Chemicals
2017

DASITGROUP | CARLO ERBA REAGENTS

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DASITGROUP | CARLO ERBA REAGENTS

CARLO ERBA Reagents has been a part of the Dasit Group since July 2013 and I am pleased and honored to lead a multinational Team that combines the virtuosity of its pharmacist founder with more than one century tradition of excellence, and the spirit of service typical of our Group.

CARLO ERBA Reagents is driven by passion, an entrepreneurial spirit, eagerness to innovate and, above all, the desire to consistently connect with and serve our Customers.

The 2017 edition of the CARLO ERBA Reagents catalog is a proof of how the pride of the past can be combined with the foresight for the future.

Special thanks to you, dear Customers, who continue to demonstrate your loyalty and affection in Europe and around the world.

Angelo Fracassi, President of DASIT Group

WEB AND CONTACTS

easy to use

quick access to products

e-commerce

DASITGROUP | CARLO ERBA REAGENTS

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www.carloerbareagents.com

- Online catalogue (research by CAS, product name, product codes) with updated specifications;
- Updated MSDS in multi-language and certificate of analysis ready to download;
- Catalogues and Brochures ready to download;
- Contacts for technical information and requests for quotation

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- To see our price list, your specific commercial conditions and all the promotional activities

PRODUCTION

CARLO ERBA Reagents ensures its customers both quality and service thanks to its modern production plants, state-of-the-art quality control labs and efficient logistics.
Its production facilities in France are IPEC 2006 compliant and have been audited by the French ANSM agency for the production and distribution of excipients and raw materials for pharmaceutical use.
Mixers, distillation columns, storage tanks, automated packaging lines and clean rooms are just some of the technologies engineered to meet the vast range of your needs.
Respect for the safety of all personnel, safeguarding the environment and vision of environmental sustainability, along with product quality, are the strategic values of CARLO ERBA Reagents.

CARLO ERBA Reagents garantisce al mercato qualità e servizio grazie a moderni impianti di produzione, laboratori di controllo qualità all'avanguardia ed un'efficiente organizzazione logistica.
I nostri stabilimenti produttivi in Francia operano in conformità alle linee guida IPEC 2006 e hanno superato l'audit dell'agenzia francese ANSM, per la produzione e la distribuzione di eccipienti e materie prime ad uso farmaceutico.
Reattori, colonne di distillazione, serbatoi per lo stoccaggio, linee automatiche di confezionamento e clean rooms sono solo alcune delle tecnologie a disposizione per soddisfare le più diverse esigenze del mercato.
Il rispetto della sicurezza di tutti gli operatori, la salvaguardia dell'ambiente e una visione di sostenibilità a livello di impatto ambientale, affiancati alla qualità dei prodotti, rappresentano dei valori strategici per CARLO ERBA Reagents.

Le groupe CARLO ERBA Reagents offre à ses clients qualité et service à travers la flexibilité de sa production et de ses installations.
Les unités de production situées en France suivent le guide IPEC 2006 pour la fabrication et la distribution des excipients à usage pharmaceutique et sont déclarées à l'ANSM selon le décret n° 2008-109 pour la production de matières premières à usage pharmaceutiques.
Mélangeurs, colonnes de distillation, cuves de stockage, lignes de conditionnement automatisées, salles blanches sont quelques-uns des équipements à notre disposition pour répondre aux besoins du marché.
Des procédures opérationnelles standardisées, des opérateurs hautement qualifiés pour une meilleure gestion des installations, des contrôles permanents de toutes les phases de la production, du conditionnement, du nettoyage sont les critères qui guident CARLO ERBA Reagents dans son activité industrielle.
Le respect des normes environnementales, de l'hygiène et de la sécurité est une des préoccupations de CARLO ERBA Reagents.

CARLO ERBA Reagents garantiza al mercado calidad y servicio gracias a modernas plantas de producción, laboratorios de control de calidad a la vanguardia y una eficiente organización logística.
Nuestros centros productivos en Francia trabajan siguiendo la guía de buenas prácticas IPEC 2006 y han sido declarados a la Agencia nacional francesa de seguridad de los medicamentos (ANSM) para la producción y distribución de excipientes y materias primas de uso farmacéutico.
Reactores, columnas de destilación, tanques de almacenamiento, líneas automáticas de envasado y salas blancas son solamente un ejemplo de las tecnologías que disponemos para satisfacer las exigencias del mercado más severas.
El respeto de la seguridad de todos los trabajadores, la protección del medio ambiente y una perspectiva de sostenibilidad en lo que se refiere al impacto ambiental, junto con la calidad de los productos, son los valores estratégicos de CARLO ERBA Reagents.

Mit modernen Produktionsanlagen, mit Labors für die Qualitätskontrolle, die dem allerneusten Stand der Technik entsprechen und einer effizienten Logistik garantiert CARLO ERBA Reagents für Qualität und Serviceleistungen auf höchstem Niveau.
Unsere Produktionsstätten in Frankreich arbeiten nach Vorgabe der IPEC 2006 Leitlinie und haben eine Zulassung der französischen Behörde ANSM für die Herstellung und den Vertrieb von Hilfsstoffen und Pharmazeutischen Rohstoffen.
Reaktoren, Destillationskolonnen, Tanks, automatische Verpackungsanlagen und Reinräume sind nur einige der eingesetzten Technologien, die es uns ermöglichen, die unterschiedlichsten Anforderungen des Marktes zufrieden zu stellen.
Die Sicherheit am Arbeitsplatz für alle Beschäftigten, der Umweltschutz und die Vision einer umweltverträglichen Produktion bilden zusammen mit der Produktqualität die strategischen Werte, die im Mittelpunkt der Unternehmensphilosophie von CARLO ERBA Reagents stehen.

QUALITY

CARLO ERBA Reagents is ISO 9001:2008 certified.
In order to best serve the market, our quality management system is improvement-driven, based on operating procedures that carefully monitor every step in the production process, from the raw material to the finished product.
This system ensures the complete traceability of all materials used in production, a timely change control process and management of technical documentation.
The entire process is carefully monitored through regularly-scheduled inspections performed by in-house staff, company officials, inspectors and end users.

CARLO ERBA Reagents è un'azienda certificata ISO 9001:2008.
Il nostro sistema di gestione della qualità è orientato al continuo miglioramento, al fine di assicurare al mercato il migliore servizio, con l'ausilio di procedure operative per il presidio di tutte le fasi del processo lavorativo, dalla materia prima al prodotto finito.
Il sistema assicura la completa tracciabilità di tutti i materiali utilizzati per la produzione, un puntuale servizio di change control e la gestione della documentazione tecnica.
L'intero processo è accuratamente monitorato da revisioni periodiche eseguite da personale dipendente, funzionari, ispettori e clienti utilizzatori.

CARLO ERBA Reagents est certifié ISO 9001:2008. Le système d'assurance qualité est basé sur la gestion des risques concernant les systèmes techniques et les sites de production, la qualification des installations adaptée à notre activité, le contrôle des procédés, les procédures de nettoyage et les méthodes analytiques.
Indépendant de la production, le département qualité gère la gestion de la documentation, le contrôle des enregistrements, la traçabilité, les audits internes, le change control, le suivi périodique des indicateurs, l'amélioration continue.

CARLO ERBA Reagents es una empresa certificada ISO 9000:2008. Nuestro sistema de calidad está basado sobre la mejora contínua para asegurar el mejor servicio al mercado gracias a la utilización de procedimientos operativos que supervisan todas las fases del proceso del trabajo, desde la materia prima hasta el producto acabado.
El sistema asegura la trazabilidad de todos los materiales utilizados para la producción, un servicio de "change control" y la gestión de la documentación técnica.
El seguimiento escrupuloso de todo el proceso se realiza a través de revisiones periódicas llevadas a cabo por nuestro personal, directivos, inspectores y clientes usuarios.

CARLO ERBA Reagents ist nach ISO 9001:2008 zertifiziert.
Unser Qualitätsmanagementsystem hat sich eine konstante Verbesserung zum Ziel gesetzt, um dem Markt Leistungen auf höchstem Niveau garantieren zu können. Erreicht wird die hohe Qualität durch Verfahren, mit denen alle Phasen des Produktionsprozesses – vom Rohstoff bis zum fertigen Produkt – kontrolliert werden.
Dieses System garantiert eine lückenlose Rückverfolgbarkeit aller in der Produktion verwendeten Materialien und Einen rechtzeitigen Änderungsprozess und die korrekte Verwaltung der technischen Dokumentation.
Der gesamte Prozess wird strikt überwacht. Dazu werden regelmäßige interne wie externe Inspektionen durch eigene Mitarbeiter, Beamten, Inspektoren und Kunden durchgeführt.

DNV·GL

MANAGEMENT SYSTEM CERTIFICATE

Certificato No./Certificate No.: 90596-2010-AQ-ITA-SINCERT
Data prima emissione/Initial date: 20 dicembre 2010
Validità/Valid: 20 dicembre 2016 - 15 settembre 2018

Si certifica che il sistema di gestione di/This is to certify that the management system of

Carlo Erba Reagents S.r.l.

Via Merendi, 22 - 20010 Cornaredo (MI) - Italy
(Riferimento al Certificato No. / Reference to Certificate No. 90598-2010-AQ-ITA-SINCERT)

È conforme ai requisiti della norma per il Sistema di Gestione/
Has been found to conform to the Management System standard:

UNI EN ISO 9001:2008 (ISO 9001:2008)

Questa certificazione è valida per il seguente campo applicativo:

Commercializzazione di prodotti chimici per l'industria e per laboratori. Commercializzazione di prodotti chimici " tailor-made" per l'industria farmaceutica, alimentare, chimica, elettronica e meccanica fine. Distribuzione, installazione ed assistenza tecnica di strumentazione e prodotti per i laboratori di analisi chimiche e per la ricerca scientifica nel campo della biologia molecolare e cellulare

(Settore EA: 29 – 12 - 19)

This certificate is valid for the following scope:

Distribution of chemical products for industries and laboratories. Distribution of "tailor-made" chemical products for pharmaceutical, food, chemical, electronic and precision mechanics industries. Distribution, installation and technical assistance of equipment and products for chemical analytical and scientific research laboratories in the field of cell and molecular biology

(EA Sector: 29 – 12 - 19)

Luogo e Data/Place and date:
Vimercate (MB), 14 dicembre 2016

ACCREDIA

Per l'Organismo di Certificazione/
For the Certification Body

Vittore Marangon
Management Representative

La validità del presente Certificato è subordinata al rispetto delle condizioni contenute nel Contratto di Certificazione/
Lack of fulfilment of conditions as set out in the Certification Agreement may render this Certificate invalid.
DNV GL Business Assurance Italia S.r.l. Via Energy Park, 14, 20871 Vimercate (MB), Italy. Tel: 039 68 99 905. www.dnvgl.it/assurance

DNV

DNV BUSINESS ASSURANCE
MANAGEMENT SYSTEM CERTIFICATE

Certificat No. / Certificate No. 170964-2015-AQ-ITA-ACCREDIA

Ceci certifie que / This is to certify that

CARLO ERBA REAGENTS SAS

Chaussée du Vexin - Parc d'Affaire des Portes - 27106 Val de Reuil - France
Zone Industrielle de Valdonne - 13124 Peypin - France

est conforme aux exigences de la norme relative aux systèmes de gestion:
has been found to conform to the management system standard:

ISO 9001:2008

La validité de ce Certificat couvre les produits ou services suivants, dans les endroits énumérés:
This certificate is valid for the following scope, at the mentioned sites:

Développement, production et vente de réactifs et de produits chimiques pour les laboratoires et l'industrie, recyclage de solvants, produits et mélanges à façon, distribution de consommables et de matériel de laboratoire
(Secteur EA : 12 - 29)

Development, production and sale of reagents and chemicals for laboratories and industry, recycling of solvents, tailor made chemicals and mixtures, distribution of laboratory consumables and equipment
(Sector EA : 12 - 29)

Date Première Edition/Initial Certification Date:
2012-05-09

Ce Certificat est valable jusqu'au:
This Certificate is valid until:
2018-05-09

La vérification a été effectuée sous la supervision de / The audit has been performed under the supervision of:

Patrick Antoine Drouet
Lead Auditor

ACCREDIA

Lieu et Date/Place and Date:
Vimercate (MB), 2015-05-19

Pour l'Organisme de Certification:
For the Certification Body:

Vittore Marangon
Management Representative

La validité du présent Certificat est subordonnée à l'égard des conditions contenues sur le Contrat de Certification:
Lack of fulfilment of conditions as set out in the Certification Agreement may render this Certificate invalid.
DNV GL Business Assurance Italia S.r.l. - Via Energy Park, 14, 20871 Vimercate (MB), Italy. Tel: 039 68 99 905. www.dnvgl.it/assurance

SERVICE

CARLO ERBA Reagents is specialized in the manufacture of custom-tailored products for industry and laboratories. All customized products come with a certificate of analysis and a safety data sheet in compliance with current regulations.
Product customization may involve the formulation of new mixtures, the introduction of new qualitative parameters or the use of special packing and packaging to meet on-demand customer specifications.
CARLO ERBA Reagents supplies solvents in reusable, stainless steel 'shuttle' drums to optimize the quality and handling of its solvents as well as to eliminate the need to dispose of empty drums. This solution is ideally-suited to applications that require large amounts of solvents.
Lastly, CARLO ERBA Reagents offers an outsource research service for chemical products that are especially difficult to find; the advantages for the requesting party are that the process is managed entirely by CARLO ERBA Reagents, from the research process to practical handling of customs clearance, including REACH IT and currency exchange.

CARLO ERBA Reagents è un'azienda specializzata nella realizzazione di prodotti "Tailor Made" per l'industria e il laboratorio. I nostri prodotti "Tailor Made" sono sempre corredati da un certificato di analisi e una scheda di sicurezza conformi alle normative vigenti.
I termini di personalizzazione del prodotto possono riguardare la formulazione di nuove miscele, l'introduzione di nuovi parametri qualitativi oppure la fornitura in particolari confezionamenti e imballaggi su specifica richiesta del cliente.
Inoltre, CARLO ERBA Reagents offre anche il servizio di fornitura solventi in contenitori navetta di acciaio inox, ideali per ottimizzare la qualità dei solventi, la loro manipolazione e i costi di smaltimento dei vuoti. Questa soluzione è particolarmente indicata in applicazioni con consumi importanti di solventi.
Infine, CARLO ERBA Reagents mette a vostra disposizione un servizio outsourcing di ricerca prodotti chimici particolari non facilmente reperibili sul mercato, che ha il vantaggio per il richiedente di essere completamente gestito, dal processo di ricerca alla gestione delle pratiche di sdoganamento, fino al REACH IT e al cambio valuta.

Depuis plusieurs années, CARLO ERBA Reagents est reconnu comme étant le spécialiste du service à façon pour l'industrie et le laboratoire. Nous développons, en partenariat avec nos clients, un service sur mesure : expérience, flexibilité et adaptabilité sont les mots clés pour répondre à leurs attentes et respecter leurs exigences.
Nous fabriquons vos mélanges spécifiques (organiques ou aqueux), vos solutions titrées, vos phases éluantes, ...dans le conditionnement de votre choix, avec un étiquetage et une FDS conformes aux réglementations en vigueur, un certificat d'analyses.
CARLO ERBA Reagents propose également des conditionnements navettes en inox pour optimiser la qualité du solvant et la gestion des déchets d'emballage. Ce type de conditionnement répond au besoin des clients qui consomment de gros volumes de solvants, au laboratoire ou en production.
CARLO ERBA Reagents met à votre disposition un service Out-Sourcing afin de de vous permettre d'externaliser vos recherches de produits chimiques rares et vous décharger de la gestion de REACH IT, des paiements en devises étrangères, du dédouanement, ...

CARLO ERBA Reagents es una empresa especializada en la fabricación de productos a medida para la industria y el laboratorio. Nuestros productos a medida van siempre acompañados de certificado de análisis y ficha de seguridad conformes con las normativas vigentes.
La personalización del producto puede referirse a la formulación de nuevas mezclas, a la introducción de nuevos parámetros de calidad o bien al suministro de envases y embalajes especiales según las especificaciones del cliente.
Además, CARLO ERBA Reagents ofrece también el servicio de suministro de disolventes en contenedores retornables de acero inoxidable, ideales para optimizar la calidad de los disolventes, su manejo y los costes de eliminación de envases.
Esta solución es particularmente indicada en aplicaciones con consumos importantes de disolventes.
Por último, CARLO ERBA Reagents propone un servicio externalizado de búsqueda de productos químicos raros, no fácilmente disponibles en el mercado, que para el cliente tiene la ventaja de ser completamente gestionado por nosotros, del proceso de búsqueda a la gestión de los trámites aduaneros, el REACH IT y el cambio de divisa.

CARLO ERBA Reagents ist auf die Herstellung kundenspezifischer Produkte für die Industrie und Labore spezialisiert. Alle von uns hergestellten Produkte werden mit einem Analysezertifikat und einem Sicherheitsdatenblatt geliefert, die den Vorgaben der geltenden Gesetzgebung entsprechen.
Kundenspezifische Vorgaben können zur Formulierung neuer Gemische, zur Einführung neuer Qualitätsparameter führen oder auch dazu, dass Produkte in speziell vom Kunden angefragten Sonderverpackungen und Verpackungsarten angeliefert werden.
CARLO ERBA Reagents bietet außerdem einen Lieferservice für Lösungen in Mehrwegbehältern aus Edelstahl, die nicht nur ideal sind, um die Qualität der Lösungen und deren Handhabung zu optimieren, sondern auch die Kosten für die Entsorgung von Leergut senken. Die Mehrwegbehälter eignen sich besonders gut für Anwendungen, in denen Lösungen in großen Mengen erforderlich sind.
Zu den weiteren Leistungen von CARLO ERBA Reagents gehört ein Outsourcing-Service für die Suche nach besonderen Chemikalien, deren Beschaffung auf dem Markt aufwändig ist. Dieser Service bietet dem Kunden den Vorteil, dass die gesamte Prozedur von uns verwaltet wird, von der Recherche über die Abwicklung der Zollformalitäten bis zur Registrierung über das Portal REACH-IT und die Währungsumrechnung.

LABWARE

Proponiamo un'ampia gamma di prodotti di base per il laboratorio: dalla piccola strumentazione di uso comune - come agitatori, bagni termostatati, centrifughe, stufe - a materiale in vetro ed in plastica per la manipolazione, preparazione e conservazione di soluzioni di ogni genere.
Il range di prodotti include inoltre una serie di prodotti a marchio CARLO ERBA Reagents per specifiche applicazioni di laboratorio:
IDRIMETER® - kit affidabili e precisi per l'analisi delle acque chiare e di scarico, sia manuali per analisi in loco che strumentali in abbinamento con spettrofotometro dedicato;
AUSILAB® - un range completo di detergenti/disinfettanti per il lavaggio manuale ed automatico della vetreria di laboratorio in qualsiasi ambito analitico;
CARTINE INDICATRICI di pH - disponibilità di un'ampia gamma di tornasole, indicatori misti ad alta sensibilità in rotoli, indicatori tricromatici in rotolo, indicatori in strisce con scala cromatica incorporata e non-incorporata.

Nous proposons une gamme étendue de produits de base pour le laboratoire: des instruments - mélangeurs, bains thermostatiques, centrifugeuses, incubateurs ... – jusqu'au consommable en verre et plastique pour la manipulation, la préparation et le stockage de toutes les solutions de qualités.
Notre gamme de produits comprend également des produits de marque CARLO ERBA Reagents pour des applications de laboratoire spécifiques:
IDRIMETER® - kits fiables et précis pour l'analyse de l'eau, manuels pour l'analyse sur le terrain ou instrumentaux à utiliser conjointement avec un spectrophotomètre dédié
AUSILAB® - une gamme complète de détergents / désinfectants appropriés pour le lavage manuel et en auto laveurs pour tous les domaines de l'analyse
PAPIERS INDICATEURS pH - une grande variété de papiers indicateurs est disponible: tournesol, en rouleaux à haute sensibilité, en rouleaux trichromiques, en bandes avec échelle chromatique incorporée, ou en bandes avec échelle chromatique non incorporée indélébile.

Proponemos una amplia gama de productos básicos para el laboratorio: desde el pequeño utillaje de uso común - como agitadores, baños termostáticos, centrífugas, estufas - hasta material de vidrio y plástico para la manipulación, preparación y conservación de soluciones de todo tipo.
La gama de productos incluye además una serie de productos con marca CARLO ERBA Reagents para específicas aplicaciones de laboratorio:
IDRIMETER® - kits fiables y de precisión para el análisis de aguas claras y efluentes, tanto manuales, para análisis in situ, como instrumentales, en combinación con espectrofotómetro específico;
AUSILAB® - un surtido completo de detergentes/desinfectantes para la limpieza manual y automática de los vidrios de laboratorio en cualquier ámbito analítico;
PAPEL INDICADOR DE pH – disponibilidad de una amplia gama de papeles indicadores: tornasol, rollos de papel pH mixto de alta sensibilidad, rollos de papel pH tricromático, tiras con escala cromática incorporada y no incorporada.

CARLO ERBA Reagents bietet eine breite Produktpalette für die Laborausstattung, von Kleingeräten für den täglichen Bedarf, wie Rührer, thermostatgesteuerte Bäder, Zentrifugen und Öfen, bis hin zu Verbrauchsmaterial und Laborzubehör aus Glas und Kunststoff für die Handhabung, die Vorbereitung und die Aufbewahrung von Lösungen aller Art.
Das Produktsortiment umfasst außerdem drei Produktreihen der Marke CARLO ERBA Reagents für spezifische Laboranwendungen:
IDRIMETER® - Zuverlässige und präzise Tests für die Analyse von Frischwasser und Abwasser für die manuelle Analyse vor Ort und für die Analyse mit einem entsprechenden Spektrophotometer.
AUSILAB® - Komplette Produktreihe mit Reinigungs - und Desinfektionsmitteln für das manuelle und automatische Waschen von Laborzubehör aus Glas für Analysen aller Art.
pH-INDIKATORPAPIER - Umfangreiches Angebot an pH-Indikatorpapier: Lackmuspapier, hochempfindliche gemischte Indikatoren auf der Rolle, dreifarbige Indikatoren auf der Rolle, Teststreifen mit integrierter und nicht integrierter Farbskala.

CARLO ERBA Reagents offers a robust selection of basic laboratory products: from commonly-used small instruments - like agitators, thermostatically-controlled baths, centrifuges and heaters - to glass and plastic materials for the handling, preparation and storage of all kinds of solutions.
The range of products also includes a series of CARLO ERBA Reagents-branded products for specific laboratory applications:
IDRIMETER® - accurate, reliable kits for analysis of freshwater and wastewater; manual type for in-field analyses and instrumental type with dedicated spectrophotometer;
AUSILAB® - a complete range of detergents and disinfectants for manual and automatic washing of laboratory glassware for all types of analyses;
pH INDICATOR PAPERS – a wide range of test strips: litmus, high sensitivity mixed indicators on rolls, three-color indicators on reels and indicator strips with and without reference color scale.

LABELS

1. PRODUCT NAME
2. PRODUCT CODE
3. SIZE
4. GRADE
5. APPLICATION
6. GHS HAZARD SYMBOLS
7. GHS REFERENCES OF WARNING AND PRECAUTIONARY
8. LOT NUMBER AND EXPIRATION DATE
9. INTERNATIONAL IDENTIFICATION
10. MAIN TECHNICAL SPECIFICATION
11. BARCODE TO READ PRODUCT CODE AND BATCH NUMBER

GHS is an international system designed to harmonize the classification, labeling and packaging of chemicals, transposed into the European Community as EC Regulation No. 1272/2008 and known as CLP (Classification, Labeling and Packaging).
The regulation, in effect since January 20th, 2009, defines a new system of classification, labeling and packaging of substances and mixtures. The hazard symbols in use under the previous 67/548/EEC directive have been replaced with new CLP pictograms.
All CARLO ERBA Reagents-branded substances and mixtures comply with the current regulations.

Il GHS è un Sistema Internazionale creato con lo scopo di armonizzare la classificazione, l'etichettatura e l'imballaggio dei prodotti chimici. All'interno della Comunità Europea, è stato recepito come Regolamento (CE) n. 1272/2008, chiamato CLP (Classification, Labelling and Packaging).
Questo regolamento, in vigore dal 20 gennaio 2009, definisce un nuovo sistema di classificazione, etichettatura e confezionamento di sostanze e miscele. I simboli di pericolo previsti dalla vecchia direttiva 67/548/CEE sono stati sostituiti dai nuovi pittogrammi previsti dal CLP.
Tutte le sostanze e le miscele a marchio CARLO ERBA Reagents sono commercializzate in conformità alla normativa vigente.

Le GHS est un système international valable pour tous les acteurs du marché dont le but est l'harmonisation de la classification et de l'étiquetage des produits chimiques (étiquettes et FDS). Au niveau de l'Union Européenne, il a été transposé en règlement 1272/2008, appelé CLP (Classification,Labelling and Packaging) Ce règlement, entré en vigueur depuis le 20/01/2009, définit un nouveau système de classification d'étiquetage et de packaging pour les substances et les mélanges avec l'introduction de nouveaux symboles de danger qui remplacent ceux de la Directive Européenne 67/548/CEE précédemment en vigueur.
CARLO ERBA Reagents a mis en place cette directive pour toutes les substances et mélanges fabriqués sous sa marque.

El GHS es un sistema internacional creado con el objetivo de armonizar la clasificación, el etiquetado y el envasado de los productos químicos que fue incorporado por la Comunidad Europea en el Reglamento (CE) nº 1272/2008, denominado CLP (de sus siglas en inglés, Classification, Labelling and Packaging).
Este reglamento, en vigor desde el 20 de enero de 2009, define un nuevo sistema de clasificación, etiquetado y envasado de sustancias y mezclas. Los símbolos de peligro previstos por la anterior Directiva 67/548/CEE fueron sustituidos por los nuevos pictogramas previstos por el CLP.
Todas las sustancias y mezclas de marca CARLO ERBA Reagents que se comercializan cumplen la normativa vigente.

Das Globale Harmonisierte System (GHS) ist ein internationales System zur Vereinheitlichung der Klassifizierung, Etikettierung und Verpackung von Chemikalien. Es wurde mit der EG-Verordnung Nr. 1272/2008, welche auch als CLP-Verordnung (Classification, Labelling and Packaging) bekannt ist, in der europäischen Gemeinschaft umgesetzt.
Diese Verordnung, die seit dem 20. Januar 2009 in Kraft ist, legt ein neues System für die Klassifizierung, Etikettierung und Verpackung von Stoffen und Gemischen fest. Die von der Vorgängerrichtlinie 67/548/EWG festgelegten Gefahrensymbole wurden durch die neuen Piktogramme der CLP-Verordnung ersetzt.
Alle Stoffe und Gemische der Marke CARLO ERBA Reagents werden unter Beachtung der geltenden Vorschriften in den Handel gebracht.

CERTIFICATE OF ANALYSIS

All certificates of analysis for CARLO ERBA Reagents products are available on its website at www.carloerbareagents.com by entering the lot number and the product code printed on the label.
The expiration date for each reagent is printed on both the label and the certificate of analysis. This information applies to products stored in their original and intact packaging, stored away from heat and light, as specified in the safety data sheet.

Tutti i certificati di analisi dei nostri prodotti sono disponibili e reperibili sul sito www.carloerbareagents.com inserendo il codice e il numero di lotto riportato sull'etichetta.
La data di scadenza, attribuita ad ogni nostro reagente, è riportata sia sull'etichetta che sul certificato di analisi. Tale informazione è valida per i prodotti conservati nel loro imballo originale ed integro, al riparo dalla luce e dal calore, o come da indicazioni riportate sulla relativa scheda di sicurezza.

Tous les certificats d'analyses sont disponibles sur le site www.carloerbareagents.com simplement en indiquant le code produit et le numéro du lot noté sur l'étiquette du produit acheté.
La date de péremption est toujours mentionnée sur l'étiquette et le certificat d'analyse. Ces indications sont valables pour des produits dans leur emballage d'origine, non ouverts, conservés à l'abri de la chaleur, de la lumière et de l'humidité, et selon les indications précisées sur la FDS.

Todos los certificados de análisis de nuestros productos se pueden encontrar y consultar en la web www.carloerbareagents.com, introduciendo el código y el número de lote indicado en la etiqueta.
La fecha de caducidad, atribuida a cada reactivo de nuestra producción, aparece indicada tanto en la etiqueta como en el certificado de análisis. La validez de esas informaciones se refiere a productos conservados en el embalaje original e íntegro , protegidos de la luz y del calor o según las indicaciones especificadas en la correspondiente ficha de seguridad.

Alle Analysezertifikate unserer Produkte sind auf unserer Webseite www.carloerbareagents.com verfügbar und können durch Eingabe der Artikelnummer und der Chargennummer, welche auf dem Etikett des Produktes stehen, aufgerufen und heruntergeladen werden.
Das Haltbarkeitsdatum unserer Reagenzien steht auf dem Etikett sowie auf dem Analysezertifikat. Die Angabe gilt nur für Produkte, die in ihrer ungeöffneten Originalverpackung an einem vor Licht und Wärme geschützten Ort und unter Beachtung der Angaben im dem Sicherheitsdatenblatt aufbewahrt werden.

1. PRODUCT
2. CODE
3. LOT NUMBER
4. EXPIRATION DATE
5. CODE OF THE METHOD USED FOR THE QUALIFICATION OF THE PRODUCT
6. CERTIFICATE EDITION NUMBER WHICH CHANGES WHEN GUARANTEED SPECIFICATIONS ARE UPDATED
7. DESCRIPTION OF THE QUALITY CONTROL TESTS THE PRODUCT UNDERGOES
8. UNIT OF MEASURE
9. GUARANTEED PRODUCT SPECIFICATIONS
10. TEST RESULTS OBTAINED FOR THE SPECIFIC LOT, AND FOR EACH SINGLE TEST, IN COMPLIANCE WITH INTERNATIONAL STANDARDS, IF APPLICABLE
11. APPROVAL DATE FOR TEST RESULTS

Carlo Erba Reagents S.A.S.
Parc d'Activités des Portes
Chausée du Vexin - BP 616
27106 Val de Reuil Cedex
Tél.:02.32.09.20.00
Fax 02.32.09.20.20

Z.I DE VALDONNE - BP 4
13124 PEYPIN
Tél.:04.42.32.41.41
Fax 04.42.72.41.62

Carlo Erba Reagents S.r.l.
Via R. Merendi, 22
20010 Cornaredo (Mi)
Tel. 02 93 991 90 Fax 02 93 991 001

ISO 9001: 2008

Certificate of Analysis

1 **PRODUCT** : Sodium chloride ERBApharm-According to pharmacopoeia: Ph.Eur.-FU-Ph.Franc.-BP-DAB-USP-JP

2 **CODE** : 368253

3 **LOT N°** : V6C589176E

4 **EXPIRING DATE** : 2019/05

5 **METHOD** : 6572

6 **EDITION** : 6

7 TEST	8 U.M.	9 SPECIFICATION	10 RESULT
Description	-	White crystalline powder	Conform
Identification	-	Positive	Positive
Appearance of solution	Ph.Eur.	Conform	Conform
Acidity or alkalinity	Ph.Eur.	Conform	Conform
Residue solvents	USP	Conform	Conform
Barium	Ph.Eur.	Conform	Conform
Iodide	Ph.Eur.	Conform	Conform
Ferrocyanide	Ph.Eur.	Conform	Conform
Nitrite	Ph.Eur.	Conform	Conform
Loss on drying	%	<= 0.5	0.04
Mg,alkal.earth met.(Ca)	ppm	<= 100	<100
Bromide	ppm	<= 100	<100
Phosphate	ppm	<= 25	<25
Heavy metals (Pb)	ppm	<= 3	<3
Sulphate	ppm	<= 200	<200
Al	ppm	<= 0.2	<0.2
As	ppm	<= 1	<1
Fe	ppm	<= 2	<2
K	ppm	<= 500	<500
Assay (argentimetric)	% s.s.	99.0 ÷ 100.5	100.3

Our products should be used in compliance with the current legislation, raw material for pharmaceutical uses included.

11 **Approve Date** : **02/05/2016**

Not signed electronically issued document
QUALITY CONTROL RESPONSIBLE
B. COULANGE (VDR)

MATERIAL SAFETY DATA SHEET

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 23.03.2016 Version number 3 Revision: 10.03.2016

Trade name: Acetonitrile

SECTION 1: Identification of the substance/mixture and of the company/undertaking

· 1.1 Product identifier
· Molecular formula: C2 H3 N
· Structure formula: C H3 - C N
· Trade name: Acetonitrile
· MSDS number: CH0080
· CAS Number:
75-05-8

· EC number:
200-835-2
· Index number:
608-001-00-3
· Registration number 01-2119471307-38
· 1.2 Relevant identified uses of the substance or mixture and uses advised against
No further relevant information available.
· Sector of Use
SU3 Industrial uses: Uses of substances as
SU2a Mining, (without offshore industries)
SU2b Offshore industries
SU9 Manufacture of fine chemicals
SU10 Formulation [mixing] of prep
Scientific research and dev
PROC4 Use in batch and other process (synthesis) where opportunity for exposure arises
PROC8a Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities
PROC8b Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities
PROC9 Transfer of substance or preparation into small containers (dedicated filling line, including weighing)
PROC15 Use as laboratory reagent
· Environmental release category
ERC1 Manufacture of substances
ERC2 Formulation of preparations
ERC4 Industrial use of processing aids in processes and products, not becoming part of articles
ERC6a Industrial use resulting in manufacture of another substance (use of intermediates)
ERC6b Industrial use of reactive processing aids
ERC7 Industrial use of substances in closed systems
· Article category AC1 Vehicles
· Application of the substance / the mixture Chemical products for laboratory

(Contd. on page 2)

Based on the new CLP classification system, CARLO ERBA Reagents provides a safety data sheet for each product in compliance with Article 31 of the REACH Regulation No. 1907/2006 and amended by Commission Regulation (EU) No. 453/2010 and Commission Regulation (EU) No. 830/2015.
All CARLO ERBA Reagents safety data sheets are updated quarterly and are available on its website: www.carloerbareagents.com.

Sulla base del nuovo sistema di classificazione CLP, CARLO ERBA Reagents redige per ogni prodotto una scheda di sicurezza conforme all'articolo 31 del Regolamento n° 1907/2006 (REACH) ed ai successivi Regolamenti (UE) n°453/2010 e (UE) n° 830/2015.
Tutte le nostre schede di sicurezza vengono aggiornate quattro volte all'anno e sono disponibili sul nostro sito www.carloerbareagents.com.

CARLO ERBA Reagents fournit, pour toutes les substances et préparations dangereuses, une fiche de données de sécurité, conformément à l'article 31 du règlement n°1907/2006 (REACH) et à l'annexe I du règlement (UE) n°453/2010 et n° 830/2015.
Toutes les fiches de données de sécurité, mises à jour 4 fois par an et ponctuellement si besoin, sont consultables sur le site www.carloerbareagents.com.

Basándose en el nuevo sistema de clasificación CLP, CARLO ERBA Reagents dispone para cada producto de una ficha de seguridad conforme con el artículo 31 del Reglamento (CE) n° 1907/2006 (REACH) y con los sucesivos Reglamentos (UE) n°453/2010 y (UE) n° 830/2015.
Todas nuestras fichas de datos de seguridad, que pueden consultarse en nuestro sitio web www.carloerbareagents.com, se actualizan cuatro veces al año.

Auf der Grundlage des neuen CLP Klassifizierungssystems erstellt CARLO ERBA Reagents für jedes Produkt ein Sicherheitsdatenblatt, das Artikel 31 der REACH-Verordnung 1907/2006 und den späteren EU-Verordnungen 453/2010 und 830/2015 entspricht.
Alle unsere Sicherheitsdatenblätter werden quartalsweise aktualisiert und stehen auf unserer Webseite www.carloerbareagents.com zur Verfügung.

PACKAGING

The consequences of a shipping accident or one caused by mishandling hazardous chemical products can be critical for both the health of workers and for the environment. CARLO ERBA Reagents chooses packaging materials for its products that are best-suited to safeguarding the user, facilitating their use and reducing damage to a minimum in case of accidents during shipping. All packaging for hazardous chemicals is certified in compliance with international regulations and subjected to tests for chemical and physical compatibility to ensure optimal product quality over time.

Le conseguenze di un incidente nel trasporto o causato da errori nella manipolazione di un prodotto chimico pericoloso possono essere importanti sia per la salute degli operatori che per l'ambiente. CARLO ERBA Reagents sceglie per i propri prodotti i materiali di confezionamento più indicati per tutelare l'utilizzatore, agevolarne l'uso e ridurre al minimo i danni in caso di incidenti durante il trasporto. Tutti gli imballi dei prodotti chimici pericolosi sono omologati secondo le normative internazionali e sottoposti a prove di compatibilità chimico-fisica per garantire la qualità del prodotto nel tempo.

Les conséquences d'un incendie, d'une explosion, d'une inhalation de produits dangereux ou d'un accident de transport sont potentiellement importantes pour la santé humaine, les biens matériels et l'environnement. CARLO ERBA Reagents utilise des emballages adaptés permettant de limiter les impacts dans ces situations à hauts risques, homologués pour le transport des matières dangereuses (ADR, UN). CARLO ERBA Reagents propose donc une grande variété de types d'emballages sélectionnés en fonction des contraintes réglementaires, physico-chimiques et d'utilisation.

Las consecuencias de un accidente durante el transporte o debidas a errores en la manipulación de un producto químico peligroso pueden ser graves tanto para la salud de los operadores como para el medio ambiente. CARLO ERBA Reagents escoge para sus productos los materiales de envasado más indicados para proteger al usuario, facilitar su uso y reducir al mínimo los daños en caso de accidentes durante el transporte. Todos los envases de los productos químicos peligrosos están homologados según las normativas internacionales y han sido sometidos a pruebas de compatibilidad químico-física para garantizar la calidad del producto a lo largo del tiempo.

Unfälle, die durch den Transport oder durch Handhabung eines Gefahrstoffs entstehen, können schwere Folgen für die Gesundheit des Personals und die Umwelt haben. Die Verpackungen der Produkte von CARLO ERBA Reagents bestehen aus Materialien, die maximalen Schutz für das Personal bieten, einen einfachen Gebrauch gewährleisten und die Schäden bei Unfällen während des Transports auf ein Minimum reduzieren. Alle Verpackungen chemischer Gefahrenstoffe sind nach Vorgabe internationaler Vorschriften typgeprüft und auf ihre chemische und physikalische Eignung getestet, um die Qualität des darin verpackten Produkts zu gewährleisten.

CARLO ERBA

CARLO ERBA

PRODUCT SELECTION GUIDE

All our products are classified according to their purity grades and suitability for being used in classical or instrumental analytical fields or industrial preparations.

A color grade system assigned accordingly helps the customer to find the right product for each application.

RS – Specific Grade Reagents

RS

High purity Solvents, Acids and Reagents specifically designed to be used in the following instrumental techniques:

- Metal Trace Analysis: Superpure Acids and Ultrapure Acids for sample mineralization, Standards Solutions for AAS, ICP-OES and ICP-MS for instrumental calibration
- Liquid Chromatography: Solvents suitable for UHPLC-MS, LC-MS, HPLC GOLD UltraGradient Grade, HPLC PLUS Gradient Grade, HPLC Isocratic Grade, HPLC Preparative, Ion Chromatography Standard Solution, Ion Pair Chromatography Reagents, Silica Gel for Chromatography available in different mesh size.
- Gas Chromatography: Solvents suitable for GC HEADSPACE, ATRASOL™ for organic trace analysis and PESTIPUR™ for residue analysis
- Spectroscopy UV-vis/IR: SPECTROSOL™ solvents
- Organic Synthesis: Anhydrous and Deuterated Solvents
- Karl Fischer: ERBAqua KF Reagents for coulometric & volumetric titration
- Food Analysis: Specific Reagents, acids, bases and Kjeldahl catalysts specific for food matrix analysis
- Microscopy: Fixatives, Solvents, Embedding media, Staining Solutions, Dyes, Mounting Media and Immersion Media specific for Histology, Hematology and Cytodiagnosis
- Conductivity: standard solutions
- Electronic Application: MOS, VLSI and RSE quality according to electronic production processes requirements
- Reference Standards: Density, Refractive index, Melting point, Osmolality, Brix, Colour

RPE – Analytical Grade Reagents

RPE

Standard grade in the laboratory mostly compliant with ACS and/or ISO. Many products also comply with various pharmacopoeias, including BP, EP and USP for analytical purposes.

- Solvents, Acids, Salts, and a wide range of products are guaranteed for analytical purposes
- Volumetry: titrated solutions ready-to-use or concentrated in NORMEX vials
- pHmetry: pH buffer solutions with and without color indicator, available in different size and packaging
- Indicators: pure substances and ready to use indicating solutions all provided with their color index

ERBApharm – Pharmaceutical grade Products

ERBApharm

Raw materials and/or excipients intended for the pharmaceutical production.
For our ERBApharm grade pharmacopoeia products we specify level of compliance (e.g. according to pharmacopoeia: Ph.Eur.-USP-FU.

- Acids, Bases, Solvents, Salts, Organic and Inorganic substances according to Pharmacopoeia. A complete line of titrated solutions prepared with raw materials according to Pharmacopoeia.

RE – Technical Grade Reagents

RE

Purified commercial products used in many chemicals laboratories and industries

- Acids, Bases, Solvents, Salts, Organic and Inorganic substances provided with guaranteed purity for the basic applications in the industry and laboratory

HOW TO READ THE CATALOGUE

PRODUCT NAME

TRANSPORT CLASSIFICATION

MET

Methanol

Metanolo • Méthanol • Metanol

CH_3OH
Molecular Weight: 32,04
CAS: 67-56-1
EEC-N: 200-659-6

Classification transport
ONU: 1230
Transport Hazard class: 3
Packing group II

INTERNATIONAL CLASSIFICATION

Methanol > RS - For LC/MS

Description ..... Clear colourless liquid
Colour ..... ≤ 10 APHA
Identification (I.R.)..... Conform
Refractive index at 20°C..... 1.327 ÷ 1.331
Water (K.F.) ..... ≤ 200 ppm
Residue on evaporation ..... ≤ 2 ppm
Acidity ..... ≤ 0.0003 meq/g

Alkalinity..... ≤ 0.00006 me
Assay (GLC) ..... ≥ 99.9
Transmission UV (1cm, ref water)
At 210 nm ..... ≥ 3
At 225 nm ..... ≥ 6
At 235 nm ..... ≥ 8
At 250 nm ..... ≥ 9

APPLICATION

Code	Size	Packaging
414831	1 l	Glass bottle
414832	2.5 l	Glass bottle

Filtered through 0.1 µm membrane. Suitable for ULC-MS

PRODUCT CODE

Methanol > RS - For HPLC - GOLD - Ultragradient

Description ..... Clear liquid
Identification ..... Positive
Colour (APHA) ..... ≤ 10
Density at 20°C ..... 0.7910 ÷ 0.7930
Refractive index at 20°C. 1.3270 ÷ 1.3300
Distillation range ..... 64.1 ÷ 65.1 °C
Water (K.F.) ..... ≤ 0.02 %

Residue on evaporation ..... ≤ 5 ppm
Carbonyle compounds (CH3COCH3) ... ≤ 2 ppm
Substances reducing KMnO4 (O)...≤ 2 ppm
Acidity ..... ≤ 0.0003 meq
Alcalinity..... ≤ 0.00006 m
Ethanol ..... ≤ 5

Code	Size	Packaging
412721	1 l	Glass bottle
[illegible]	2.5 l	[illegible]

COMMERCIAL INFORMATION

UNIT SIZE

PACKAGING

Since the chemical specifications of our products are subject to change, for technical evaluations please see the updated specifications on our website at www.carloerbareagents.com.

DANGER CLASSIFICATION

SYNONYM

Synonym:
Methyl alcohol

Danger
H225-H301-H311-H331-H370
P210-P241-P264-P303+P361+P353-P304+P340-P403+P235

RS

GRADE

eq/g	≥ 260 nm ..... ≥ 98 %	**Metals compounds**
5 %	**Fluorescence (quinine)**	Al ..... ≤ 50 ppb
	At 254 nm ..... ≤ 1 ppb	Fe ..... ≤ 50 ppb
0 %	At 365 nm ..... ≤ 1 ppb	Na ..... ≤ 50 ppb
5 %	**HPLC gradient**	Ca ..... ≤ 50 ppb
5 %	**Test LC-MS TIC (50-2000m/z) ESI (+)**	Mg ..... ≤ 50 ppb
5 %	Sensitive Impurities (reserpine) ..... ≤ 50 ppb	K ..... ≤ 50 ppb

Notes

SPECIFICATIONS

RS

m	Assay (GLC) ..... ≥ 99.9 %	at 225 nm ..... ≥ 65 %
20	**Fluorescence**	at 235 nm ..... ≥ 85 %
	at 254 nm ..... ≤ 1 ppb	at 240 nm ..... ≥ 90 %
n	at 365 nm ..... ≤ 1 ppb	at 250 nm ..... ≥ 95 %
g/g	**Trasmittance**	at 260 nm ..... ≥ 98 %
eq/g	at 210 nm ..... ≥ 30 %	**Functionality for HPLC**
0 ppm	at 220 nm ..... ≥ 55 %	HPLC Gradient ..... Passed test

Notes

NEW PRODUCTS

More than 600 new items including:

UHPLC-MS range: guaranteeing lot to lot consistency

GC-Headspace range: *for organic volatile impurities analysis*

MTHP (4-Methyltetrahydropyran): *an alternative to THF*

Analytical standards according to Pharmacopoeia for UV spectrophotometry and for ICP

ERBAqua range: or Karl Fischer volumetric and coulometric analysis

Standards for Color, Density, Refractive Index, Osmolality analysis

A wider choice of packaging suitable for your needs

PRODUCT APPLICATIONS

Tailor made

Chemicals such as you imagine

CARLO ERBA Reagents draws on its vast experience and production flexibility to manufacture tailormade products for the industry and laboratories.

- Custom mixture
- Purification
- Custom packaging
- Deliveries in bulk tanks and isotanks
- Shuttle service
- Analytical control
- Batch management
- Quality assurance

DASITGROUP | CARLO ERBA REAGENTS

www.carloerbareagents.com

LIQUID CHROMATOGRAPHY

Leader in the market of solvents for chromatography and trace analysis, CARLO ERBA Reagents extended its range of solvents for HPLC in order to satisfy the ever increasing demand requirements in terms of equipment and detection methods, particularly for impurities which, by interaction, can affect the result's reliability.
Our solvents for HPLC meet perfectly the requirements of this analytical technique by guaranteeing the optimal specifications on the following elements: purity, non-volatile residue content and UV transmission.

UHPLC-MS Solvents

The UHPLC-MS is certainly the chromatographic technique for users who, besides being on the lookout for the best analytical performances, works at very high pressure, with minimum solvent consumption and guarantee of resolution and reproducibility of results. CARLO ERBA Reagents, recognized as a leading company in the manufacture of solvents for chromatography, is always attuned to the market needs and has developed a specific range of solvents dedicated to solvents for UHPLC-MS in order to meet the quality requirements of this refined analytical technique.
Our solvents are characterized by:
- Purity higher than 99.95 %
- High UV transmittance
- Excellent baseline quality in gradient, tested specifically for UHPLC
- Test with reserpine (30 < ppb), specific for LCMS
- Low content in inorganic and metallic ions
- Non volatile residue content less than 1 ppm
- Filtration at least 0.2 or 0.1 µm
- Packaged in amber glass bottles pretreated with 1.1-difluoroethane to reduce significantly the potential formation of metals adduct

Description	Notes	Size	Code	Page
Acetonitrile		1 l	412041	129
Acetonitrile		2.5 l	412042	129
Methanol		1 l	414941	455
Methanol		2.5 l	414942	455
Water		1 l	412091	728
Water		2.5 l	412092	728

LC-MS Solvents

Liquid chromatography coupled with mass spectrometry is a recently developed technique which is suitable for the analysis of fairly polar, non-volatile and thermally stable compounds. It allows the separation and characterization of many more compounds than GC-MS chromatography and also provides information on the molecular weight and structure of the HPLC peaks. The significant advantages of this combined technique has led to its widespread use in many analytical fields, particularly in the pharmaceutical, environmental and biotechnological sectors.
CARLO ERBA Reagents guarantees specifications of a high-performance LC-MS solvents:
- High purity, low acidity, alkalinity and residue, ideal fluorescence, absorbance/transmittance and gradient test
- Low metal content, in the order of ppb, in order to prevent interactions with ionized species in the mass analyzer
- LC-MS suitability: no signal is greater than the molecular peak of reserpine (609 amu) at the concentration of 30 ppb, in a range from 50 to 2000 amu
- Packaged in amber glass bottles pretreated with 1.1-difluoroethane to reduce significantly the potential formation of metals adduct

Description	Notes	Size	Code	Page
Acetonitrile		1 l	412341	129
Acetonitrile		2.5 l	412342	129
Ethyl acetate		1 l	448383	320
Ethyl acetate		2.5 l	448384	320
Methanol		1 l	414831	455
Methanol		2.5 l	414832	455
Propan-2-ol		1 l	415183	573
Propan-2-ol		2.5 l	415184	573
Water		1 l	412111	728
Water		2.5 l	412112	728

LC-MS Acids, Salts and Blends

CARLO ERBA Reagents proposes a wide range of acids and salts, specifically tested for LC-MS coupling, in addition to ready-to-use blends solutions among the most used mobile phases.

Description	Notes	Size	Code	Page
Acetic acid glacial		10 x 1 ml	401411	118
Acetic acid glacial		10 x 2.5 ml	401412	118
Acetic acid glacial		50 ml	401413	118
Acetic acid glacial		1 l	401414	118
Acetonitrile + 0.1% v/v formic acid		1 l	412331	132
Acetonitrile + 0.1% v/v formic acid		2.5 l	412332	132
Acetonitrile + 0.1% v/v trifluoroacetic acid		1 l	412321	132
Acetonitrile + 0.1% v/v trifluoroacetic acid		2.5 l	412322	132
Ammonium acetate		50 g	418781	152
Ammonium formate		50 g	419741	158
Formic acid 99%		10 x 1 ml	405821	340
Formic acid 99%		10 x 2.5 ml	405822	340
Formic acid 99%		50 ml	405823	340
Formic acid 99%		1 l	405824	340
Methanol + 0.1% v/v formic acid		1 l	414861	459
Methanol + 0.1% v/v formic acid		2.5 l	414862	459
Methanol + 0.1% v/v trifluoroacetic acid		1 l	414871	459
Methanol + 0.1% v/v trifluoroacetic acid		2.5 l	414872	459
Trifluoroacetic acid		10 x 1 ml	411541	715
Trifluoroacetic acid		10 x 2.5ml	411542	715
Trifluoroacetic acid		50 ml	411543	715
Water + 0.1% v/v formic acid		1 l	412121	730
Water + 0.1% v/v formic acid		2.5 l	412122	730

HPLC Ultragradient Grade Solvents

The gradient control of elution and drift at critical wavelengths of our HPLC solvents, Gold UltraGradient and Plus Gradient Grade, guarantee a peak free baseline. Their optimal sensitivity allows you to evaluate in the best possible way the impurities of your samples. To make sure that no particle in the mobile phase will hinder your analyses, we carry out a microfiltration of our GOLD solvents at 0.1 µm and for HPLC Gradient Plus at 0.2 µm.

Description	Notes	Size	Code	Page
Acetonitrile		1 l	412371000	130
Acetonitrile		2.5 l	412372000	130
Acetonitrile		4 l	412374	130
Methanol		1 l	412721	455
Methanol		2.5 l	412722	455
Methanol		4 l	412724	455

HPLC Gradient Grade Solvents

The solvents of this product line guarantee excellent short-wavelength performance and limited drift, which makes them ideal for gradient and trace analysis.

Description	Notes	Size	Code	Page
Acetonitrile		1 l	412393	130
Acetonitrile		1 l	412391000	130
Acetonitrile		2.5 l	412392000	130
Acetonitrile		5 l	412395	130
Ethanol absolute anhydrous	Only for Italian market	1 l	412701	311
Ethanol absolute anhydrous	Only for Italian market	1 l	412703	311
Ethanol absolute anhydrous		1 l	4127012	311
Ethanol absolute anhydrous		1 l	4127032	311
Ethanol absolute anhydrous	Only for Italian market	2.5 l	412702	311
Ethanol absolute anhydrous		2.5 l	4127022	311
Methanol		1 l	412381	455

Description	Notes	Size	Code	Page
Methanol		2.5 l	412383	455
Propan-2-ol		1 l	412711000	573
Propan-2-ol		2.5 l	412712000	573
Water		1 l	412141	728
Water		2.5 l	412142	728

HPLC Isocratic Grade Solvents

This is a line of solvents which, due to their high purity and strictly controlled chemical-physical parameters, adequately meet the needs of modern analytical HPLC.
Available in glass bottles (1l and 2.5l) or stainless steel shuttle drums (5 to 1000l), their characteristics satisfy the requirements of the most advanced HPLC techniques.

Description	Notes	Size	Code	Page
Acetic acid glacial		1 l	401431	118
Acetic acid glacial		2.5 l	401432	118
Acetone		1 l	412501	126
Acetone		2.5 l	412502	126
Acetonitrile		1 l	412411000	130
Acetonitrile		2.5 l	412412000	130
Butanol-1		1 l	412511000	212
Butanol-1		2.5 l	412512000	212
n-Butyl chloride		1 l	431821	216
tert-Butylmethylether		1 l	432031	216
tert-Butylmethylether		2.5 l	432032	216
Chloroform		1 l	412571	245
Chloroform		2.5 l	412572	245
Chloroform		1 l	412652	246
Chloroform		2.5 l	412653	246
Cyclohexane		1 l	412431000	269
Cyclohexane		2.5 l	412432000	269
1,2-Dichloroethane		1 l	447191	280
1,2-Dichloroethane		2.5 l	447192	280
Dichloromethane		1 l	412621000	281
Dichloromethane		2.5 l	412622000	281
Dichloromethane		1 l	412662	282
Dichloromethane		2.5 l	412661	282
Diethyl ether		1 l	412671	289
Diethyl ether		2.5 l	412672	289
n,n-Dimethylformamide		1 l	444981	295
n,n-Dimethylformamide		2.5 l	444982	295
Dimethylsulphoxide		1 l	445141	298
Dimethylsulphoxide		2.5 l	445142	298
1,4-Dioxane		1 l	443231	301
Ethanol absolute anhydrous	Only for Italian market	1 l	412521	311
Ethanol absolute anhydrous		1 l	4125212	311
Ethanol absolute anhydrous	Only for Italian market	2.5 l	412522	311
Ethanol absolute anhydrous		2.5 l	4125222	311
Ethanol 96°		1 l	4145412	314
Ethanol 96°		2.5 l	4145422	314
Ethanol 96°	Only for Italian market	1 l	414541	314
Ethanol 96°	Only for Italian market	2.5 l	414542	314
Ethyl acetate		1 l	412611000	320

Description	Notes	Size	Code	Page
Ethyl acetate		2.5 l	412612000	320
n-Heptane 99%		1 l	412591000	357
n-Heptane 99%		2.5 l	412592000	357
n-Heptane		1 l	446831	358
n-Heptane		2.5 l	446832	358
n-Hexane 99%		1 l	412691	361
n-Hexane 99%		2.5 l	412692	361
n-Hexane		1 l	412601000	363
n-Hexane		2.5 l	412602000	363
Hexane mixture of isomers		1 l	412632	364
Hexane mixture of isomers		2.5 l	412631	364
Isohexane		1 l	445152	410
Isohexane		2.5 l	445151	410
Isooctane		1 l	412441000	411
Isooctane		2.5 l	412442000	411
Methanol		1 l	412531	456
Methanol		1 l	412533	456
Methanol		2.5 l	412532	456
Methanol		2.5 l	412535	456
Methyl acetate		2.5 l	P0043721	462
2-Methyltetrahydrofuran		1 l	412681	470
2-Methyltetrahydrofuran		2.5 l	412682	470
n-Pentane		1 l	P0643716	513
n-Pentane		2.5 l	P0643721	513
Propan-1-ol		1 l	412541000	572
Propan-1-ol		2.5 l	412542000	572
Propan-2-ol		1 l	412821	574
Propan-2-ol		1 l	412421000	574
Propan-2-ol		2.5 l	412422000	574
Tetrahydrofuran		1 l	412451000	693
Tetrahydrofuran		1 l	412453000	693
Tetrahydrofuran		2.5 l	412452000	693
Tetrahydrofuran		1 l	412471	694
Tetrahydrofuran		2.5 l	412472	694
Toluene		1 l	412641000	707
Toluene		2.5 l	412642000	707
Triethylamine		1 l	489631	714
Triethylamine		2.5 l	489633	714

HPLC Preparative Solvents

Our range of solvents for HPLC preparative have been designed to satisfy the requirements of separations and purifications. Their low non-volatile residue content (from 5 to 10 ppm maximum) allows to optimize the operation conditions and to make impurity-free preparations. All these solvents are available in 2.5 l bottles and in stainless steel shuttle drums from 5 to 1 000 l.

Description	Notes	Size	Code	Page
Acetonitrile		2.5 l	412409	130
tert-Butylmethylether		2.5 l	432022000	217
Chloroform		2.5 l	438641	246
Dichloromethane		2.5 l	463281	282
Dichloromethane		2.5 l	463291	282
Ethyl acetate		2.5 l	448211	320
Propan-2-ol		2.5 l	415112	574

Description	Notes	Size	Code	Page
Tetrahydrofuran		2.5 l	487352	694
Toluene		2.5 l	488531	708

Silica Gel and Filter aids

Besides the widely used silica gel, other products with particular characteristics are also available and offer a series of valid alternatives for resolving numerous separation problems.

Description	Notes	Size	Code	Page
Aluminum oxide (acid)		250 g	417185	142
Aluminum oxide (acid)		1 kg	417182	142
Aluminum oxide (basic)		100 g	417214	142
Aluminum oxide (basic)		1 kg	417217	142
Aluminum oxide (neutral)		250 g	417245	143
Aluminum oxide (neutral)		1 kg	417241	143
Aluminum oxide (neutral)		2.5 kg	417248	143
Aluminum oxide activated		1 kg	312261	143
Calcium carbonate		250 g	433245	223
Cellulose, powder		250 g	436061	236
Charcoal activated		250 g	434455	241
Charcoal activated		1 kg	434454	241
Dicalite 4158		500 g	P8880014	278
Dicalite 4158		1 kg	P8880017	278
Dicalite 4158		5 kg	P8880027	278
Florisil 100-200 mesh		100 g	452351	334
Florisil 100-200 mesh		500 g	452353	334
Florisil 60-100 mesh		100 g	452331	334
Florisil 60-100 mesh		500 g	452333	334
Florisil 60-100 mesh		1 kg	452332	334
Florisil 60-100 mesh		100 g	452271	335
Florisil 60-100 mesh		500 g	452273	335
Kieselguhr composed		250 g	449895	419
Kieselguhr composed		1 kg	449897	419
Magnesium oxide		1 kg	459617	441
Sand purified		1 kg	477153	594
Silica gel 60A 6 - 35µ		1 kg	P2010017	597
Silica gel 60A 6 - 35µ		5 kg	P2010027	597
Silica gel 60A 6 - 35µ		25 kg	P2010044	597
Silica gel 60A 20 - 45µ		1 kg	P2200017	598
Silica gel 60A 20 - 45µ		5 kg	P2200027	598
Silica gel 60A 35 - 70µ		1 kg	P2000017	598
Silica gel 60A 35 - 70µ		2 kg	P2000026	598
Silica gel 60A 35 - 70µ		5 kg	P2000027	598
Silica gel 60A 35 - 70µ		25 kg	P2000044	598
Silica gel 60A 40 - 63µ		1 kg	P2050017	598
Silica gel 60A 40 - 63µ		5 kg	P2050027	598
Silica gel 60A 40 - 63µ		25 kg	P2050044	598
Silica gel 60A 70 - 200µ		1 kg	P2100017	599
Silica gel 60A 70 - 200µ		2 kg	P2100026	599
Silica gel 60A 70 - 200µ		5 kg	P2100027	599
Silica gel 60A 70 - 200µ		25 kg	P2100044	599
Silica gel 60A 0,06÷0,20 mm		500 g	453336	599
Silica gel 60A 0,06÷0,20 mm		5 kg	453332	599

GAS CHROMATOGRAPHY

Broad spectrum chemical analysis of trace level components is a continuing challenge for any analytical chemist. This challenge is further confounded when chemical impurities may be present in common organic solvents or when chemical artifacts may be formed, produced and introduced during an analytical procedure. Minimizing and understanding these chemical artifacts is critical for trace level detection and is crucial for accurate analytical conclusions.
CARLO ERBA Reagents GC Solvents are the right choice for your complex mixture challenges.

Head Space Solvents

The operating principle of this technique is based on the chromatographic analysis of the vapor phase in thermodynamic equilibrium above the sample enclosed in a sealed container.
Analysis of residue solvents using GC Heaspace techniques, has become a major control procedure in pharmaceutical and food related industries. CARLO ERBA Reagents has recently developed solvents specifically tested for GC-HS applications. Their purity and handling specifications meet the requirements of the latest Pharmacopoeia guidelines for the residual solvent content in pharmaceutical products.

Description	Notes	Size	Code	Page
n,n-Dimethylformamide		1 l	444991	295
Dimethylsulphoxide		1 l	445121	298
Water		1 l	412011	728

PESTIPUR® Solvents for pesticides residue analysis

The control of pesticide residues in the food and environmental sectors is remarkably important today, as these substances represent a potential public health hazard.
The purity of the solvent is a determinant factor in obtaining reliable results. Thus it is essential to have products available with suitable parameters for this type of application.
To meet these needs, CARLO ERBA Reagents offers its PESTIPUR® line of solvents, specific for the extraction of pesticides and the analysis of chlorinated and nitrogenous residues, even at trace levels.
Our products are prepared according to the most advanced distillation techniques and strictly controlled in order to guarantee the highest level of quality.
Various functionality tests ensure a stable base line in gas chromatography.
For the entire PESTIPUR® line, the absence of critical impurities is ensured by means of precise functionality tests:
- GC-ECD = 3 ng/l in the retention time window between 1,2,4-trichlorobenzene and mirex with lindane standard
- GC-NPD = 3 ng/l in the retention time window between Atrazine and Coumaphos with ethylparathion standard

Description	Notes	Size	Code	Page
Acetone		1 l	400991	126
Acetone		2.5 l	400992000	126
Acetonitrile		1 l	401241	131
Acetonitrile		2.5 l	401242	131
tert-Butylmethylether		1 l	432061	217
tert-Butylmethylether		2.5 l	432062	217
Chloroform		1 l	438681	246
Chloroform		2.5 l	438682	246
Chloroform		1 l	438651	246
Chloroform		2.5 l	438652	246
Cyclohexane		1 l	436931	270
Cyclohexane		2.5 l	436932	270
Dichloromethane		1 l	442291	282
Dichloromethane		2.5 l	442292000	282
Dichloromethane		1 l	442261	283
Dichloromethane		2.5 l	442262	283
Diethyl ether		1 l	447651	289
Diethyl ether		2.5 l	447652	289
n,n-Dimethylformamide		1 l	444941	296
Ethyl acetate		1 l	448351	320
Ethyl acetate		2.5 l	448352000	320
n-Heptane 99%		1 l	446951	357
n-Heptane 99%		2.5 l	446952	357

Description	Notes	Size	Code	Page
Heptane mixture of isomers		1 l	446841	359
Heptane mixture of isomers		2.5 l	446842	359
n-Hexane 99%		1 l	447111	362
n-Hexane 99%		2.5 l	447112000	362
n-Hexane		1 l	447011	363
n-Hexane		2.5 l	447012	363
Hexane mixture of isomers		1 l	447181	364
Hexane mixture of isomers		2.5 l	447182	364
Isohexane		1 l	447131	410
Isohexane		2.5 l	447132	410
Isooctane		1 l	456791	411
Isooctane		2.5 l	456792	411
Methanol		1 l	414930	456
Methanol		2.5 l	414932	456
n-Pentane		1 l	468161	513
n-Pentane		2.5 l	468162	513
Petroleum ether 40 - 65°C		1 l	447851	520
Petroleum ether 40 - 65°C		2.5 l	447852	520
Petroleum ether 35 - 60°C		1 l	447862	522
Petroleum ether 35 - 60°C		2.5 l	447861	522
Propan-2-ol		1 l	415281	574
Toluene		1 l	488591	708
Toluene		2.5 l	488592	708

ATRASOL® Solvents for the detection of traces in organic compounds and hydrocarbons

Specific solvents for gas chromatographic analysis of trace pollutants.
Rigorous gas chromatographic controls and extreme operation accuracy in both production and packaging make these the best-suited solvents in gas chromatography for all determinations of traces of organics requiring extreme precision and sensitivity.
High purity, guaranteed absence of extraneous peaks in gas chromatographic determinations and guarantee of reproducibility and repeatability of the result are the main feature of this line.
Furthermore, for all the ATRASOL® solvents, the absence of critical impurities is ensured by means of precise functionality tests:
- GC-ECD = 3 ng/l in the retention time window between 1,2,4-trichlorobenzene and mirex with lindane standard
- GC-FID = 5 µg/l in the retention time window beyond toluene with hexadecane standard

Description	Notes	Size	Code	Page
Acetone		1 l	P0053216	126
Acetone		2.5 l	P0053221	126
Chloroform		1 l	P02432E16	246
Chloroform		2.5 l	P02432E21	246
Dichloromethane		1 l	P02932A16	282
Dichloromethane		2.5 l	P02932A21	282
Dichloromethane		1 l	P02932E16	282
Dichloromethane		2.5 l	P02932E21	282
n,n-Dimethylformamide		1 l	P0343216	295
n,n-Dimethylformamide		2.5 l	P0343221	295
Dimethylsulphoxide		1 l	P0353216	298
Dimethylsulphoxide		2.5 l	P0353221	298
Ethyl acetate		1 l	P0023216	320
Ethyl acetate		2.5 l	P0023221	320
n-Hexane 99%		1 l	P052323016	361
n-Hexane 99%		2.5 l	P052323021	361
Methanol		1 l	P0933216	456
Methanol		2.5 l	P0933221	456

Description	Notes	Size	Code	Page
n-Pentane 99%		1 l	P064323016	512
n-Pentane 99%		2.5 l	P064323021	512
Toluene		1 l	P0713216	708
Toluene		2.5 l	P0713221	708

ATRASOL ®Solvents for Hydrocarbon index determination according to EN ISO 9377-2

The European regulation UNI ISO 9377-2 “Determination of hydrocarbon oil index - Method using solvent extraction and gas chromatography”, established the criteria for the evaluation of the hydrocarbon index in water using gas chromatography. This procedure is suitable for surface water, wastewater and water from sewage treatment plants.
CARLO ERBA Reagents offer suitable extraction solvents, with their boiling range between 56 and 69°C.
Each production lot is specifically analyzed so that the hydrocarbon index is less than or equal to 0.1 mg/l, in the retention time window between n-decane and n-tetracontane.

Description	Notes	Size	Code	Page
n-Hexane		1 l	P0523216	363
n-Hexane		2.5 l	P0523221	363
Isohexane		1 l	P6263216	410
Isohexane		2.5 l	P6263221	410
n-Pentane		1 l	P0643216	513
n-Pentane		2.5 l	P0643221	513
Petroleum ether 35 - 60°C		1 l	P0883216	521
Petroleum ether 35 - 60°C		2.5 l	P0883221	521
Standard Mixture for hydrocarbon analysis	Standard quality control of two mineral oils in acetone	1 ml	506002	660
Standard Mixture for hydrocarbon analysis	Mixture of mineral oil without additive 2 to 5 mg / ml each in hexane	1 ml	506010	660
Standard Mixture for hydrocarbon analysis	Standard mixture of n-alkanes (C10 to C40 in pairs) of 50 mcg / ml each in hexane	1 ml	506020	660
Standard Mixture for hydrocarbon analysis	N-tetracontane mixture (20 mg / l) and n-decane (20 mg / l) in hexane	5 ml	506040	660
Standard Mixture for hydrocarbon analysis	Mixture of mineral oil without additive 2 to 1 mg / ml each in hexane	10 ml	506011	660
Standard Mixture for hydrocarbon analysis	Mother solution stearyl stearate 2 g / l in hexane	10 ml	506030	660

ION PAIR CHROMATOGRAPHY

Ion Pair Chromatography was developed to allow the separation of complex mixtures of polar and ionic molecules, which often are not well separated by ion exchange chromatography. The selectivity is determined by the mobile phase: the organic eluent is supplemented with a specific ion-pairing reagent. The IPC reagents are large ionic molecules having a charge opposite to the targeted analyte, as well as a hydrophobic region to interact with the stationary phase. The counter-ion combines with the ions of the eluent, becoming ion pairs in the stationary phase. Ion pairs are then separated on Reverse-phase HPLC columns.

Reagents for Ion Pair Chromatography

Derivatives can be used to solve common analytical problems related to ionic or polarized products in chromatography. The following reagents are additives for the mobile phase that allow the separation in reversed-phase HPLC of ionic or highly polar substances (counter-ion tetraalkylammonium for anionic electrolytes, alkyl or aryl sulfonate for cationic electrolytes).
Benefits of CARLO ERBA ion-pair reagents are:

- The purity of the mobile phase and therefore the accuracy of the results depend on the quality of the additive
- The specifications of our ion pair reagents are in line with the requirements of Reverse-phase HPLC: high purity ≥ 99%, minimum UV absorption in the far UV, controlled pH and minimum loss on drying

Description	Notes	Size	Code	Page
1-Butanesulfonic acid sodium salt		25 g	405631	212
1-Butanesulfonic acid sodium salt		100 g	405632	212
1-Decanesulfonic acid sodium salt		25 g	405871	273
1-Decanesulfonic acid sodium salt		100 g	405872	273
1-Dodecanesulfonic acid sodium salt		25 g	405881	304
1-Dodecanesulfonic acid sodium salt		100 g	405882	304
Dodecyltrimethylammonium bromide		25 g	405941	305
Dodecyltrimethylammonium bromide		100 g	405942	305
1-Heptanesulphonic acid sodium salt		25 g	405851	359
1-Heptanesulphonic acid sodium salt		100 g	405852	359
1-Hexanesulphonic acid sodium salt		25 g	405621	365
1-Hexanesulphonic acid sodium salt		100 g	405622	365
1-Hexanesulphonic acid sodium salt monohydrate		25 g	405921	366
1-Hexanesulphonic acid sodium salt monohydrate		100 g	405922	366
1-Octanesulphonic acid sodium salt		25 g	405861	501
1-Octanesulphonic acid sodium salt		100 g	405862	501
1-Octanesulphonic acid sodium salt		1 kg	405863	501
1-Octanesulfonic acid sodium salt monohydrate		25 g	405931	501
1-Octanesulfonic acid sodium salt monohydrate		100 g	405932	501
1-Pentanesulphonic acid sodium salt		25 g	405841	514
1-Pentanesulphonic acid sodium salt		100 g	405842	514
1-Pentanesulphonic acid sodium salt monohydrate		25 g	405891	514
1-Pentanesulphonic acid sodium salt monohydrate		100 g	405892	514
1-Propanesulfonic acid sodium salt		25 g	405901	577
1-Propanesulfonic acid sodium salt		100 g	405902	577
Tetrabutylammonium bisulfate		25 g	405971	691
Tetrabutylammonium bisulfate		100 g	405972	691

ION CHROMATOGRAPHY

Ion chromatography is a widely used technique that separates ions and polar molecules based on their affinity to the ion exchanger. It is often used in protein purification and water analysis. it works on almost any kind of charged molecule—including large proteins, small nucleotides, and amino acids.

Standard Solutions for Ion Chromatography

Our standard solutions for ion chromatography are obtained by dissolution of a high-purity salt (+99.9%) in water.
They are characterized by:
- Concentrations equal to 1000 ppm;
- Guaranteed titer with its uncertainty;
- Raw materials selected and verified against N.I.S.T. Standard Reference Materials;
- Available in HDPE bottles;
- Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval;
- Shelf life, for the unopened product package, of 2 years.

Description	Notes	Size	Code	Page
Ammonium standard solution	conc. 1.000 ppm Matrix : Water	100 ml	503311	152
Ammonium standard solution	conc. 1.000 ppm Matrix : Water	500 ml	503313	152
Bromate standard solution	conc. 1.000 ppm Matrix : Water	100 ml	503171	197
Bromate standard solution	conc. 1.000 ppm Matrix : Water	500 ml	503173	197
Bromide standard solution	conc. 1.000 ppm Matrix : Water	100 ml	503211	198
Bromide standard solution	conc. 1.000 ppm Matrix : Water	500 ml	503213	198
Calcium standard solution	conc. 1.000 ppm Matrix : Water	100 ml	503221	222
Calcium standard solution	conc. 1.000 ppm Matrix : Water	500 ml	503223	222
Calcium standard solution	conc. 1.000 ppm Matrix : Water and nitric acid	500 ml	503389	222
Chlorate standard solution	conc. 1.000 ppm Matrix : Water	100 ml	503181	243
Chlorate standard solution	conc. 1.000 ppm Matrix : Water	500 ml	503183	243
Chloride standard solution	conc. 1.000 ppm Matrix : Water	100 ml	503231	243
Chloride standard solution	conc. 1.000 ppm Matrix : Water	500 ml	503233	243
Chlorite standard solution	conc. 1.000 ppm Matrix : Water	100 ml	503191	243
Chlorite standard solution	conc. 1.000 ppm Matrix : Water	500 ml	503193	243
Chromate standard solution	conc. 1.000 ppm Matrix : Water	100 ml	503241	250
Chromate standard solution	conc. 1.000 ppm Matrix : Water	500 ml	503243	250
Cyanide standard solution	conc. 1.000 ppm Matrix : Water and nitric acid	100 ml	503358	269
Fluoride standard solution	conc. 1.000 ppm Matrix : Water	100 ml	503251	336
Fluoride standard solution	conc. 1.000 ppm Matrix : Water	500 ml	503253	336
Iodide standard solution	conc. 1.000 ppm Matrix : Water	100 ml	503261	396
Iodide standard solution	conc. 1.000 ppm Matrix : Water	500 ml	503263	396
Lithium standard solution	conc. 1.000 ppm Matrix : Water	100 ml	503281	431
Lithium standard solution	conc. 1.000 ppm Matrix : Water	500 ml	503283	431
Magnesium standard solution	conc. 1.000 ppm Matrix : Water	100 ml	503291	437
Magnesium standard solution	conc. 1.000 ppm Matrix : Water	500 ml	503293	437
Magnesium standard solution	conc. 1.000 ppm Matrix : Water and nitric acid	500 ml	503390	437
Nitrate standard solution	conc. 1.000 ppm Matrix : Water	100 ml	503331	491
Nitrate standard solution	conc. 1.000 ppm Matrix : Water	500 ml	503333	491
Nitrite standard solution	conc. 1.000 ppm Matrix : Water	100 ml	503321	497
Nitrite standard solution	conc. 1.000 ppm Matrix : Water	500 ml	503323	497
Phosphate standard solution	conc. 1.000 ppm Matrix : Water	100 ml	503341	528
Phosphate standard solution	conc. 1.000 ppm Matrix : Water	500 ml	503343	528
Potassium standard solution	conc. 1.000 ppm Matrix : Water	100 ml	503271	536
Potassium standard solution	conc. 1.000 ppm Matrix : Water	100 ml	503273	536
Sodium standard solution	conc. 1.000 ppm Matrix : Water	100 ml	503301	610
Sodium standard solution	conc. 1.000 ppm Matrix : Water	100 ml	503303	610

Description	Notes	Size	Code	Page
Strontium standard solution	conc. 1.000 ppm Matrix : Water	100 ml	503361	668
Sulfate standard solution	conc. 1.000 ppm Matrix : Water	100 ml	503351	673
Sulfate standard solution	conc. 1.000 ppm Matrix : Water	500 ml	503353	673

Concentrated mobile phases for Ion Chromatography

The following eluents are filtered at 0.2µm and prepared from ultra-pure salts and 18-megaohm deionized water.
These are concentrated solutions that should be diluted by a factor of 100.
The shelf life for the unopened product package is 2 years.

Description	Notes	Size	Code	Page
Eluent sodium bicarbonate	0.17 M Sodium bicarbonate	100 ml	504534	307
Eluent sodium bicarbonate	0.5 M Sodium bicarbonate	1 l	507578	307
Eluent sodium carbonate	0.1 M Sodium bicarbonate	1 l	507695	307
Eluent sodium carbonate	0.5 M Sodium carbonate	100 ml	504533	307
Eluent sodium carbonate	0.5 M Sodium carbonate	1 l	507577	307
Eluent sodium carbonate/sodium bicarbonate	0.18 M Sodium carbonate / 0.17 M Sodium bicarbonate	100 ml	504530	307
Eluent sodium carbonate/sodium bicarbonate	0.22 M Sodium carbonate / 0.28 M Sodium bicarbonate	100 ml	504531	307
Eluent sodium carbonate/sodium bicarbonate	0.35 M Sodium carbonate / 0.1 M Sodium bicarbonate	100 ml	504532	307

TRACE METAL ANALYSIS

In choosing the most appropriate analytical method to determine metals, each laboratory must consider the sample type and concentration levels, the number of elements to be determined and the costs the choice implies.
As a result, flame and graphite furnace atomic absorption spectrophotometry (AA) and inductively coupled plasma (ICP and ICP-MS) emission spectrometry are the most widely used analytical methods for determining trace elements.
Instrumental analysis, using ICP or AA, generally involves a preliminary treatment of the sample. This operation, known as acid mineralization, consists in a digestion process with hot concentrated acid in order to extract the elements of interest. CARLO ERBA Reagents offers two specific complete range of products (acids, bases and water) for sample and blank preparation. The purity of these products guarantees maximum reliability of the result.

Superpure Acids for trace metal analysis at ppb level

SUPEPURE range is characterized by blank values generally between 0.5 and 1 ppb, for the 60-plus declared impurities.
They are produced using the most advanced sub-boiling distillation techniques, in special equipment made of quartz or Teflon and packaged in a controlled environment.
In order to minimize the possibility for contamination of the resultant distillate, the packaging is performed in a clean room. They are available in a wide variety of molecules and sizes.

Description	Notes	Size	Code	Page
Acetic acid glacial		500 ml	401405	119
Acetic acid glacial		1 l	401406	119
Acetic acid glacial		2.5 l	401407	119
Ammonia solution 20 - 22 %		500 ml	420175	150
Hydrochloric acid 34-37%		500 ml	403915	372
Hydrochloric acid 34-37%		1 l	403916	372
Hydrochloric acid 34-37%		2.5 l	403917	372
Hydrochloric acid 29 - 31 %		1 l	403921	373
Hydrofluoric acid 47-51%		500 ml	405716	385
Nitric acid 67-70%		500 ml	408115	492
Nitric acid 67-70%		1 l	408116	492
Nitric acid 67-70%		2.5 l	408117	492
Perchloric acid 65-71%		1 l	409193	515
Sulfuric acid 93-98%		500 ml	410405	678
Sulfuric acid 93-98%		1 l	410406	678
Sulfuric acid 93-98%		2.5 l	410407	678

Ultrapure Acids for trace metal analysis at ppt level

ULTRAPURE range is characterized by blank values generally between 50 and 1 ppt, for the 60-plus declared impurities. This extreme level of purity is obtained using the double sub-boiling distillation process and preserved in Teflon packaging, preconditioned with hot acid for at least one week.

Description	Notes	Size	Code	Page
Acetic acid glacial		500 ml	401361	118
Ammonia solution 20 - 22 %		500 ml	420161	149
Hydrochloric acid 32-35%		500 ml	403891	372
Hydrofluoric acid 47-51%		500 ml	405611	385
Hydrogen peroxide solution 30-32%		500 ml	412051	387
Nitric acid 67-69%		500 ml	408051	493
Sulfuric acid 93-98%		500 ml	410351	678
Water		500 ml	412185	729

Standard solutions 1.000 ppm for AAS

Atomic absorption is the most sensitive technique available to analysts for the determination of metal impurities. It is a technique based on a sequential system which is generally slow but achieves sensitivity limits unattainable with other instrumental techniques.
The following ready-to-use standard single-element solutions are obtained by dissolution of the metal, at a purity level of 99.9%, in hydrochloric acid.
They are characterized by:
• Concentration of the metal equal to 1.000 ppm

- Available in 100ml and 500ml bottles in polyethylene or glass depending on compatibility
- Certificate of analysis with references on the N.I.S.T. Standard Reference Materials and uncertainty
- Shelf life, for the unopened product package, of 2 years

Description	Notes	Size	Code	Page
Aluminum standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	504190	139
Aluminum standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	100 ml	E497405	139
Aluminum standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	500 ml	E497401	139
Aluminum standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	504186	139
Antimony standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	100 ml	E497415	169
Antimony standard solution	conc. 1.000 ppm Matrix : Nitric acid and hydrofluoric acid	100 ml	507525	169
Antimony standard solution	conc. 1.000 ppm Matrix : Nitric acid and hydrofluoric acid	500 ml	507479	169
Antimony standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	500 ml	E497411	169
Arsenic standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	504439	172
Arsenic standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	507496	172
Barium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	507527	178
Barium standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	100 ml	E497445	178
Barium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	507481	178
Barium standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	500 ml	E497441	178
Beryllium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	506941	190
Beryllium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	507497	190
Bismuth standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	507528	191
Bismuth standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	100 ml	E497455	191
Bismuth standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	507482	191
Bismuth standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	500 ml	E497451	191
Boron standard solution	conc. 1.000 ppm Matrix : Water	100 ml	E497465	196
Boron standard solution	conc. 1.000 ppm Matrix : Water	500 ml	E497461	196
Calcium standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	100 ml	E497485	222
Calcium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	507530	222
Calcium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	507476	222
Calcium standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	500 ml	E497481	222
Cerium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	507531	237
Cerium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	507498	237
Cesium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	507532	240
Cesium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	507499	240
Chromium standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	100 ml	E497505	251
Chromium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	504195	251
Chromium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	507485	251
Chromium standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	500 ml	E497501	251
Cobalt standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	507533	257
Cobalt standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	100 ml	E497495	257
Cobalt standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	507484	257
Cobalt standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	500 ml	E497491	257
Copper standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	100 ml	E497615	260
Copper standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	504545	260
Copper standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	507478	260
Copper standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	500 ml	E497611	260
Dysprosium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	507734	306
Dysprosium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	507500	306
Erbium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	507735	309
Erbium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	507501	309

Description	Notes	Size	Code	Page
Europium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	507736	330
Europium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	507502	330
Gadolinium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	507737	344
Gadolinium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	507504	344
Gallium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	507739	345
Gallium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	507503	345
Germanium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	507740	347
Germanium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	507505	347
Gold standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	100 ml	E497585	352
Gold standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	500 ml	E497581	352
Hafnium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	507741	355
Hafnium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	507506	355
Holmium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	507742	368
Holmium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	507507	368
Indium standard solution	conc. 1.000 ppm Matrix : Nitric acid and hydrofluoric acid	100 ml	507743	395
Indium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	507508	395
Iron standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	100 ml	E497515	401
Iron standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	504194	401
Iron standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	507393	401
Iron standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	500 ml	E497511	401
Lanthanum standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	507744	423
Lanthanum standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	507509	423
Lead standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	E497595	425
Lead standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	E497591	425
Lithium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	507745	431
Lithium standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	100 ml	E497525	431
Lithium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	507486	431
Lithium standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	500 ml	E497521	431
Magnesium standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	100 ml	E497535	437
Magnesium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	503718	437
Magnesium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	503719	437
Magnesium standard solution	conc. 1.000 ppm Matrix : Water	500 ml	507039	437
Magnesium standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	500 ml	E497531	437
Manganese standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	507746	447
Manganese standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	100 ml	E497545	447
Manganese standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	507488	447
Manganese standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	500 ml	E497541	447
Mercury standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	100 ml	497555	452
Mercury standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	503640	452
Mercury standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	507489	452
Mercury standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	500 ml	497551	452
Molybdenum standard solution	conc. 1.000 ppm Matrix : Ammonium hydroxide	100 ml	E497565	476
Molybdenum standard solution	conc. 1.000 ppm Matrix : Hydrofluoric acid and nitric acid	100 ml	507747	476
Molybdenum standard solution	conc. 1.000 ppm Matrix : Nitric acid and hydrofluoric acid	500 ml	507494	476
Molybdenum standard solution	conc. 1.000 ppm Matrix : Ammonium hydroxide	500 ml	E497561	476
Neodymium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	507748	484
Neodymium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	507510	484
Nickel standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	507749	485

Description	Notes	Size	Code	Page
Nickel standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	100 ml	E497575	485
Nickel standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	507487	485
Nickel standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	500 ml	E497571	485
Niobium standard solution	conc. 1.000 ppm Matrix : Nitric acid and hydrofluoric acid	100 ml	507750	490
Niobium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	507511	490
Palladium standard solution	conc. 1.000 ppm Matrix : Nitric acid and hydrofluoric acid	100 ml	507751	508
Palladium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	507512	508
Potassium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	507753	536
Potassium standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	100 ml	E497605	536
Potassium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	506960	536
Potassium standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	500 ml	E497601	536
Rhenium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	507754	588
Rhenium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	507513	588
Rubidium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	507755	590
Rubidium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	507514	590
Samarium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	507756	593
Samarium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	507515	593
Scandium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	507757	595
Scandium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	507516	595
Selenium standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	100 ml	E497625	596
Selenium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	507758	596
Selenium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	507491	596
Selenium standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	500 ml	E497621	596
Silicon standard solution	conc. 1.000 ppm Matrix : Water	100 ml	E497635	600
Silicon standard solution	conc. 1.000 ppm Matrix : Water	500 ml	E497631	600
Silver standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	507526	602
Silver standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	507480	602
Sodium standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	100 ml	E497645	609
Sodium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	507759	609
Sodium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	503749	609
Sodium standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	500 ml	E497641	609
Strontium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	507760	668
Strontium standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	100 ml	E497665	668
Strontium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	507493	668
Strontium standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	500 ml	E497661	668
Tantalum standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	507761	688
Tantalum standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	507517	688
Tellurium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	507762	690
Tellurium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	507518	690
Thulium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	507763	699
Thulium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	507519	699
Tin standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	100 ml	E497655	702
Tin standard solution	conc. 1.000 ppm Matrix : Hydrofluoric acid and nitric acid	100 ml	503949	702
Tin standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	507492	702
Tin standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	500 ml	E497651	702
Titanium standard solution	conc. 1.000 ppm Matrix : Nitric acid and hydrofluoric acid	100 ml	507764	706
Titanium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	507520	706

Description	Notes	Size	Code	Page
Tungsten standard solution	conc. 1.000 ppm Matrix : Nitric acid and hydrofluoric acid	100 ml	507765	723
Tungsten standard solution	conc. 1.000 ppm Matrix : Nitric acid and hydrofluoric acid	500 ml	507521	723
Vanadium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	507766	725
Vanadium standard solution	conc. 1.000 ppm Matrix : Sulfuric acid	100 ml	E497675	725
Vanadium standard solution	conc. 1000 ppm Matrix : Nitric acid	500 ml	504187	725
Vanadium standard solution	conc. 1.000 ppm Matrix : Sulfuric acid	500 ml	E497671	725
Ytterbium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	507768	735
Ytterbium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	507523	735
Yttrium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	507767	736
Yttrium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	507522	736
Zinc standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	507769	738
Zinc standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	100 ml	E497685	738
Zinc standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	507477	738
Zinc standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	500 ml	E497681	738
Zirconium standard solution	conc. 1.000 ppm Matrix : Nitric acid and hydrofluoric acid	100 ml	507770	745
Zirconium standard solution	conc. 1.000 ppm Matrix : Nitric acid and hydrofluoric acid	500 ml	507524	745

Auxiliary products for AAS: Blank, Ionisation standards and matrix modifiers

Ionization buffers, prepared from high-purity salts (99,999%), are used to eliminate ionization phenomena and chemical interference in AAS. Matrix modifiers for graphite furnace AAS can be used diluted or mixed depending on the user's needs, are useful in eliminating the matrix effect in AAS.

Description	Notes	Size	Code	Page
di-Ammonium hydrogen phosphate 25 mg/L solution	conc. 25 ppm - Matrix : Nitric acid	50 ml	503194	159
Ammonium nitrate 200 mg/L solution	conc. 200 ppm - Matrix : Water	50 ml	503195	161
Cadmium standard solution	conc. 5 +/- 0,5 µg/L Matrix : 2% Nitric acid	50 ml	504360	219
Cesium chloride 25 g/l solution	25g/l Matrix : Water	500 ml	504536	240
Copper standard solution	conc. 10 +/- 1 µg/L Matrix : 2% Nitric acid	50 ml	504361	260
Lanthanum chloride 25 g/L solution	Matrix : Hydrochloric acid	500 ml	504537	424
Lead standard solution	conc. 10 +/- 1 µg/L Matrix : 2% Nitric acid	50 ml	504364	426
Magnesium nitrate 10 g/L solution	conc. 10 ppm - Matrix : Nitric acid	50 ml	503196	441
Manganese standard solution	conc. 20 +/- 2 µg/L Matrix : 2% Nitric acid	50 ml	504362	447
Mercury standard solution	conc. 500 +/- 30 µg/L Matrix : 2% Nitric acid	100 ml	504370	452
Nickel standard solution	conc. 10 +/- 1 µg/L Matrix : 2% Nitric acid	50 ml	504363	486
Nickel (II) nitrate 10g/l	conc. 10 ppm - Matrix : Nitric acid	50 ml	503197	488
Palladium nitrate 2 g/l solution	conc. 2g/l Pd(NO3) Matrix : Nitric acid	50 ml	503198	509
Potassium chloride 25g/l in HCl	25 g/l Matrix : Water	500 ml	504538	540
Water deionized and acidified	Matrix : 2 % Nitric acid	1 l	504550	730
Water deionized and acidified	Matrix : 5 % Nitric acid	1 l	504551	730
Water deionized and acidified	Matrix : 10 % Nitric acid	1 l	504552	730
Water deionized and acidified	Matrix : 2 % Hydrochloric acid	1 l	504553	730
Water deionized and acidified	Matrix : 5 % Hydrochloric acid	1 l	504554	730
Water deionized and acidified	Matrix : 10 % Hydrochloric acid	1 l	504557	730

Monoelement Standard solutions 10.000 ppm for ICP

These standard solutions are obtained by dissolution of the metal, at a purity level of 99.99%, in an acid (usually nitric acid).
They are characterized by:
- Concentrations of 10.000 ppm;
- Guaranteed titer with its uncertainty;

- Raw materials selected and verified against N.I.S.T. Standard Reference Materials;
- Available in 100ml and 500ml polyethylene bottles;
- Certificate of analysis with references to the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval;
- Shelf life, for the unopened product package, is 3 years.

Description	Notes	Size	Code	Page
Aluminum standard solution	conc. 10.000 ppm Matrix : Hydrochloric acid	100 ml	503415	139
Aluminum standard solution	conc. 10.000 ppm Matrix : Hydrochloric acid	500 ml	503417	139
Antimony standard solution	conc. 10.000 ppm Matrix : Hydrochloric acid	100 ml	503895	169
Antimony standard solution	conc. 10.000 ppm Matrix : Hydrochloric acid	500 ml	503897	169
Arsenic standard solution	conc. 10.000 ppm Matrix : Nitric acid	100 ml	503425	172
Arsenic standard solution	conc. 10.000 ppm Matrix : Nitric acid	500 ml	503427	172
Barium standard solution	conc. 10.000 ppm Matrix : Hydrochloric acid	100 ml	503455	178
Barium standard solution	conc. 10.000 ppm Matrix : Hydrochloric acid	500 ml	503457	178
Bismuth standard solution	conc. 10.000 ppm Matrix : Nitric acid	100 ml	503475	191
Bismuth standard solution	conc. 10.000 ppm Matrix : Nitric acid	500 ml	503477	191
Boron standard solution	conc. 10.000 ppm Matrix : Water	100 ml	503445	196
Boron standard solution	conc. 10.000 ppm Matrix : Water	500 ml	503447	196
Cadmium standard solution	conc. 10.000 ppm Matrix : Nitric acid	100 ml	503495	219
Cadmium standard solution	conc. 10.000 ppm Matrix : Nitric acid	500 ml	503497	219
Calcium standard solution	conc. 10.000 ppm Matrix : Nitric acid	100 ml	503485	221
Calcium standard solution	conc. 10.000 ppm Matrix : Nitric acid	500 ml	503487	221
Cerium standard solution	conc. 10.000 ppm Matrix : Nitric acid	100 ml	503505	237
Cerium standard solution	conc. 10.000 ppm Matrix : Nitric acid	500 ml	503507	237
Cesium standard solution	conc. 10.000 ppm Matrix : Nitric acid	100 ml	503535	239
Cesium standard solution	conc. 10.000 ppm Matrix : Nitric acid	500 ml	503537	239
Chromium standard solution	conc. 10.000 ppm Matrix : Nitric acid	100 ml	503525	251
Chromium standard solution	conc. 10.000 ppm Matrix : Nitric acid	500 ml	503527	251
Cobalt standard solution	conc. 10.000 ppm Matrix : Nitric acid	100 ml	503515	256
Cobalt standard solution	conc. 10.000 ppm Matrix : Nitric acid	500 ml	503517	256
Copper standard solution	conc. 10.000 ppm Matrix : Nitric acid	100 ml	503545	260
Copper standard solution	conc. 10.000 ppm Matrix : Nitric acid	500 ml	503547	260
Dysprosium standard solution	conc. 10.000 ppm Matrix : Nitric acid	100 ml	504235	305
Dysprosium standard solution	conc. 10.000 ppm Matrix : Nitric acid	500 ml	504237	305
Erbium standard solution	conc. 10.000 ppm Matrix : Nitric acid	100 ml	504245	309
Erbium standard solution	conc. 10.000 ppm Matrix : Nitric acid	500 ml	504247	309
Europium standard solution	conc. 10.000 ppm Matrix : Nitric acid	100 ml	503575	330
Europium standard solution	conc. 10.000 ppm Matrix : Nitric acid	500 ml	503577	330
Gadolinium standard solution	conc. 10.000 ppm Matrix : Nitric acid	100 ml	503605	344
Gadolinium standard solution	conc. 10.000 ppm Matrix : Nitric acid	500 ml	503607	344
Germanium standard solution	conc. 10.000 ppm Matrix : Hydrofluoric acid and nitric acid	100 ml	504255	347
Germanium standard solution	conc. 10.000 ppm Matrix : Hydrofluoric acid and nitric acid	500 ml	504257	347
Gold standard solution	conc. 10.000 ppm Matrix : Hydrochloric acid	100 ml	503435	352
Gold standard solution	conc. 10.000 ppm Matrix : Hydrochloric acid	500 ml	503437	352
Hafnium standard solution	conc. 10.000 ppm Matrix : Nitric acid	100 ml	504225	355
Hafnium standard solution	conc. 10.000 ppm Matrix : Nitric acid	500 ml	504227	355
Holmium standard solution	conc. 10.000 ppm Matrix : Nitric acid	100 ml	504265	367
Holmium standard solution	conc. 10.000 ppm Matrix : Nitric acid	500 ml	504267	367
Indium standard solution	conc. 10.000 ppm Matrix : Nitric acid	100 ml	503655	395
Indium standard solution	conc. 10.000 ppm Matrix : Nitric acid	500 ml	503657	395
Iron standard solution	conc. 10.000 ppm Matrix : Nitric acid	100 ml	503585	400
Iron standard solution	conc. 10.000 ppm Matrix : Nitric acid	500 ml	503587	400

Description	Notes	Size	Code	Page
Lanthanum standard solution	conc. 10.000 ppm Matrix : Nitric acid	100 ml	503685	423
Lanthanum standard solution	conc. 10.000 ppm Matrix : Nitric acid	500 ml	503687	423
Lead standard solution	conc. 10.000 ppm Matrix : Nitric acid	100 ml	503805	425
Lead standard solution	conc. 10.000 ppm Matrix : Nitric acid	500 ml	503807	425
Lithium standard solution	conc. 10.000 ppm Matrix : Hydrochloric acid	100 ml	503695	431
Lithium standard solution	conc. 10.000 ppm Matrix : Hydrochloric acid	500 ml	503697	431
Lutetium standard solution	conc. 10.000 ppm Matrix : Nitric acid	100 ml	503615	436
Lutetium standard solution	conc. 10.000 ppm Matrix : Nitric acid	500 ml	503617	436
Magnesium standard solution	conc. 10.000 ppm Matrix : Nitric acid	100 ml	503715	437
Magnesium standard solution	conc. 10.000 ppm Matrix : Nitric acid	500 ml	503717	437
Manganese standard solution	conc. 10.000 ppm Matrix : Nitric acid	100 ml	503725	447
Manganese standard solution	conc. 10.000 ppm Matrix : Nitric acid	500 ml	503727	447
Mercury standard solution	conc. 10.000 ppm Matrix : Nitric acid	100 ml	503635	452
Mercury standard solution	conc. 10.000 ppm Matrix : Nitric acid	500 ml	503637	452
Molybdenum standard solution	conc. 10.000 ppm Matrix : Ammonium hydroxide	100 ml	503735	476
Molybdenum standard solution	conc. 10.000 ppm Matrix : Ammonium hydroxide	500 ml	503737	476
Neodymium standard solution	conc. 10.000 ppm Matrix : Nitric acid	100 ml	503765	484
Neodymium standard solution	conc. 10.000 ppm Matrix : Nitric acid	500 ml	503767	484
Nickel standard solution	conc. 10.000 ppm Matrix : Nitric acid	100 ml	503775	485
Nickel standard solution	conc. 10.000 ppm Matrix : Nitric acid	500 ml	503777	485
Niobium standard solution	conc. 10.000 ppm Matrix : Nitric acid and hydrofluoric acid	100 ml	503755	490
Niobium standard solution	conc. 10.000 ppm Matrix : Nitric acid and hydrofluoric acid	500 ml	503757	490
Palladium standard solution	conc. 10.000 ppm Matrix : Hydrochloric acid	100 ml	503815	508
Palladium standard solution	conc. 10.000 ppm Matrix : Hydrochloric acid	500 ml	503817	508
Phosphorus standard solution	conc. 10.000 ppm Matrix : Water	100 ml	503795	531
Phosphorus standard solution	conc. 10.000 ppm Matrix : Water	500 ml	503797	531
Platinum standard solution	conc. 10.000 ppm Matrix : Hydrochloric acid	100 ml	503835	534
Platinum standard solution	conc. 10.000 ppm Matrix : Hydrochloric acid	500 ml	503837	534
Potassium standard solution	conc. 10.000 ppm Matrix : Nitric acid	100 ml	503675	536
Potassium standard solution	conc. 10.000 ppm Matrix : Nitric acid	500 ml	503677	536
Praseodymium standard solution	conc. 10.000 ppm Matrix : Nitric acid	100 ml	503825	571
Praseodymium standard solution	conc. 10.000 ppm Matrix : Nitric acid	500 ml	503827	571
Rhodium standard solution	conc. 10.000 ppm Matrix : Hydrochloric acid	100 ml	503865	588
Rhodium standard solution	conc. 10.000 ppm Matrix : Hydrochloric acid	500 ml	503867	588
Rubidium standard solution	conc. 10.000 ppm Matrix : Nitric acid	100 ml	503845	590
Rubidium standard solution	conc. 10.000 ppm Matrix : Nitric acid	500 ml	503847	590
Ruthenium standard solution	conc. 10.000 ppm Matrix : Hydrochloric acid	100 ml	503875	591
Ruthenium standard solution	conc. 10.000 ppm Matrix : Hydrochloric acid	500 ml	503877	591
Samarium standard solution	conc. 10.000 ppm Matrix : Nitric acid	100 ml	503935	593
Samarium standard solution	conc. 10.000 ppm Matrix : Nitric acid	500 ml	503937	593
Scandium standard solution	conc. 10.000 ppm Matrix : Nitric acid	100 ml	503905	595
Scandium standard solution	conc. 10.000 ppm Matrix : Nitric acid	500 ml	503907	595
Selenium standard solution	conc. 10.000 ppm Matrix : Nitric acid	100 ml	503915	596
Selenium standard solution	conc. 10.000 ppm Matrix : Nitric acid	500 ml	503917	596
Silicon standard solution	conc. 10.000 ppm Matrix : Water	100 ml	503925	600
Silicon standard solution	conc. 10.000 ppm Matrix : Nitric acid and hydrofluoric acid	100 ml	504275	600
Silicon standard solution	conc. 10.000 ppm Matrix : Water	500 ml	503927	600

Description	Notes	Size	Code	Page
Silicon standard solution	conc. 10.000 ppm Matrix : Nitric acid and hydrofluoric acid	500 ml	504277	600
Silver standard solution	conc. 10.000 ppm Matrix : Nitric acid	100 ml	503405	602
Silver standard solution	conc. 10.000 ppm Matrix : Nitric acid	500 ml	503407	602
Sodium standard solution	conc. 10.000 ppm Matrix : Nitric acid	100 ml	503745	609
Sodium standard solution	conc. 10.000 ppm Matrix : Nitric acid	500 ml	503747	609
Strontium standard solution	conc. 10.000 ppm Matrix : Nitric acid	100 ml	503955	667
Strontium standard solution	conc. 10.000 ppm Matrix : Nitric acid	500 ml	503957	667
Sulfur standard solution	conc. 10.000 ppm Matrix : Water	100 ml	504295	675
Sulfur standard solution	conc. 10.000 ppm Matrix : Water	500 ml	504297	675
Tantalum standard solution	conc. 10.000 ppm Matrix : Hydrofluoric acid and nitric acid	100 ml	503965	688
Tantalum standard solution	conc. 10.000 ppm Matrix : Hydrofluoric acid and nitric acid	500 ml	503967	688
Tellurium standard solution	conc. 10.000 ppm Matrix : Hydrochloric acid	100 ml	503985	690
Tellurium standard solution	conc. 10.000 ppm Matrix : Hydrochloric acid	500 ml	503987	690
Terbium standard solution	conc. 10.000 ppm Matrix : Nitric acid	100 ml	503975	690
Terbium standard solution	conc. 10.000 ppm Matrix : Nitric acid	500 ml	503977	690
Thallium standard solution	conc. 10.000 ppm Matrix : Nitric acid	100 ml	504015	697
Thallium standard solution	conc. 10.000 ppm Matrix : Nitric acid	500 ml	504017	697
Tin standard solution	conc. 10.000 ppm Matrix : Hydrochloric acid	100 ml	503945	702
Tin standard solution	conc. 10.000 ppm Matrix : Hydrochloric acid	500 ml	503947	702
Titanium standard solution	conc. 10.000 ppm Matrix : Hydrochloric acid and hydrofluoric acid	100 ml	504005	705
Titanium standard solution	conc. 10.000 ppm Matrix : Hydrochloric acid and hydrofluoric acid	500 ml	504007	705
Tungsten standard solution	conc. 10.000 ppm Matrix : 10% ammonia	100 ml	504055	723
Tungsten standard solution	conc. 10.000 ppm Matrix : 10% ammonia	500 ml	504057	723
Uranium standard solution	conc. 10.000 ppm Matrix : Nitric acid	100 ml	504035	724
Uranium standard solution	conc. 10.000 ppm Matrix : Nitric acid	500 ml	504037	724
Vanadium standard solution	conc. 10.000 ppm Matrix : Nitric acid	100 ml	504045	725
Vanadium standard solution	conc. 10.000 ppm Matrix : Nitric acid	500 ml	504047	725
Ytterbium standard solution	conc. 10.000 ppm Matrix : Nitric acid	100 ml	504075	735
Ytterbium standard solution	conc. 10.000 ppm Matrix : Nitric acid	500 ml	504077	735
Yttrium standard solution	conc. 10.000 ppm Matrix : Nitric acid	100 ml	504065	735
Yttrium standard solution	conc. 10.000 ppm Matrix : Nitric acid	500 ml	504067	735
Zinc standard solution	conc. 10.000 ppm Matrix : Hydrochloric acid	100 ml	504085	737
Zinc standard solution	conc. 10.000 ppm Matrix : Hydrochloric acid	500 ml	504087	737
Zirconium standard solution	conc. 10.000 ppm Matrix : Hydrochloric acid and hydrofluoric acid	100 ml	504095	745
Zirconium standard solution	conc. 10.000 ppm Matrix : Hydrochloric acid and hydrofluoric acid	500 ml	504097	745

Monoelement Standard solutions 1.000 ppm for ICP

ICP is a widely used analytical technique for trace metal analysis. It is based on a simultaneous system which allows quick and convenient analyses for a large number of determinable elements. One of the latest technological advances in the area of coupled analytical techniques involves the optimization of the ICP-MS technique, a versatile and vital instrument for the quick and reliable analysis of trace and ultra-trace metals.
These standard solutions are obtained by dissolution of the metal, at a purity level of 99.99%, in an acid (usually nitric acid).
They are characterized by:
- Concentrations of 1.000 ppm;
- Guaranteed titer with its uncertainty;
- Raw materials selected and verified against N.I.S.T. Standard Reference Materials;
- Available in 100ml and 500ml polyethylene bottles;
- Certificate of analysis with references to the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval;
- Shelf life, for the unopened product package, is 3 years.

Description	Notes	Size	Code	Page
Aluminum standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	100 ml	503411	139
Aluminum standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	500 ml	503413	139
Antimony standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	100 ml	503891	169
Antimony standard solution	conc. 1.000 ppm Matrix : Nitric acid and hydrofluoric acid	100 ml	503899	169
Antimony standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	500 ml	503893	169
Antimony standard solution	conc. 1.000 ppm Matrix : Hydrofluoric acid and nitric acid	500 ml	503898	169
Arsenic standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	503421	172
Arsenic standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	503423	172
Barium standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	100 ml	503451	178
Barium standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	500 ml	503453	178
Beryllium standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	100 ml	503461	189
Beryllium standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	500 ml	503463	189
Bismuth standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	503471	191
Bismuth standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	503473	191
Boron standard solution	conc. 1.000 ppm Matrix : Water	100 ml	503441	196
Boron standard solution	conc. 1.000 ppm Matrix : Water	500 ml	503443	196
Cadmium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	503491	219
Cadmium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	503493	219
Calcium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	503481	221
Calcium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	503483	221
Cerium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	503501	237
Cerium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	503503	237
Cesium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	503531	239
Cesium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	503533	239
Chromium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	503521	251
Chromium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	503523	251
Cobalt standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	503511	256
Cobalt standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	503513	256
Copper standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	503541	260
Copper standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	503543	260
Dysprosium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	504231	305
Dysprosium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	504233	305
Erbium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	504241	309
Erbium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	504243	309
Europium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	503571	330
Europium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	503573	330
Gadolinium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	503601	344
Gadolinium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	503603	344
Germanium standard solution	conc. 1.000 ppm Matrix : Nitric acid and hydrofluoric acid	100 ml	504251	347
Germanium standard solution	conc. 1.000 ppm Matrix : Nitric acid and hydrofluoric acid	500 ml	504253	347
Gold standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	100 ml	503431	352
Gold standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	500 ml	503433	352
Hafnium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	504221	355
Hafnium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	504223	355
Holmium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	504261	367
Holmium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	504263	367
Indium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	503651	395

Description	Notes	Size	Code	Page
Indium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	503653	395
Iron standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	503581	400
Iron standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	503583	400
Lanthanum standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	503681	423
Lanthanum standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	503683	423
Lead standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	503801	425
Lead standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	503803	425
Lithium standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	100 ml	503691	431
Lithium standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	500 ml	503693	431
Lutetium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	503611	436
Lutetium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	503613	436
Magnesium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	503711	437
Magnesium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	503713	437
Manganese standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	503721	447
Manganese standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	503723	447
Mercury standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	503631	452
Mercury standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	503633	452
Molybdenum standard solution	conc. 1.000 ppm Matrix : Ammonium hydroxide	100 ml	503731	476
Molybdenum standard solution	conc. 1.000 ppm Matrix : Ammonium hydroxide	500 ml	503733	476
Neodymium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	503761	484
Neodymium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	503763	484
Nickel standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	503771	485
Nickel standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	503773	485
Niobium standard solution	conc. 1.000 ppm Matrix : Nitric acid and hydrofluoric acid	100 ml	503751	490
Niobium standard solution	conc. 1.000 ppm Matrix : Nitric acid and hydrofluoric acid	500 ml	503753	490
Palladium standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	100 ml	503811	508
Palladium standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	500 ml	503813	508
Phosphorus standard solution	conc. 1.000 ppm Matrix : Water	100 ml	503791	531
Phosphorus standard solution	conc. 1.000 ppm Matrix : Water	500 ml	503793	531
Platinum standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	100 ml	503831	534
Platinum standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	500 ml	503833	534
Potassium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	503671	536
Potassium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	503673	536
Praseodymium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	503821	571
Praseodymium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	503823	571
Rhodium standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	100 ml	503861	588
Rhodium standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	500 ml	503863	588
Rubidium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	503841	590
Rubidium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	503843	590
Ruthenium standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	100 ml	503871	591
Ruthenium standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	500 ml	503873	591
Samarium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	503931	593
Samarium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	503933	593
Scandium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	503901	595
Scandium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	503903	595
Selenium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	503911	596
Selenium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	503913	596
Silicon standard solution	conc. 1.000 ppm Matrix : Water	100 ml	503921	600

Description	Notes	Size	Code	Page
Silicon standard solution	conc. 1.000 ppm Matrix : Nitric acid and hydrofluoric acid	100 ml	504271	600
Silicon standard solution	conc. 1.000 ppm Matrix : Water	500 ml	503923	600
Silicon standard solution	conc. 1.000 ppm Matrix : Nitric acid and hydrofluoric acid	500 ml	504273	600
Silver standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	503401	602
Silver standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	503403	602
Sodium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	503741	609
Sodium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	503743	609
Strontium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	503951	667
Strontium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	503953	667
Sulfur standard solution	conc. 1.000 ppm Matrix : Water	100 ml	504291	675
Sulfur standard solution	conc. 1.000 ppm Matrix : Water	500 ml	504293	675
Tantalum standard solution	conc. 1.000 ppm Matrix : Nitric acid and hydrofluoric acid	100 ml	503961	688
Tantalum standard solution	conc. 1.000 ppm Matrix : Nitric acid and hydrofluoric acid	500 ml	503963	688
Tellurium standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	100 ml	503981	690
Tellurium standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	500 ml	503983	690
Terbium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	503971	690
Terbium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	503973	690
Thallium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	504011	697
Thallium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	504013	697
Thorium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	504281	699
Thorium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	504283	699
Tin standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	100 ml	503941	702
Tin standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	500 ml	503943	702
Titanium standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid and hydrofluoric acid	100 ml	504001	705
Titanium standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid and hydrofluoric acid	500 ml	504003	705
Tungsten standard solution	conc. 1.000 ppm Matrix : 4% ammonia	100 ml	504051	723
Tungsten standard solution	conc. 10.000 ppm Matrix : Water	100 ml	504058	723
Tungsten standard solution	conc. 1.000 ppm Matrix : 4% ammonia	500 ml	504053	723
Uranium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	504031	724
Uranium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	504033	724
Vanadium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	504041	725
Vanadium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	504043	725
Ytterbium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	504071	735
Ytterbium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	504073	735
Yttrium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	504061	735
Yttrium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	504063	735
Zinc standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	100 ml	504081	737
Zinc standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	500 ml	504083	737
Zirconium standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid and hydrofluoric acid	100 ml	504091	745
Zirconium standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid and hydrofluoric acid	500 ml	504093	745

Monoelement Standard solutions 1.000 ppm for ICP-MS

These standard solutions are obtained by dissolution of the metal, at a purity level of 99.999%, in an acid (usually nitric acid).
They are characterized by:
- Concentrations of 1.000 ppm
- Guaranteed titer with its uncertainty
- Raw materials selected and verified against N.I.S.T. Standard Reference Materials and packaged in a cleanroom

- Available in 100ml LDPE bottles
- Certificate of analysis with references to the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval
- Shelf life, for the unopened product package, of 2 years

Description	Notes	Size	Code	Page
Aluminum standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	505309	138
Antimony standard solution	conc. 1.000 ppm Matrix : Nitric acid and hydrofluoric acid	100 ml	505833	169
Arsenic standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	505313	171
Barium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	505329	178
Beryllium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	505333	189
Bismuth standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	505339	191
Boron standard solution	conc. 1.000 ppm Matrix : Water	100 ml	505323	195
Cadmium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	505549	219
Calcium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	505543	221
Chromium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	505569	251
Cobalt standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	505563	256
Copper standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	505579	260
Gallium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	505619	345
Germanium standard solution	conc. 1.000 ppm Matrix : Nitric acid and hydrofluoric acid	100 ml	505633	347
Gold standard solution	conc. 100 ppm Matrix : Hydrochloric acid	100 ml	505319	352
Indium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	505663	395
Iron standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	505613	400
Lanthanum standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	505693	423
Lead standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	505769	425
Lithium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	505703	431
Lutetium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	505709	436
Magnesium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	505713	437
Manganese standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	505719	447
Mercury standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	505654	451
Molybdenum standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	505723	475
Nickel standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	505753	485
Phosphorus standard solution	conc. 1.000 ppm Matrix : Water	100 ml	505763	531
Platinum standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	100 ml	505789	534
Potassium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	505683	536
Rhodium standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	100 ml	505809	588
Scandium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	505839	594
Selenium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	505843	596
Silver standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	505303	601
Sodium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	505733	609
Strontium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	505869	667
Sulfur standard solution	conc. 1.000 ppm Matrix : Water	100 ml	505823	674
Terbium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	505883	690
Thallium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	505913	696
Tin standard solution	conc. 1.000 ppm Matrix : Nitric acid and hydrofluoric acid	100 ml	505863	702
Titanium standard solution	conc. 1.000 ppm Matrix : Hydrofluoric acid and nitric acid	100 ml	505909	705
Vanadium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	505929	725
Yttrium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	505943	735
Zinc standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	505953	737

Monoelement Standard solutions 100 ppm for ICP-MS

These standard solutions are obtained by dissolution of the metal, at a purity level of 99.999%, in an acid (usually nitric acid).
They are characterized by:
- Concentrations of 100 ppm
- Guaranteed titer with its uncertainty
- Raw materials selected and verified against N.I.S.T. Standard Reference Materials and packaged in a cleanroom
- Available in 100ml LDPE bottles
- Certificate of analysis with references to the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval
- Shelf life, for the unopened product package, of 2 years

Description	Notes	Size	Code	Page
Aluminum standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505308	138
Antimony standard solution	conc. 100 ppm Matrix : Nitric acid and hydrofluoric acid	100 ml	505835	169
Arsenic standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505315	171
Barium standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505328	178
Beryllium standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505335	189
Bismuth standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505338	191
Boron standard solution	conc. 100 ppm Matrix : Water	100 ml	505325	195
Cadmium standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505548	219
Calcium standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505545	221
Cerium standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505555	236
Cesium standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505575	239
Chromium standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505568	251
Cobalt standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505565	256
Copper standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505578	260
Dysprosium standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505585	305
Erbium standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505595	309
Europium standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505605	330
Gadolinium standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505625	344
Gallium standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505618	345
Germanium standard solution	conc. 100 ppm Matrix : Nitric acid and hydrofluoric acid	100 ml	505635	347
Gold standard solution	conc. 100 ppm Matrix : Hydrochloric acid	100 ml	505318	352
Hafnium standard solution	conc. 100 ppm Matrix : Nitric acid and hydrofluoric acid	100 ml	505645	355
Holmium standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505658	367
Indium standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505665	395
Iridium standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505675	400
Iron standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505615	400
Lanthanum standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505695	423
Lead standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505768	425
Lithium standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505705	431
Lutetium standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505708	436
Magnesium standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505715	437
Manganese standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505718	447
Mercury standard solution	conc. 100 ppm Matrix : Hydrochloric acid	100 ml	505655	451
Mercury standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	506918	451
Molybdenum standard solution	conc. 100 ppm Matrix : Nitric acid and hydrofluoric acid	100 ml	505725	475
Neodymium standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505745	483
Nickel standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505755	485
Niobium standard solution	conc. 100 ppm Matrix : Nitric acid and hydrofluoric acid	100 ml	505738	490
Osmium standard solution	conc. 100 ppm Matrix : Hydrochloric acid	100 ml	505758	505

Description	Notes	Size	Code	Page
Palladium standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505775	508
Phosphorus standard solution	conc. 100 ppm Matrix : Water	100 ml	505765	531
Platinum standard solution	conc. 100 ppm Matrix : Hydrochloric acid	100 ml	505788	534
Potassium standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505685	536
Praseodymium standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505785	571
Rhenium standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505805	588
Rhodium standard solution	conc. 100 ppm Matrix : Hydrochloric acid	100 ml	505808	588
Rubidium standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505795	590
Ruthenium standard solution	conc. 100 ppm Matrix : Hydrochloric acid	100 ml	505815	591
Samarium standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505855	593
Scandium standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505838	594
Selenium standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505845	596
Silicon standard solution	conc. 100 ppm Matrix : Water	100 ml	505848	600
Silver standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505305	601
Sodium standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505735	609
Strontium standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505868	667
Sulfur standard solution	conc. 100 ppm Matrix : Water	100 ml	505825	674
Tantalum standard solution	conc. 100 ppm Matrix : Nitric acid and hydrofluoric acid	100 ml	505875	687
Tellurium standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505888	690
Terbium standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505885	690
Thallium standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505915	696
Thulium standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505918	699
Tin standard solution	conc. 100 ppm Matrix : Hydrofluoric acid and nitric acid	100 ml	505865	702
Titanium standard solution	conc. 100 ppm Matrix : Nitric acid and hydrofluoric acid	100 ml	505908	705
Tungsten standard solution	conc. 100 ppm. Matrix : Ammonium hydroxyde	100 ml	505935	722
Uranium standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505923	724
Vanadium standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505928	725
Ytterbium standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505948	735
Yttrium standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505945	735
Zinc standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505955	737
Zirconium standard solution	conc. 100 ppm Matrix : Nitric acid and hydrofluoric acid	100 ml	505958	745

Monoelement Standard solutions 10 ppm for ICP-MS

These standard solutions are obtained by dissolution of the metal, at a purity level of 99.999%, in an acid (usually nitric acid).
They are characterized by:
- Concentrations of 10 ppm
- Guaranteed titer with its uncertainty
- Raw materials selected and verified against N.I.S.T. Standard Reference Materials and packaged in a cleanroom
- Available in 100ml LDPE bottles
- Certificate of analysis with references to the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval
- Shelf life, for the unopened product package, of 2 years

Description	Notes	Size	Code	Page
Aluminum standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505307	138
Antimony standard solution	conc. 10 ppm Matrix : Nitric acid and hydrofluoric acid	100 ml	505832	169
Arsenic standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505312	171
Barium standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505327	178
Beryllium standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505332	189
Bismuth standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505337	191

Description	Notes	Size	Code	Page
Boron standard solution	conc. 10 ppm Matrix : Water	100 ml	505322	195
Cadmium standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505547	219
Calcium standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505542	221
Cerium standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505552	236
Cesium standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505572	239
Chromium standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505567	251
Cobalt standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505562	256
Copper standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505577	260
Dysprosium standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505582	305
Erbium standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505592	309
Europium standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505602	330
Gadolinium standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505622	344
Gallium standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505617	345
Germanium standard solution	conc. 10 ppm Matrix : Nitric acid and hydrofluoric acid	100 ml	505632	347
Gold standard solution	conc. 10 ppm Matrix : Hydrochloric acid	100 ml	505317	352
Hafnium standard solution	conc. 10 ppm Matrix : Nitric acid and hydrofluoric acid	100 ml	505642	355
Holmium standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505657	367
Indium standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505662	395
Iridium standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505672	400
Iron standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505612	400
Lanthanum standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505692	423
Lead standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505767	425
Lithium standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505702	431
Lutetium standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505707	436
Magnesium standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505712	437
Manganese standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505717	447
Mercury standard solution	conc. 10 ppm Matrix : Hydrochloric acid	100 ml	505652	451
Molybdenum standard solution	conc. 10 ppm Matrix : Nitric acid and hydrofluoric acid	100 ml	505722	475
Neodymium standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505742	483
Nickel standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505752	485
Niobium standard solution	conc. 10 ppm Matrix : Nitric acid and hydrofluoric acid	100 ml	505737	490
Palladium standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505772	508
Phosphorus standard solution	conc. 10 ppm Matrix : Water	100 ml	505762	531
Platinum standard solution	conc. 10 ppm Matrix : Hydrochloric acid	100 ml	505787	534
Potassium standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505682	536
Praseodymium standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505782	571
Rhenium standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505802	588
Rhodium standard solution	conc. 10 ppm Matrix : Hydrochloric acid	100 ml	505807	588
Rubidium standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505792	590
Ruthenium standard solution	conc. 10 ppm Matrix : Hydrochloric acid	100 ml	505812	591
Samarium standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505852	593
Scandium standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505837	594
Selenium standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505842	596
Silicon standard solution	conc. 10 ppm Matrix : Water	100 ml	505847	600
Silver standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505302	601
Sodium standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505732	609
Strontium standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505867	667
Sulfur standard solution	conc. 10 ppm Matrix : Water	100 ml	505822	674

Description	Notes	Size	Code	Page
Tantalum standard solution	conc. 10 ppm Matrix : Nitric acid and hydrofluoric acid	100 ml	505872	687
Tellurium standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505887	690
Terbium standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505882	690
Thallium standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505912	696
Thulium standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505917	699
Tin standard solution	conc. 10 ppm Matrix : Nitric acid and hydrofluoric acid	100 ml	505862	702
Titanium standard solution	conc. 10 ppm Matrix : Nitric acid and hydrofluoric acid	100 ml	505907	705
Tungsten standard solution	conc. 10 ppm. Matrix : Ammonium hydroxyde	100 ml	505932	722
Uranium standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505922	724
Vanadium standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505927	725
Ytterbium standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505947	735
Yttrium standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505942	735
Zinc standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505952	737
Zirconium standard solution	conc. 10 ppm Matrix : Nitric acid and hydrofluoric acid	100 ml	505957	745

PHARMACEUTICAL PRODUCTION

CARLO ERBA Reagents has always carefully monitored developments in the quality of raw materials and reagents used in the pharmaceutical industry. The experience gained in over 160 years as a supplier of raw materials and excipients and the countless approvals issued by the most important pharmaceutical multinationals have allowed CARLO ERBA Reagents to become a benchmark in the pharmaceutical industry worldwide, distinguishing itself for its premium quality and reliability.

ERBApharm: raw material and excipients

CARLO ERBA Reagents has developed the ERBApharm product line on the specific requests of the pharmaceutical market. Their specifications comply with the effective requirements of Pharmacopoeia or - in the absence of those requirements - with strict sales specifications. These products are designed to be used as raw materials, synthetic intermediates, reagents for the production of active principles, excepients and biopharma solutions.The ERBApharm line includes every kind of product: solvents, acids and basis, titrated solutions, organic and inorganic powders.
The documents available for these products comply with the need of traceability related to their use (confidentiality agreement, name of manufacturer, control charts, residual solvents, metals, BSE/TSE declaration, GMO, allergens and fulfilment of the change control system).

Description	Notes	Size	Code	Page
Acetic acid glacial		1 l	302016	120
Acetic acid glacial		2.5 l	302011	120
Acetic acid glacial		5 l	302014	120
Acetic acid glacial		30 kg	302015	120
Acetic acid glacial		200 kg	302013	120
Acetone		1 l	301505	128
Acetone		2.5 l	301506	128
Acetone		5 l	301502	128
Acetone		5 l	301503	128
Acetone		16 kg	301501	128
Acetone		22 kg	301504	128
Acetone		160 kg	301507	128
Aluminum chloride hexahydrate		1 kg	311257	140
Aluminum chloride hexahydrate		5 kg	311252	140
Aluminum chloride hexahydrate		50 kg	311254	140
Aluminum potassium sulfate dodecahydrate		1 kg	312401	143
Aluminum potassium sulfate dodecahydrate		5 kg	312404	143
Aluminum potassium sulfate dodecahydrate		10 kg	312402	143
p-Aminobenzoic acid		100 g	391804	145
Ammonia solution 28%		1 l	314861	148
Ammonia solution 28%		2 l	314863	148
Ammonia solution 28%		25 kg	314866	148
Ammonium carbonate		1 kg	313887	154
Ammonium carbonate		5 kg	313889	154
Ammonium chloride		1 kg	313957	155
Ammonium chloride		2.5 kg	313952	155
Ammonium chloride		5 kg	313956	155
Ammonium chloride		25 kg	313951	155
Ammonium chloride		50 kg	313954	155
Benzalkonium chloride		1 kg	322737	185
Benzalkonium chloride		5 kg	322738	185
Benzoic acid		1 kg	302087	187
Benzoic acid		5 kg	302089	187
Benzoic acid		25 kg	302082	187
Benzyl alcohol		1 l	308131	188
Benzyl alcohol		2.5 l	308132	188
Benzyl alcohol		23 kg	308138	188
Benzyl benzoate		1 l	323101	189

Description	Notes	Size	Code	Page
Benzyl benzoate		2.5 l	323102	189
Boric acid		25 kg	302185	193
Boric acid		1 kg	302177	194
Boric acid		5 kg	302179	194
Boric acid		25 kg	302178	194
Caffeine anhydrous		500 g	326356	221
Caffeine anhydrous		1 kg	326357	221
Caffeine anhydrous		25 kg	326358	221
Calcium acetate anhydrous		1 kg	326511	222
Calcium acetate anhydrous		5 kg	326512	222
Calcium acetate anhydrous		25 kg	326513	222
Calcium carbonate		1 kg	327101	224
Calcium carbonate		25 kg	327105	224
Calcium chloride dihydrate		1 kg	327607	225
Calcium chloride dihydrate		5 kg	327609	225
Calcium chloride dihydrate		25 kg	327603	225
Calcium chloride hexahydrate		1 kg	327507	226
Calcium chloride hexahydrate		5 kg	327509	226
Calcium gluconate		1 kg	330608	227
Calcium gluconate		5 kg	330609	227
Calcium hydroxide		1 kg	331007	227
Calcium hydroxide		5 kg	331008	227
Calcium hydroxide		25 kg	331003	227
Calcium lactate		1 kg	331407	228
Calcium lactate		5 kg	331408	228
Calcium phosphate dibasic dihydrate		1 kg	330307	229
Calcium phosphate dibasic dihydrate		25 kg	330303	229
Calcium phosphate tribasic		1 kg	330407	230
Calcium phosphate tribasic		5 kg	330409	230
Calcium phosphate tribasic		25 kg	330403	230
Calcium stearate		2.5 kg	332262	231
Calcium stearate		10 kg	332261	231
Calcium stearate		25 kg	332265	231
Calcium sulfate dihydrate		5 kg	331752	231
Calcium sulfate dihydrate		25 kg	331751	231
Camphor natural		500 g	332356	233
Camphor synthetic		500 g	332406	233
Camphor synthetic		25 kg	332402	233
Castor oil		1 l	356351	236
Castor oil		5 l	356352	236
Castor oil		28 kg	356353	236
Cetyl alcohol		1 kg	308357	241
Cetyl alcohol		5 kg	308358	241
Cetyl alcohol		25 kg	308359	241
Chlorobutanol		1 kg	301357	245
Chlorobutanol		5 kg	301356	245
Chloroform		1 l	334351	248
Chloroform		2.5 l	334353	248
Chloroform		25 kg	334356	248
Chloroform		40 kg	334355	248
Chloroform		200 l	529301	248

Description	Notes	Size	Code	Page
Chloroform		250 kg	334354	248
Citric acid anhydrous		500 g	302486	255
Citric acid anhydrous		1 kg	302487	255
Citric acid anhydrous		5 kg	302485	255
Citric acid anhydrous		25 kg	302488	255
Citric acid anhydrous		50 kg	302484	255
Citric acid monohydrate		1 kg	302557	255
Citric acid monohydrate		5 kg	302559	255
Citric acid monohydrate		25 kg	302551	255
Citric acid monohydrate		50 kg	302554	255
Citric acid monohydrate		1 kg	302507	256
Citric acid monohydrate		5 kg	302509	256
Citric acid monohydrate		25 kg	302501	256
Citric acid monohydrate		50 kg	302504	256
Copper (II) sulfate pentahydrate		1 kg	364757	265
Copper (II) sulfate pentahydrate		5 kg	364759	265
Copper (II) sulfate pentahydrate		25 kg	364752	265
Dichloromethane		1 l	354501	284
Dichloromethane		1 l	337331	285
Dichloromethane		2.5 l	337333	285
Dichloromethane		25 l	337335	285
Dichloromethane		200 l	337337	285
Dichloromethane		2.5 l	525320	285
Dichloromethane		200 l	525321	285
Diethanolamine		220 kg	337801	287
Diethyl ether		40 x 100 g	340731	290
Diethyl ether		1 l	340751	290
Diethyl ether		20 kg	340752	290
Diethyl ether		140 kg	340759	290
Diethyl phthalate		1 l	338112	291
Diethyl phthalate		2.5 l	338115	291
Diethyl phthalate		30 kg	338113	291
Diethyl phthalate		200 l	338114	291
Ethanol absolute anhydrous		1 l	529121	313
Ethanol absolute anhydrous	Only for Italian market	2.5 l	308661	313
Ethanol absolute anhydrous	Only for Italian market	2.5 l	308662	313
Ethanol absolute anhydrous		2.5 l	3086612	313
Ethanol absolute anhydrous		2.5 l	3086622	313
Ethanol absolute anhydrous		5 l	529122	313
Ethanol absolute anhydrous		10 l	529124	313
Ethanol absolute anhydrous		25 l	308664	313
Ethanol absolute anhydrous		25 l	308667	313
Ethanol absolute anhydrous		200 l	308663	313
Ethanol absolute anhydrous		200 l	529125	313
Ethanol 96°		5 l	524135	315
Ethanol 96°		25 l	524132	315
Ethanol 96°	Only for Italian market	1 l	308644	315
Ethanol 96°	Only for Italian market	1 l	308647	315
Ethanol 96°		1 l	3086442	315
Ethanol 96°		1 l	3086472	315
Ethanol 96°	Only for Italian market	2.5 l	308641	315

Description	Notes	Size	Code	Page
Ethanol 96°	Only for Italian market	2.5 l	308649	315
Ethanol 96°		2.5 l	3086412	315
Ethanol 96°		2.5 l	3086492	315
Ethanol 96°		5 l	529141	315
Ethanol 96°		10 l	308646	315
Ethanol 96°		25 l	308645	315
Ethanol 96°		27 l	308648	315
Ethanol 96°		200 l	308640	315
Ethanol 70 % v/v	20 units / box	500 ml	529187	315
Ethanol 70 % v/v		5 l	529189	315
Ethanol 70 % v/v		200 l	529183	315
Ethanol 70 % v/v	6 units / box	1 l	529184	316
Ethyl acetate		1 l	341506	322
Ethyl acetate		2.5 l	341503	322
Ethyl acetate		24 kg	341502	322
Ethyl acetate		25 l	529221	322
Ethyl acetate		200 l	529222	322
Ethylenediaminetetraacetic acid		5 kg	303251	323
Ethylenediaminetetraacetic acid		25 kg	303252	323
Ethylenediaminetetraacetic acid disodium salt		1 kg	303201	324
Ethylenediaminetetraacetic acid disodium salt		5 kg	303203	324
Ethylenediaminetetraacetic acid disodium salt		25 kg	303202	324
Ethylenediaminetetraacetic acid disodium salt		1 kg	303227	324
Ethylenediaminetetraacetic acid disodium salt		5 kg	303226	324
Ethylenediaminetetraacetic acid disodium salt		25 kg	303225	324
Formaldehyde 35% w/w		1 l	310351	337
Formaldehyde 35% w/w		2.5 l	310356	337
Formaldehyde 35% w/w		5 l	310358	337
Formaldehyde 35% w/w		10 kg	310349	337
Formaldehyde 35% w/w		30 kg	310348	337
Formaldehyde 35% w/w		55 kg	310355	337
Formic acid 99%		1 l	303911	341
Formic acid 99%		2.5 l	303912	341
Formic acid 99%		30 kg	303913	341
D(+)Glucose anhydrous		1 kg	346987	348
D(+)Glucose anhydrous		5 kg	346989	348
D(+)Glucose anhydrous		25 kg	346983	348
D(+)Glucose monohydrate		1 kg	346971	348
D(+)Glucose monohydrate		5 kg	346972	348
D(+)Glucose monohydrate		25 kg	346973	348
Glycerol (30°Bé)		1 l	346161	350
Glycerol (30°Bé)		2.5 l	346165	350
Glycerol (30°Bé)		35 kg	346164	350
Glycerol (30°Bé)		250 kg	346167	350
Glycine		1 kg	346207	351
Glycine		5 kg	346205	351
Glycine		25 kg	346208	351
Gum arabic		1 kg	347107	354
Hydrochloric acid 37%		1 l	302621	371
Hydrochloric acid 37%		2.5 l	302626	371
Hydrochloric acid 37%		5 l	302643	371

Description	Notes	Size	Code	Page
Hydrochloric acid 37%		10 l	302624	371
Hydrochloric acid 37%		25 kg	302623	371
Hydrochloric acid 37%		40 kg	302622	371
Hydrochloric acid 37%		55 kg	302627	371
Hydrochloric acid 37%		220 kg	302625	371
Hydrochloric acid 10%		10 kg	302591	375
Hydrogen peroxide solution 30%		25 kg	307685	388
Hydrogen peroxide solution 3%		1 l	307671	389
Hydrogen peroxide solution 3%		50 kg	307678	389
Iodine		100 g	348454	397
Iodine		250 g	348455	397
Iodine		1 kg	348457	397
Iodine		5 kg	348451	397
Iodine		20 kg	348452	397
Iron (II) sulfate heptahydrate		1 kg	344957	407
Iron (II) sulfate heptahydrate		5 kg	344959	407
Lactic acid		1 l	304652	422
Lactic acid		2.5 l	304651	422
Lactic acid		25 kg	304653	422
Lactose		1 kg	348707	423
Lactose		5 kg	348708	423
Lactose		10 kg	348702	423
Lactose		25 kg	348703	423
Lanolin anhydrous		1 kg	347357	423
Lanolin anhydrous		5 kg	347359	423
Lanolin anhydrous		50 kg	347354	423
Magnesium carbonate basic		1 kg	349257	439
Magnesium carbonate basic		5 kg	349279	439
Magnesium chloride hexahydrate		1 kg	349357	440
Magnesium chloride hexahydrate		5 kg	349359	440
Magnesium chloride hexahydrate		25 kg	349355	440
Magnesium oxide heavy		1 kg	349655	442
Magnesium oxide heavy		5 kg	349656	442
Magnesium oxide heavy		25 kg	349653	442
Magnesium stearate		2.5 kg	350032	443
Magnesium stearate		25 kg	350035	443
Magnesium sulfate heptahydrate		1 kg	349852	444
Magnesium sulfate heptahydrate		5 kg	349859	444
Magnesium sulfate heptahydrate		25 kg	349851	444
Maize starch		1 kg	313071	444
Maize starch		5 kg	313072	444
Maize starch		25 kg	313073	444
Maleic acid		500 g	407266	445
Maleic acid		5 kg	407261	445
Maleic acid		25 kg	407263	445
D-Mannitol		1 kg	352051	450
D-Mannitol		5 kg	352052	450
D-Mannitol		25 kg	352053	450
L-Menthol		50 g	352103	451
L-Menthol		500 g	352106	451
Methanol		1 l	309204	458

Description	Notes	Size	Code	Page
Methanol		2.5 l	309203	458
Methanol		25 l	309201	458
Methanol		200 l	529100	458
Methyl 4-hydroxybenzoate		1 kg	354007	465
Methyl 4-hydroxybenzoate		5 kg	354008	465
Methyl salicylate		1 l	354152	470
Methyl salicylate		25 kg	354155	470
Nicotinamide		100 g	392304	488
Nicotinamide		1 kg	392307	488
Oil refined of almonds		1 l	356251	501
Orthophosphoric acid 85%		1 l	304061	504
Orthophosphoric acid 85%		2.5 l	304062	504
Orthophosphoric acid 85%		40 kg	304063	504
Paraffin oil		1 l	356601	511
Paraffin oil		5 l	356608	511
Paraffin oil		23 kg	356603	511
Paraffin oil		180 kg	356607	511
Paraffin white soft		1 kg	388407	511
Paraffin white soft		5 kg	388409	511
Phenol		1 kg	343407	524
2-Phenylethanol		1 l	529022	527
2-Phenylethanol		2.4 l	529021	527
Potassium acetate		1 kg	358907	537
Potassium acetate		5 kg	358908	537
Potassium acetate		25 kg	358903	537
Potassium bromide		1 kg	359707	539
Potassium bromide		5 kg	359702	539
Potassium chloride		1 kg	360107	540
Potassium chloride		5 kg	360109	540
Potassium chloride		25 kg	360106	540
Potassium chloride		50 kg	360104	540
Potassium citrate tribasic monohydrate		500 g	359956	544
Potassium citrate tribasic monohydrate		2.5 kg	359958	544
Potassium hydroxide, flakes		25 kg	362201	551
Potassium hydroxide, pellets		1 kg	362237	552
Potassium hydroxide, pellets		5 kg	362239	552
Potassium hydroxide, pellets		25 kg	362235	552
Potassium iodide		250 g	362405	559
Potassium iodide		1 kg	362407	559
Potassium iodide		5 kg	362409	559
Potassium iodide		10 kg	362403	559
Potassium iodide		25 kg	362402	559
Potassium metabisulfite		1 kg	362627	560
Potassium metabisulfite		5 kg	362629	560
Potassium metabisulfite		10 kg	362622	560
Potassium metabisulfite		25 kg	362623	560
Potassium nitrate		1 kg	363007	561
Potassium nitrate		5 kg	363009	561
Potassium nitrate		25 kg	363002	561
Potassium permanganate		1 kg	363107	563
Potassium permanganate		5 kg	363109	563

Description	Notes	Size	Code	Page
Potassium permanganate		25 kg	363101	563
Potassium phosphate monobasic		1 kg	361507	566
Potassium phosphate monobasic		5 kg	361509	566
Potassium phosphate monobasic		25 kg	361503	566
Potassium sodium tartrate tetrahydrate		1 kg	363457	568
Potassium sodium tartrate tetrahydrate		5 kg	363459	568
Potassium sodium tartrate tetrahydrate		50 kg	363454	568
Propan-2-ol		1 l	309501	576
Propan-2-ol		2.5 l	309505	576
Propan-2-ol		5 l	529165	576
Propan-2-ol		10 l	309506	576
Propan-2-ol		25 l	309504	576
Propan-2-ol		25 l	309507	576
Propan-2-ol		160 kg	309503	576
Propan-2-ol		200 l	309500	576
Propan-2-ol		200 l	309509	576
Propan-2-ol 70%		5 l	524195	577
Propyl p-hydroxybenzoate		50 g	363953	579
Propyl p-hydroxybenzoate		500 g	363956	579
Propylene glycol		1 l	346701	579
Propylene glycol		2.5 l	346703	579
Propylene glycol		60 kg	346705	579
Propylene glycol		200 kg	346708	579
Rice starch		1 kg	313107	589
Rice starch		2.5 kg	313108	589
Rice starch		5 kg	313109	589
Rice starch		25 kg	313102	589
Rice starch		50 kg	313104	589
Salicylic acid		1 kg	306381	592
Salicylic acid		1 kg	306377	593
Silver nitrate		100 g	320904	604
Silver nitrate		1 kg	320907	604
Sodium acetate anhydrous		1 kg	366377	610
Sodium acetate anhydrous		5 kg	366372	610
Sodium acetate anhydrous		25 kg	366371	610
Sodium acetate trihydrate		1 kg	366207	611
Sodium acetate trihydrate		5 kg	366209	611
Sodium acetate trihydrate		25 kg	366205	611
Sodium alginate		100 g	366551	611
Sodium alginate		1 kg	366552	611
Sodium alginate		5 kg	366553	611
Sodium benzoate		1 kg	366757	613
Sodium benzoate		5 kg	366759	613
Sodium benzoate		25 kg	366754	613
Sodium bicarbonate		1 kg	366908	614
Sodium bicarbonate		5 kg	366909	614
Sodium bicarbonate		25 kg	366902	614
Sodium bicarbonate		50 kg	366904	614
Sodium bromide		1 kg	367357	615
Sodium bromide		5 kg	367359	615
Sodium carbonate anhydrous		1 kg	367707	616

Description	Notes	Size	Code	Page
Sodium carbonate anhydrous		5 kg	367703	616
Sodium carbonate anhydrous		50 kg	367704	616
Sodium carbonate decahydrate		1 kg	367608	617
Sodium carbonate decahydrate		5 kg	367609	617
Sodium carbonate decahydrate		25 kg	367601	617
Sodium carbonate decahydrate		50 kg	367604	617
Sodium carbonate monohydrate		1 kg	367691	617
Sodium carbonate monohydrate		5 kg	367692	617
Sodium carbonate monohydrate		25 kg	367693	617
Sodium carbonate monohydrate		50 kg	367694	617
Sodium chloride		10 kg	368281	619
Sodium chloride		1 kg	368257	619
Sodium chloride		5 kg	368259	619
Sodium chloride		25 kg	368253	619
Sodium citrate dibasic sesquihydrate		1 kg	367951	620
Sodium citrate tribasic anhydrous		1 kg	368107	620
Sodium citrate tribasic dihydrate		1 kg	368057	621
Sodium citrate tribasic dihydrate		5 kg	368058	621
Sodium citrate tribasic dihydrate		10 kg	368052	621
Sodium citrate tribasic dihydrate		25 kg	368051	621
Sodium citrate tribasic dihydrate		50 kg	368054	621
Sodium glycerophosphate pentahydrate		1 kg	369447	624
Sodium glycerophosphate pentahydrate		5 kg	369449	624
Sodium hydroxide, pearls		1 kg	369743	626
Sodium hydroxide, pearls		5 kg	369741	626
Sodium hydroxide, pearls		25 kg	369742	626
Sodium hydroxide, pearls		25 kg	369744	626
Sodium hydroxide, pellets		1 kg	369777	627
Sodium hydroxide, pellets		5 kg	369772	627
Sodium hydroxide, pellets		20 kg	369771	627
Sodium hydroxide, pellets		25 kg	369774	627
Sodium iodide		250 g	370305	639
Sodium iodide		1 kg	370307	639
Sodium iodide		5 kg	370309	639
Sodium metabisulfite		1 kg	370751	640
Sodium metabisulfite		2.5 kg	370752	640
Sodium metabisulfite		25 kg	370753	640
Sodium nitrite		1 kg	371901	642
Sodium nitrite		5 kg	371902	642
Sodium nitrite		25 kg	371903	642
Sodium phosphate dibasic anhydrous		1 kg	369212	646
Sodium phosphate dibasic anhydrous		5 kg	369213	646
Sodium phosphate dibasic anhydrous		25 kg	369211	646
Sodium phosphate dibasic dihydrate		5 kg	369185	646
Sodium phosphate dibasic dodecahydrate		1 kg	369158	647
Sodium phosphate dibasic dodecahydrate		5 kg	369159	647
Sodium phosphate dibasic dodecahydrate		25 kg	369152	647
Sodium phosphate dibasic dodecahydrate		50 Kg	369154	647
Sodium phosphate monobasic dihydrate		1 kg	369138	648
Sodium phosphate monobasic dihydrate		5 kg	369139	648
Sodium phosphate monobasic dihydrate		25 kg	369132	648

Description	Notes	Size	Code	Page
Sodium phosphate monobasic monohydrate		1 kg	369143	648
Sodium phosphate monobasic monohydrate		5 kg	369141	648
Sodium phosphate monobasic monohydrate		25 kg	369142	648
Sodium salicylate		1 kg	373607	650
Sodium salicylate		25 kg	373603	650
Sodium sulfate anhydrous		1 kg	375713	652
Sodium sulfate anhydrous		25 kg	375716	652
Sodium sulfite anhydrous		1 kg	376006	653
Sodium sulfite anhydrous		2.5 kg	376008	653
Sodium sulfite anhydrous		5 kg	376009	653
Sodium sulfite anhydrous		10 kg	376002	653
Sodium sulfite anhydrous		25 kg	376003	653
Sodium sulfite anhydrous		50 kg	376004	653
Sodium tetraborate decahydrate		1 kg	367207	655
Sodium tetraborate decahydrate		5 kg	367209	655
Sodium tetraborate decahydrate		25 kg	367201	655
Sodium thiosulfate pentahydrate		1 kg	377907	656
Sodium thiosulfate pentahydrate		5 kg	377909	656
Sodium thiosulfate pentahydrate		25 kg	377901	656
Sorbitol		50 kg	379014	659
Sorbitol (no crystallizable) solution 70%		1 l	379021	659
Stearic acid		2.5 kg	307112	667
Stearic acid		25 kg	307115	667
D(+)-Sucrose		1 kg	365157	671
D(+)-Sucrose		5 kg	365158	671
D(+)-Sucrose		25 kg	365152	671
Sulfuric acid 96%		1 l	306651	677
Sulfuric acid 96%		2.5 l	306657	677
Sulfuric acid 96%		50 kg	306653	677
Talc		1 kg	382107	687
Talc		5 kg	382109	687
Talc		25 kg	382105	687
Tannic acid		1 kg	307157	687
Tannic acid		5 kg	307152	687
Tannic acid		25 kg	307153	687
L(+) Tartaric Acid		1 kg	307357	688
L(+) Tartaric Acid		5 kg	307359	688
L(+) Tartaric Acid		1 kg	307307	688
L(+) Tartaric Acid		5 kg	307309	688
L(+) Tartaric Acid		25 kg	307301	688
L(+) Tartaric Acid		50 kg	307304	688
Thymol		250 g	384205	699
Thymol		2.5 kg	384202	699
Titanium dioxide		1 kg	385751	706
Titanium dioxide		5 kg	385752	706
Titanium dioxide		25 kg	385753	706
Triethanolamine		1 l	386301	714
Triethanolamine		2.5 l	386303	714
Triethanolamine		30 kg	386304	714
Triethanolamine		220 kg	386305	714
Vanillin		100 g	388104	726

Description	Notes	Size	Code	Page
Vanillin		1 kg	388107	726
Vanillin		5 kg	388108	726
Water purified		10 l	307602	731
Water purified		25 kg	307603	731
Water purified		200 l	307604	731
Zinc oxide		1 kg	393507	742
Zinc oxide		5 kg	393509	742
Zinc oxide		25 kg	393503	742
Zinc stearate		1 kg	395451	742
Zinc stearate		10 kg	395452	742
Zinc sulfate heptahydrate		1 kg	394007	743
Zinc sulfate heptahydrate		5 kg	394009	743
Zinc sulfate heptahydrate		25 kg	394001	743

ERBApharm: Titrated and Diluted solutions manufactured from raw material according to Ph.Eur

CARLO ERBA Reagents provides a range of titrated and diluted solutions described (or not) in the monographs of European Pharmacopoeia. If there are not listed in it, CARLO ERBA Reagents is able to propose you the solution you need manufactured with raw materials conform to the required Pharmacopoeia, and with same guarantee of quality in terms of traceability, documentation and analysis. A feasibility study is carried out to meet your requirements.

Description	Notes	Size	Code	Page
Acetic acid 1 mol/l (1N)		1 l	524641	124
Ethanol 50% v/v		5 l	529261	316
Hydrochloric acid 5%		10 l	PS0864/41	376
Hydrochloric acid 6 mol/l (6N)		25 l	528651	376
Hydrochloric acid 4 mol/l (4N)		1 l	528681	377
Hydrochloric acid 2 mol/l (2N)		1 l	528691	378
Hydrochloric acid 1 mol/l (1N)		1 l	528583	379
Hydrochloric acid 1 mol/l (1N)		3 l	528582	379
Hydrochloric acid 1 mol/l (1N)		5 l	528584	379
Hydrochloric acid 0.1 mol/l (0.1N)		1 l	528661	381
Hydrochloric acid 0.1 mol/l (0.1N)		5 l	528662	381
Propan-2-ol 70%		1 l	524182	577
Propan-2-ol 70%	6 units / box	1 l	524183	577
Propan-2-ol 70%		2.5 l	524184	577
Propan-2-ol 70%		5 l	524181	577
Sodium hydroxide solution 30%		1 l	369704	629
Sodium hydroxide solution 30%		20 l	369702	629
Sodium hydroxide solution 30%		10 kg	369701000	629
Sodium hydroxide 3 mol/l (3N)		500 ml	524732	632
Sodium hydroxide 2 mol/l (2N)		1 l	524671	633
Sodium hydroxide 1 mol/l (1N)		1 l	524621	634
Sodium hydroxide 0.5 mol/l (N/2)		500 ml	524692	635
Sodium hydroxide 0.25 mol/l (N/4)		5 l	369812	635
Sodium hydroxide 0.1 mol/l (N/10)		1 l	524631	636

PHARMACEUTICAL QUALITY CONTROL

The European Pharmacopoeia defines, in chapters “2. Methods of analysis” and “4. Reagents”, the procedures and products suitable for the analysis of pharmaceutical raw materials or finished products.
CARLO ERBA Reagents offers a wide range of products, prepared according to the instructions set forth in the European Pharmacopoeia currently in force, which meet the specific needs of analysis and quality control laboratories in the pharmaceutical industry.
Our solutions are ready to use or to be diluted immediately prior to use, allowing significant time savings with guaranteed conformity with the European Pharmacopoeia (Ph.Eur.) requirements. To facilitate their identification, our reagents are named as indicated in the Pharmacopoeia and coded with their specific reference number preceded by the number 61.
The following is guaranteed for all our pharmacopoeia reagents and solutions:
• Shelf life ranging from 2 to 24 months
• No particular storage or transport conditions
• Certificate of analysis with the lot number, expiration date and declared conformity with the European Pharmacopoeia requirements
These reagents and solutions are for use during the analysis of pharmaceutical raw materials or finished products, and therefore should not be confused with the pharmacopoeia products.

Ph. Eur. Reagents, Chapter 2.2.1: Clarity and degree of opalescence of liquids

Description	Notes	Size	Code	Page
Primary opalescent suspension	Formazin suspension	100 ml	612201100	571

Ph. Eur. Reagents, Chapter 2.2.2: Degree of coloration of liquids

Description	Notes	Size	Code	Page
Hydrochloric acid, dilute	Dilution matrix HCl 10g/L	1 l	612202400	383
Primary solutions for degree of coloration of liquids	Yellow primary solution	100 ml	612202100	572
Primary solutions for degree of coloration of liquids	Red primary solution	100 ml	612202200	572
Primary solutions for degree of coloration of liquids	Blue primary solution	100 ml	612202300	572
Standard solutions for degree of coloration of liquids	Standard solution B (brown)	125 ml	612202510	666
Standard solutions for degree of coloration of liquids	Standard solution BY (brownish-yellow)	125 ml	612202520	666
Standard solutions for degree of coloration of liquids	Standard solution Y (yellow)	125 ml	612202530	666
Standard solutions for degree of coloration of liquids	Standard solution GY (greenish-yellow)	125 ml	612202540	666
Standard solutions for degree of coloration of liquids	Standard solution R (red)	125 ml	612202550	666

Ph. Eur. Reagents, Chapter 2.2.25: Absorption spectrophotometry, ultraviolet and visible

The European Pharmacopoeia defines in his “Analytical Methods” parts and especially in chapter 2.2.25, the calibration of spectrophotometers absorption in the ultraviolet and visible.
For each parameter, the method of analysis recommends to use diluted solutions.
Among the multiple benefits, here are the most importants:
• Reduces associated risk of handling some hazardous reagents
• Traceability according to NIST for raw material and instrumentation used to prepare and control the finish product
• Available in 100 ml amber bottles or permanently sealed cuvettes (possibility of re-calibration on request)
• Can be used with all UV-VIS Spectrophotometers

Description	Notes	Size	Code	Page
n-Hexane 99%	Spectrophotometry Bandwidth Blank	100 ml	506421	362
Holmium perchlorate in solution		10 ml	506472	368
Holmium perchlorate in solution		100 ml	506473	368
Potassium chloride 12g/l		10 ml	506432	541
Potassium chloride 12g/l		100 ml	506433	541
Potassium dichromate - Sulfuric acid solution	conc. 60 mg/l	10 ml	506442	545

Description	Notes	Size	Code	Page
Potassium dichromate - Sulfuric acid solution	conc. 600 mg/l	10 ml	506452	545
Potassium dichromate - Sulfuric acid solution	conc. 60 mg/l	100 ml	506443	545
Potassium dichromate - Sulfuric acid solution	conc. 600 mg/l	100 ml	506453	545
Sulfuric acid 0.0025 mol/l (0.005N)	Spectrophotometry Absorbance/Transmission Blank	100 ml	506401	685
Toluene in solution in hexane		10 ml	506462	709
Toluene in solution in hexane		100 ml	506463	709
Water	Spectrophotometry Stray Light Blank	100 ml	506411	729

Ph. Eur. Reagents, Chapter 2.2.3: Potentiometric determination of pH

Description	Notes	Size	Code	Page
Buffer pH 1.68	pH 1.68 at 25°C	500 ml	612203168	203
Buffer pH 4	pH 4.01 at 25°C	500 ml	612203401	205
Buffer pH 6.88	pH 6.87 at 25°C	500 ml	612203687	207
Buffer pH 7.4	pH 7.41 at 25°C	500 ml	612203741	208
Buffer pH 9.22	pH 9.18 at 25°C	500 ml	612203918	209

Ph. Eur. Reagents, Chapter 2.4.24: Identification and control of residual solvents

The International Conference on Harmonization (ICH) adopted the “Impurities: guidelines for residual solvents”, which sets the pharmaceutical limits for residual solvents in the manufacturing of drug substances, excipients, and drug products. The methods used to determine these limits are described in chapter 467 of the USP and 2.4.24 of the European Pharmacopeia.
Three classes of solvents are categorized:
Class 1: Solvents to be avoided (Known human carcinogens, strongly suspected human carcinogens, environmental hazards)
Class 2: Residual solvents (Solvents to be limited, nongenotoxic animal carcinogens or possible causative agents of other irreversible toxicity, such as neurotoxicity or teratogenicity. Solvents suspected of other significant but reversible toxicities.)
Class 3: Residual Solvents (Solvents with Low Toxic Potential. Solvents with low toxic potential to humans; no health-based exposure limit is needed. Class 3 residual solvents may have PDEs of up to 50 mg or more per day.)
CARLO ERBA Reagents developed a product line of mixture of class 1 and 2 solvents, offered at concentrations within the acceptable limit mentioned in chapter “5.4 - Residual solvents”. This allows you to control the amount of residual solvents in your starting material used in the manufacturing of drug products.
Advantages: delivered with a certificate of analysis guaranteeing total traceability :
- Lot number
- Expiration date
- CAS number of each component
- Molecular formula of each component
- Lot number of each starting material
- Concentration of each starting material
- Concentration variation limits

Description	Notes	Size	Code	Page
Mixtures for residual solvents analysis	5 elements (Class 1) : Benzene 4mg/ml; 1,2-Dichloroethane 10mg/ml; Tetrachloromethane 8mg/ml; 1,1-Dichloroethene 16mg/ml; 1,1,1-Tric hloroethane 20mg/ml; Matrix : Dimethylsulphoxide	1 ml	507688	474
Mixtures for residual solvents analysis	6 elements (Class 2) : Ethyleneglycol-monoethyl ether (2-Ethoxyethanol) 160mg/l; Ethyleneglycol 620mg/l; Formamide 220mg/l; Ethylene glycol-monomethyl ether (2-Methoxyethanol) 50mg/l; 1-Methyl-2-pyrrolidon 4840mg/l; Sulfolan 160mg/l; Matrix : Water	1 ml	507691	474

Ph. Eur. Reagents, Chapter 4.1.1: Reagents

Description	Notes	Size	Code	Page
Acetic acid 30%	Ref Ph.Eur 1000401	1 l	611000401	122
Acetic acid 12%	Ref Ph.Eur 1000402	1 l	611000402	123
Acetic anhydride	Acetic anhydride solution R1 Ref Ph.Eur 1000501	1 l	611000501	125

Description	Notes	Size	Code	Page
Aminohippuric acid reagent	Ref Ph.Eur 1003701	100 ml	611003701	145
Ammonia solution 17%	Ref Ph.Eur 1004701	250 ml	611004701	150
Ammonia solution diluted	Ammonia, dilute R1 Ref Ph.Eur 1004702	1 l	611004702	151
Ammonia solution diluted	Ammonia, dilute R2 Ref Ph.Eur 1004703	1 l	611004703	151
Ammoniacal solution of copper tetrammine	Ref Ph.Eur 1022600	100 ml	611022600	151
Ammonium carbonate solution 158 g/l	Ref Ph.Eur 1005201	1 l	611005201	155
Ammonium molybdate solution	Ammonium molybdate solution R2 Ref Ph.Eur 1005703	1 l	611005703	160
Anisaldehyde solution	Ref Ph.Eur 1007301	100 ml	611007301	167
Anisaldehyde solution	Anisaldehyde solution R1 Ref Ph.Eur 1007302	100 ml	611007302	167
Antimony trichloride	Ref Ph.Eur 1007701	100 ml	611007701	170
Barium chloride solution 61 g/l	Barium chloride solution R1 Ref Ph.Eur 1009301	100 ml	611009303	181
Barium chloride solution 61 g/l	Barium chloride solution R1 Ref Ph.Eur 1009301	250 ml	611009309	181
Barium chloride solution 61 g/l	Barium chloride solution R1 Ref Ph.Eur 1009301	1 l	611009301	181
Barium hydroxide solution 47.3 g/l	Ref Ph.Eur 1009401	250 ml	611009409	182
Barium hydroxide solution 47.3 g/l	Ref Ph.Eur 1009401	1 l	611009401	182
Biuret reagent	Biuret reagent Ref Ph.Eur 1011601	1 l	611011601	193
Bromine solution	Ref Ph.Eur 1012401	100 ml	611012401	198
Bromine water	Ref Ph.Eur 1012402	50 ml	611012409	198
Bromine water	Ref Ph.Eur 1012402	100 ml	611012402	198
Bromocresol green solution	Ref Ph.Eur 1012601 / Colour change : pH 3.6 (yellow) to pH 5.2 (blue)	100 ml	611012601	199
Bromocresol green - Methyl red solution	Ref Ph.Eur 1012602	100 ml	611012602	199
Bromocresol purple solution	Ref Ph.Eur 1012701	100 ml	611012701	200
Bromophenol blue solution	Ref Ph.Eur 1012801/Colour change : pH 2.8 (yellow) à pH 4.4 (bleu-violet)	100 ml	611012801	201
Bromophenol blue solution	Bromophenol blue solution R1 Ref Ph.Eur 1012802	100 ml	611012802	201
Bromophenol blue solution	Bromophenol blue solution R2 Ref Ph.Eur 1012803	100 ml	611012803	201
Bromothymol blue solution	Bromothymol blue solution R1 Ref Ph.Eur 1012901/ Colour change : pH 5.8 (yellow) to pH 7.4 (blue)	100 ml	611012901	203
Bromothymol blue solution	Bromothymol blue solution R3 Ref Ph.Eur 1012903	100 ml	611012903	203
Calcium sulfate hemihydrate solution	Ref Ph.Eur 1015201	100 ml	611015202	232
Calcium sulfate hemihydrate solution	Ref Ph.Eur 1015201	1 l	611015201	232
Chloral hydrate	Ref Ph.Eur 1017901	100 ml	611017901	242
2-Chloroethanol solution	Ref Ph.Eur 1097501	100 ml	611097501	245
Congo red solution	Ref Ph.Eur 1022001	100 ml	611022001	259
Copper (II) sulfate solution 12.5%	Ref Ph.Eur 1022500	100 ml	611022501	266
Crystal violet solution 0.5% in anhydrous acetic acid	Ref Ph.Eur 1022901	100 ml	611022901	268
Cupri-citric solution	Ref Ph.Eur 1023100	1 l	611023100	268
Cupri-tartaric solution	Ref Ph.Eur 1023300	2 x 500 ml	611023300	269
Dichloromethane acidified with 1% hydrochloric acid	Ref Ph.Eur 1055901	100 ml	611055901	286
1,4-Dioxane	Dioxane stock solution 1.0 mg/ml Ref Ph.Eur 1032001	50 ml	611032001	301
1,4-Dioxane	Dioxane solution 0.5 mg/ml Ref Ph.Eur 1032002	100 ml	611032002	301
1,4-Dioxane	Dioxane solution R1 0.1 mg/ml Ref Ph.Eur 1032003	50 ml	611032003	301

Description	Notes	Size	Code	Page
Diphenylamine solution 1% in sulfuric acid	Ref Ph.Eur 1032101	100 ml	611032109	302
Diphenylamine solution 1% in sulfuric acid	Ref Ph.Eur 1032101	1 l	611032101	302
Diphenylamine solution 1% in sulfuric acid	Diphenylamine solution R1 Ref Ph.Eur 1032102	1 l	611032102	302
Eriochrome black T	Ref Ph.Eur 1056801	100 g	611056801	309
Ethylene oxide solution	Ethylene oxide solution R5 Ref Ph.Eur 1036408	1 ml	611036408	328
Ethylene oxide solution	Ethylene oxide stock solution Ref Ph.Eur 1036401	10 ml	611036401	328
Ferroin 0.025 mol/l solution	Ref Ph.Eur 1038100	100 ml	611038100	332
Formaldehyde 35% w/w	Ref Ph.Eur 1039101	100 ml	611039101	337
Fuchsin solution decolorised	Ref Ph.Eur 1039401	100 ml	611039401	343
Fuchsin solution decolorised	Fuchsin solution, decolorised R1 Ref Ph.Eur 1039402	100 ml	611039402	343
Holmium perchlorate in solution	Ref Ph.Eur 1043101	1 l	611043101	368
Hydrochloric acid 25% w/v	Hydrochloric acid R1 Ref Ph.Eur 1043501	1 l	611043501	374
Hydrochloric acid, dilute	Ref Ph.Eur 1043503	1 l	611043503	384
Hydrochloric acid, dilute	Hydrochloric acid, dilute R1 Ref Ph.Eur 1043504	1 l	611043504	384
Hydrochloric acid, brominated	Ref Ph.Eur 1043507	1 l	611043507	384
Hydroxylamine solution, alcoholic	Ref Ph.Eur 1044301	100 ml	611044301	389
Indigo carmine solution	Ref Ph.Eur 1045601	1 l	611045601	394
Iodine bromide solution	Ref Ph.Eur 1045901	1 l	611045901	399
Iodoplatinate reagent	Ref Ph.Eur 1046300	200 ml	611046309	399
Iodoplatinate reagent	Ref Ph.Eur 1046300	1 l	611046300	399
Iron (III) ammonium sulfate solution 100 g/l	Ferric ammonium sulfate solution R2 Ref Ph.Eur 1037702	100 ml	611037703	404
Iron (III) ammonium sulfate solution 100 g/l	Ferric ammonium sulfate solution R2 Ref Ph.Eur 1037702	1 l	611037702	404
Lanthanum nitrate solution 50 g/l	Ref Ph.Eur 1048001	1 l	611048001	424
Lead (II) acetate basic solution	Ref Ph.Eur 1048400	100 ml	611048400	426
Lead (II) acetate solution 95 g/l	Ref Ph.Eur 1048103	100 ml	611048103	426
Lead (II) acetate cotton	Ref Ph.Eur 1048101	10 g	611048101	427
Lead (II) acetate paper	Ref Ph.Eur 1048102	50 pc	611048102	427
Lead (II) nitrate solution 33 g/l	Ref Ph.Eur 1048301	1 l	611048301	428
Litmus paper	Ref Ph.Eur 1049301	50	611049301	434
Malachite green solution 0.5% in acetic acid anhydrous	Ref Ph.Eur 1050501	1 l	611050501	444
Mercuric bromide paper	Ref Ph.Eur 1052101	50 pc	611052101	451
Mercury chloride solution 54 g/l	Ref Ph.Eur 1052201	100 ml	611052201	453
Mercury sulfate solution	Ref Ph.Eur 1052600	100 ml	611052600	454
Methanol, hydrochloric	Ref Ph.Eur 1053203	100 ml	611053203	459
Methyl Orange solution 0.1%	Solution in ethanol Ref Ph.Eur 1054802	100 ml	611054802	467
Methyl orange mixed solution	Ref Ph.Eur 1054801	100 ml	611054801	467
Methyl red solution	Ref Ph.Eur 1055102	100 ml	611055102	469
Methyl red mixed solution	Ref Ph.Eur 1055101	100 ml	611055101	470
Molybdovanadic reagent	Ref Ph.Eur 1056700	100 ml	611056700	476
alpha-Naphtholbenzein solution 0.2% in acetic acid	Ref Ph.Eur 1057601	100 ml	611057601	482
Ninhydrin solution	Ninhydrin solution R1 Ref Ph.Eur 1058304	100 ml	611058304	489
Ninhydrin solution	Ninhydrin solution R2 Ref Ph.Eur 1058305	100 ml	611058305	489
Ninhydrin and stannous chloride reagent	Ref Ph.Eur 1058301	100 ml	611058301	490
Nitric acid, dilute	Ref Ph.Eur 1058402	100 ml	611058402	496
Nitric acid, dilute	Ref Ph.Eur 1058402	250 ml	611058409	496
Pararosaniline solution, decolorised	Ref Ph.Eur 1062201	100 ml	611062201	511

Description	Notes	Size	Code	Page
Perchloric acid solution	Ref Ph.Eur 1062901	100 ml	611062901	517
Phenol red solution	Ref Ph.Eur 1063601 / Colour change: pH 6.8 (yellow) to pH 8.4 (reddish-violet)	100 ml	611063601	525
Phenol red solution	Phenol red solution R2 Ref Ph.Eur 1063603	500 ml	611063603	525
Phenolphthalein solution 1% in ethanol	Phenolphtalein solution R1 Ref Ph.Eur 1063703	100 ml	611063703	526
Phenolphthalein solution 0.1%	Ref Ph.Eur 1063702	100 ml	611063702	526
Phenylhydrazine hydrochloride solution	Ref Ph.Eur 1064501	100 ml	611064501	528
Phosphomolybdotungstic reagent	Ref Ph.Eur 1065000	100 ml	611065000	530
Phosphotungstic acid solution	Ref Ph.Eur 1065200	100 ml	611065200	532
Picric acid solution	Ref Ph.Eur 1065801	100 ml	611065801	533
Picric acid solution	Picric acid solution R1 Ref Ph.Eur 1065802	100 ml	611065802	533
Potassium chloride 0.1 mol/l (0.1N)	Ref Ph.Eur 1069101	1 l	611069101	542
Potassium chromate 5% solution	Ref Ph.Eur 1069201	1 l	611069201	543
Potassium dichromate solution 0.5%	Potassium dichromate solution R1 Ref Ph.Eur 1069502	100 ml	611069509	546
Potassium dichromate solution 0.5%	Potassium dichromate solution R1 Ref Ph.Eur 1069502	1 l	611069502	546
Potassium dichromate solution 106 g/l	Ref Ph.Eur 1069501	1 l	611069501	546
Potassium ferrocyanide solution 53 g/l	Ref Ph.Eur 1069801	100 ml	611069801	548
Potassium hydrogen phthalate 0.2 mol/l (0.2N)	Ref Ph.Eur 1070001	1 l	611070001	551
Potassium hydroxide solution 3% in ethanol	Ref Ph.Eur 1070303	100 ml	611070303	553
Potassium hydroxide 2 mol/l (2N) in ethanol	Ref Ph.Eur 1070301	100 ml	611070301	554
Potassium hydroxide 0.5 mol/l (0.5N) in ethanol	Ref Ph.Eur 1070302	1 l	611070302	555
Potassium iodide solution	Solution saturated Ref Ph.Eur 1070504	100 ml	611070504	560
Potassium iodide solution	Solution iodinated R1 Ref Ph.Eur 1070505	100 ml	611070505	560
Potassium iodide solution	Potassium iodide solution 166 g/l Ref Ph.Eur 1070502	1 l	611070502	560
Potassium iodobismuthate solution	Ref Ph.Eur 1070600	100 ml	611070600	560
Potassium iodobismuthate solution	Potassium iodobismuthate solution R2 Ref Ph.Eur 1070602	100 ml	611070602	560
Potassium permanganate solution 3%	Ref Ph.Eur 1070902	1 l	611070902	564
Potassium permanganate and phosphoric acid solution	Ref Ph.Eur 1070901	100 ml	611070901	564
Potassium phosphate monobasic 0.2 mol/l (0.2N)	Ref Ph.Eur 1069601	1 l	611069601	566
Potassium pyroantimonate solution	Ref Ph.Eur 1071300	100 ml	611071303	567
Potassium pyroantimonate solution	Ref Ph.Eur 1071300	250 ml	611071309	567
Potassium pyroantimonate solution	Ref Ph.Eur 1071300	1 l	611071302	567
Potassium tetraiodomercurate solution, alkaline	Ref Ph.Eur 1071600	200 ml	611071600	570
Potassium thiocyanate solution	A 97 g/l solution Ref Ph.Eur 1071801	1 l	611071801	571
Salicylaldehyde azine	Ref Ph.Eur 1075500	100 ml	611075500	592
Silver manganese paper	Ref Ph.Eur 1078200	50	611078200	604
Silver nitrate solution	Silver nitrate R2 Ref Ph.Eur 1078302	100 ml	611078306	607
Silver nitrate solution	Silver nitrate R1 Ref Ph.Eur 1078301	100 ml	611078307	607
Silver nitrate solution	Silver nitrate R1 Ref Ph.Eur 1078301	1 l	611078301	607
Silver nitrate solution	Silver nitrate R2 Ref Ph.Eur 1078302	1 l	611078302	607
Sodium carbonate solution	A 106 g/l solution ref Ph.Eur 1079301	1 l	611079301	618
Sodium hydroxide solution 20% w/v	Ref Ph.Eur 1081401	1 l	611081401	629
Sodium hydroxide solution	Ref Ph.Eur 1081402	1 l	611081402	631
Sodium hydroxide solution	Sodium hydroxide solution, strong Ref Ph.Eur 1081404	1 l	611081404	631
Sodium hydroxide solution, methanolic	Sodium hydroxide solution, methanolic R1 Ref Ph.Eur 1081405	100 ml	611081405	631

Description	Notes	Size	Code	Page
Sodium hypochlorite solution in water	Sodium hypochlorite solution, strong Ref Ph.Eur 1081600	250 ml	611081609	638
Sodium hypochlorite solution in water	Sodium hypochlorite solution, strong Ref Ph.Eur 1081600	1 l	611081600	638
Sodium sulfide nonahydrate solution	Ref Ph.Eur 1083901	100 ml	611083901	653
Sodium sulfide nonahydrate solution	Sodium sulfide solution R1 Ref Ph.Eur 1083902	100 ml	611083902	653
Starch soluble solution	Ref Ph.Eur 1085103	100 ml	611085103	667
Starch soluble solution	Ref Ph.Eur 1085103	1 l	611085104	667
Sulfomolybdic reagent	Sulfomolybdic reagent R3 Ref Ph.Eur 1086500	100 ml	611086500	674
Sulfuric acid, dilute	A 98 g/l solution Ref Ph.Eur 1086804	1 l	611086804	686
Thioacetamide solution 40 g/l	Ref Ph.Eur 1089602	100 ml	611089603	697
Thioacetamide solution 40 g/l	Ref Ph.Eur 1089602	1 l	611089602	697
Thymol blue solution	Ref Ph.Eur 1090601	100 ml	611090601	700
Thymolphtalein solution 0.1% in ethanol	Ref Ph.Eur 1090701	100 ml	611090701	701
Tin (II) chloride solution	Ref Ph.Eur 1085001	100 ml	611085001	703
Titanium trichloride-sulfuric acid reagent	Ref Ph.Eur 1091202	100 ml	611091202	707
o-Tolidine solution	Ref Ph.Eur 1123001	500 ml	611123001	707
Tris(hydroxymethyl)aminomethane solution	Ref Ph.Eur 1094201	100 ml	611094201	720
Vanillin solution, phosphoric	Ref Ph.Eur 1095302	100 ml	611095302	726
Water	Water ammonium-free Ref Ph.Eur 1095501	1 l	611095501	729
Water	Water nitrate-free Ref Ph.Eur 1095506	1 l	611095506	729
Zinc, activated	Ref Ph.Eur 1096501	100 g	611096501	739
Zinc acetate solution	Ref Ph.Eur 1102301	1 l	611102301	739
Zinc chloride solution, iodinated	Ref Ph.Eur 1096602	500 ml	611096603	741
Zinc chloride solution, iodinated	Ref Ph.Eur 1096602	1 l	611096602	741
Zinc chloride-formic acid solution	Ref Ph.Eur 1096601	1 l	611096601	741

Ph. Eur. Reagents Chapter 4.1.2: Standard solutions for limit tests

To be diluted immediately prior to use, as set out in the pharmacopoeia

Description	Notes	Size	Code	Page
Aluminum standard solution	A 200 ppm solution Ref Ph.Eur 5000200	100 ml	615000200	138
Aluminum standard solution	A 10 ppm solution : to dilute according to Ref Ph.Eur 5000201	100 ml	615000201	138
Aluminum standard solution	A 2 ppm solution : to dilute according to Ref Ph.Eur 5000202	100 ml	615000202	138
Aluminum standard solution	A 100 ppm solution : to dilute according to Ref Ph.Eur 5000203	100 ml	615000203	138
Ammonium standard solution	A 2.5 ppm solution : to dilute according to Ref Ph.Eur 5000301	100 ml	615000301	152
Ammonium standard solution	A 1 ppm solution : to dilute according to Ref Ph.Eur 5000302	100 ml	615000302	152
Ammonium standard solution	A 100 ppm solution : to dilute according to Ref Ph.Eur 5000300	100 ml	615000309	152
Antimony standard solution	A 100 ppm solution Ref Ph.Eur 5000400	100 ml	615000400	168
Arsenic standard solution	A 1 ppm solution : to dilute according to Ref Ph.Eur 5000501	100 ml	615000501	171
Arsenic standard solution	A 0.1 ppm solution : to dilute according to Ref Ph.Eur 5000502	100 ml	615000502	171
Arsenic standard solution	A 10 ppm solution : to dilute according to Ref Ph.Eur 5000500	100 ml	615000509	171
Barium standard solution	A 0.1 % solution Ref Ph.Eur 5000601	100 ml	615000601	178
Barium standard solution	A 50 ppm solution : to dilute according to Ref Ph.Eur 5000600	100 ml	615000609	178

Description	Notes	Size	Code	Page
Bismuth standard solution	A 100 ppm solution : to dilute according to Ref Ph.Eur 5005300	100 ml	615005300	191
Cadmium standard solution	A 0.1 % solution Ref Ph.Eur 5000700	100 ml	615000700	219
Cadmium standard solution	A 10 ppm solution : to dilute according to Ref Ph.Eur 5000701	100 ml	615000709	219
Calcium standard solution	A 100 ppm solution : to dilute according to Ref Ph.Eur 5000801	100 ml	615000801	221
Calcium standard solution	A 100 ppm alcoholic solution : to dilute according to Ph.Eur 5000802	100 ml	615000802	221
Calcium standard solution	A 10 ppm solution : to dilute according to Ref Ph.Eur 5000803	100 ml	615000803	221
Calcium standard solution	A 100 ppm solution R1: to dilute according to Ref Ph.Eur 5000804	100 ml	615000804	221
Calcium standard solution	A 400 ppm solution : to dilute according to Ref Ph.Eur 5000800	100 ml	615000809	221
Chloride standard solution	A 5 ppm solution : to dilute according to Ref Ph.Eur 5000901	100 ml	615000901	243
Chloride standard solution	A 8 ppm solution : to dilute according to Ref Ph.Eur 5000900	100 ml	615000909	243
Chloride standard solution	A 50 ppm solution : to dilute according to Ref Ph.Eur 5004100	100 ml	615004100	243
Chromium standard solution	A 0.1 % solution Ref Ph.Eur 5001002	100 ml	615001002	251
Chromium standard solution	A 100 ppm solution Ref Ph.Eur 5001000	1 l	615001000	251
Cobalt standard solution	A 100 ppm solution Ref Ph.Eur 5004300	1 l	615004300	256
Copper standard solution	A 0.1 % solution Ref Ph.Eur 5001100	100 ml	615001100	260
Ferricyanide standard solution	A 50 ppm solution : to dilute according to Ph.Eur 5001300	100 ml	615001300	331
Ferrocyanide standard solution	A 100 ppm solution : to dilute according to Ph.Eur 5001200	100 ml	615001209	331
Fluoride standard solution	A 1 ppm solution : to dilute according to Ref Ph.Eur 5001401	100 ml	615001401	336
Fluoride standard solution	A 10 ppm solution : to dilute according to Ref Ph.Eur 5001400	100 ml	615001409	336
Germanium standard solution	A 100 ppm solution Ref Ph.Eur 5004400	1 l	615004400	347
Glyoxal standard solution	A 20 ppm solution : to dilute according to Ph.Eur 5003700	100 ml	615003700	351
Iodine 10 ppm	Concentrated solution : to dilute according to Ref Ph.Eur 5003800	100 ml	615003809	398
Iron standard solution	A 10 ppm solution : to dilute according to Ref Ph.Eur 5001601	100 ml	615001601	400
Iron standard solution	A 8 ppm solution : to dilute according to Ref Ph.Eur 5001602	100 ml	615001602	400
Iron standard solution	A 2 ppm solution : to dilute according to Ref Ph.Eur 5001603	100 ml	615001603	400
Iron standard solution	A 0.1 % solution Ref Ph.Eur 5001605	100 ml	615001605	400
Iron standard solution	A 250 ppm solution : to dilute according to Ref Ph.Eur 5001606	100 ml	615001606	400
Iron standard solution	A 20 ppm solution : to dilute according to Ref Ph.Eur 5001600	100 ml	615001609	400
Lead standard solution	A 0.1 % solution Ref Ph.Eur 5001700	100 ml	615001700	425
Lead standard solution	A 10 ppm solution : to dilute according to Ref Ph.Eur 5001702	100 ml	615001702	425
Lead standard solution	A 2 ppm solution : to dilute according to Ref Ph.Eur 5001703	100 ml	615001703	425
Lead standard solution	A 1 ppm solution : to dilute according to Ref Ph.Eur 5001704	100 ml	615001704	425
Lead standard solution	A 0.1 ppm solution : to dilute according to Ref Ph.Eur 5001705	100 ml	615001705	425

Description	Notes	Size	Code	Page
Lead standard solution	A 10 ppm solution R1 : to dilute according to Ref Ph.Eur 5001706	100 ml	615001706	425
Lead standard solution	A 100 ppm solution : to dilute according to Ref Ph.Eur 5001701	100 ml	615001709	425
Lead standard solution	A 0.1 % solution Ref Ph.Eur 5001700	500 ml	615001701	425
Magnesium standard solution	A 10 ppm solution : to dilute according to Ref Ph.Eur 5001801	100 ml	615001801	437
Magnesium standard solution	A 10 ppm solution : to dilute according to Ref Ph.Eur 5001802	100 ml	615001802	437
Magnesium standard solution	A 0.1 % solution Ref Ph.Eur 5001803	100 ml	615001803	437
Magnesium standard solution	A 100 ppm solution : to dilute according to Ref Ph.Eur 5001800	100 ml	615001809	437
Manganese standard solution	A 100 ppm solution Ref Ph.Eur 5004500	1 l	615004500	446
Manganese standard solution	A 1.000 ppm solution Ref Ph.Eur 5005800	1 l	615005800	446
Mercury standard solution	A 10 ppm solution : to dilute according to Ref Ph.Eur 5001901	100 ml	615001901	451
Mercury standard solution	A 1000 ppm solution Ref Ph.Eur 5001900	1 l	615001900	451
Nickel standard solution	A 0.1 ppm solution : to dilute according to Ref Ph.Eur 5002001	100 ml	615002001	485
Nickel standard solution	A 0.2 ppm solution : to dilute according to Ref Ph.Eur 5002002	100 ml	615002002	485
Nickel standard solution	A 10 ppm solution : to dilute according to Ref Ph.Eur 5002000	100 ml	615002009	485
Nitrate standard solution	A 10 ppm solution : to dilute according to Ref Ph.Eur 5002101	100 ml	615002101	490
Nitrate standard solution	A 2 ppm solution : to dilute according to Ref Ph.Eur 5002102	100 ml	615002102	490
Nitrate standard solution	A 100 ppm solution : to dilute according to Ref Ph.Eur 5002100	100 ml	615002109	490
Palladium standard solution	A 500 ppm solution Ref Ph.Eur 5003600	100 ml	615003600	508
Phosphate standard solution	A 5 ppm solution : to dilute according to Ref Ph.Eur 5002200	100 ml	615002200	528
Phosphate standard solution	A 200 ppm solution Ref Ph.Eur 5004200	1 l	615004200	528
Potassium standard solution	A 20 ppm solution : to dilute according to Ref Ph.Eur 5002401	100 ml	615002401	535
Potassium standard solution	A 0.1 % solution Ref Ph.Eur 5002402	100 ml	615002402	535
Potassium standard solution	A 100 ppm solution : to dilute according to Ref Ph.Eur 5002400	100 ml	615002409	535
Potassium standard solution	A 600 ppm solution : to dilute according to Ref Ph.Eur 5005100	100 ml	615005100	535
Selenium standard solution	A 1 ppm solution Ref Ph.Eur 5002501	100 ml	615002501	596
Selenium standard solution	A 100 ppm solution Ref Ph.Eur 5002500	1 l	615002500	596
Silver standard solution	A 5 ppm solution : to dilute according to Ref Ph.Eur 5002600	100 ml	615002609	601
Sodium standard solution	A 50 ppm solution : to dilute according to Ref Ph.Eur 5002701	100 ml	615002701	609
Sodium standard solution	A 200 ppm solution : to dilute according to Ref Ph.Eur 5002700	100 ml	615002709	609
Sodium standard solution	A 1000 ppm solution Ref Ph.Eur 5005700	1 l	615005700	609
Sulfate standard solution	A 10 ppm solution R1 : to dilute according to Ref Ph.Eur 5002801	100 ml	615002801	673
Sulfate standard solution	A 100 ppm solution : to dilute according to Ref Ph.Eur 5002802	100 ml	615002802	673
Sulfate standard solution	A 10 ppm solution : to dilute according to Ref Ph.Eur 5002800	100 ml	615002809	673
Sulfite standard solution	A 1,5 ppm solution Ref Ph.Eur 5002900	100 ml	615002900	674
Thallium standard solution	A 10 ppm solution Ref Ph.Eur 5003000	100 ml	615003000	696

Description	Notes	Size	Code	Page
Tin standard solution	A 0.1 ppm solution : to dilute according to Ref Ph.Eur 5003101	100 ml	615003101	702
Tin standard solution	A 5 ppm solution : to dilute according to Ref Ph.Eur 5003100	100 ml	615003109	702
Titanium standard solution	A 100 ppm solution Ref Ph.Eur 5003200	1 l	615003200	705
Vanadium standard solution	A 1 g/l solution Ref Ph.Eur 5003300	100 ml	615003300	725
Zinc standard solution	A 5mg/l solution Ref Ph.Eur 5003400	100 ml	615003400	737
Zinc standard solution	A 10 ppm solution : to dilute according to Ref Ph.Eur 5003402	100 ml	615003402	737
Zinc standard solution	A 5 ppm solution : to dilute according to Ref Ph.Eur 5003403	100 ml	615003403	737
Zinc standard solution	A 100 ppm solution : to dilute according to Ref Ph.Eur 5003401	100 ml	615003409	737
Zirconium standard solution	A 1 g/l solution Ref Ph.Eur 5003500	100 ml	615003500	744

Ph. Eur. Reagents Chapter 4.1.3: Buffers Solutions

Description	Notes	Size	Code	Page
Acetate buffer pH 4.6	Ref Ph.Eur 4001400	1 l	614001400	117
Acetate buffer pH 6.0	Ref Ph.Eur 4002200	1 l	614002200	118
Acetone	Buffered acetone solution Ref Ph.Eur 4000100	1 l	614000100	127
Ammonium chloride buffer solution pH 10.7	Ref Ph.Eur 4013400	1 l	614013400	156
Ammonium chloride buffer solution pH 10.0	Ref Ph.Eur 4007300	100 ml	614007301	156
Ammonium chloride buffer solution pH 10.0	Ref Ph.Eur 4007300	1 l	614007300	156
Ammonium chloride buffer solution pH 9.5	Ref Ph.Eur 4007200	1 l	614007200	156
Buffer pH 2	Ref Ph.Eur 4000200	1 l	614000200	204
Buffer pH 3.5	Ref Ph.Eur 4000600	250 ml	614000601	204
Buffer pH 3.5	Ref Ph.Eur 4000600	1 l	614000600	204
Buffer pH 3.7	Ref Ph.Eur 4000900	1 l	614000900	205
Buffer pH 5.2	Ref Ph.Eur 4001700	1 l	614001700	206
Buffer pH 7	Ref Ph.Eur 4003500	1 l	614003500	207
Buffer pH 7.4	Ref Ph.Eur 4004600	1 l	614004600	208
Buffer pH 9	Ref Ph.Eur 4000700	1 l	614007000	209
Phosphate buffer pH 2.0	Ref Ph.Eur 4007900	1 l	614007900	529
Phosphate buffer pH 3.0	Ref Ph.Eur 4000500	100 ml	614000501	529
Phosphate buffer pH 3.0	Ref Ph.Eur 4000500	1 l	614000500	529
Phosphate buffer pH 5.5	Ref Ph.Eur 4002000	1 l	614002000	529
Phosphate buffer pH 6.8	Ref Ph.Eur 4003400	1 l	614003400	529
Phosphate buffer pH 6.0	Ref Ph.Eur 4002400	1 l	614002400	529
Phosphate buffer pH 7.4	Ref Ph.Eur 4004800	1 l	614004800	530
Phosphate buffer pH 9.0	Ref Ph.Eur 4008300	1 l	614008300	530
Total-ionic-strength-adjustment buffer	Ref Ph.Eur 4007700	1 l	614007700	711
Total-ionic-strength-adjustment buffer	Total ionic strength adjustment buffer R1 Ref Ph.Eur 4008800	1 l	614008800	711
Tris(hydroxymethyl)aminomethane buffer solution pH 8.1	Ref Ph.Eur 4006200	1 l	614006200	720
Tris(hydroxymethyl)aminomethane-EDTA buffer solution pH 8.4	Ref Ph.Eur 4006600	1 l	614006600	720
Tris(hydroxymethyl)aminomethane sodium chloride buffer solution pH 7.4	Ref Ph.Eur 4004900	1 l	614004900	721

Ph. Eur. Reagents Chapter 4.2.1: Primary standards for volumetric solutions

Description	Notes	Size	Code	Page
Benzoic acid	Ref Ph.Eur 2000200	100 g	612000200	187
Potassium bromate	Ref Ph.Eur 2000300	50 g	612000300	538
Potassium hydrogen phthalate	Ref Ph.Eur 2000400	50 g	612000400	550
Sodium carbonate monohydrate	Ref Ph.Eur 2000500	50 g	612000500	617
Sodium chloride	Ref Ph.Eur 2000600	250 g	612000600	618
Sulfanilic acid	Ref Ph.Eur 2000700	100 g	612000700	673
Zinc standard solution	Ref Ph.Eur 2000800	100 g	612000800	737

Ph. Eur. Reagents Chapter 4.2.2: Volumetric solutions

Description	Notes	Size	Code	Page
Ammonium thiocyanate 0.1 mol/l (0.1N)	Ref Ph.Eur 3000500	500 ml	613000501	165
Ammonium thiocyanate 0.1 mol/l (0.1N)	Ref Ph.Eur 3000500	1 l	613000500	165
Barium chloride 0.1 mol/l (0.2N)	Ref Ph.Eur 3000600	1 l	613000600	181
Barium perchlorate 0.05 mol/l	Ref Ph.Eur 3000700	1 l	613000700	183
Barium perchlorate 0.025 mol/l	Ref Ph.Eur 3009600	500 ml	613009601	183
Barium perchlorate 0.025 mol/l	Ref Ph.Eur 3009600	1 l	613009600	183
Bis(ethylenediamine)copper(II) hydroxide solution 1 mol/l	Ref Ph.Eur 3008700	1 l	613008700	190
Bromide - bromate 0.0167 mol/l	Ref Ph.Eur 3001000	1 l	613001000	198
Cerium (IV) ammonium nitrate 0.1 mol/l	Ref Ph.Eur 3000100	1 l	613000100	237
Cerium (IV) ammonium nitrate 0.01 mol/l	Ref Ph.Eur 3000200	1 l	613000200	237
Cerium (IV) ammonium sulfate 0.1 mol/l	Ref Ph.Eur 3000300	1 l	613000300	238
Cerium (IV) ammonium sulfate 0.01 mol/l	Ref Ph.Eur 3000400	1 l	613000400	238
Cerium (IV) sulfate 0.1 mol/l	Ref Ph.Eur 3000300	250 ml	613000301	239
Cerium (IV) sulfate 0.1 mol/l	Ref Ph.Eur 3001100	500 ml	613001101	239
Cerium (IV) sulfate 0.1 mol/l	Ref Ph.Eur 3001100	1 l	613001100	239
Ethylenediaminetetraacetic acid disodium salt 0.1 mol/l (0.2N)	Ref Ph.Eur 3005900	500 ml	613005901	325
Ethylenediaminetetraacetic acid disodium salt 0.1 mol/l (0.2N)	Ref Ph.Eur 3005900	1 l	613005900	325
Hyamine 1622 solution 0.004M	Ref Ph.Eur 3000900	100 ml	613000901	369
Hyamine 1622 solution 0.004M	Ref Ph.Eur 3000900	1 l	613000900	369
Hydrochloric acid 6 mol/l (6N)	Ref Ph.Eur 3001500	1 l	613001500	376
Hydrochloric acid 2 mol/l (2N)	Ref Ph.Eur 3001700	1 l	613001700	378
Hydrochloric acid 1 mol/l (1N)	Ref Ph.Eur 3001800	500 ml	613001801	378
Hydrochloric acid 1 mol/l (1N)	Ref Ph.Eur 3001800	1 l	613001800	378
Hydrochloric acid 0.1 mol/l (0.1N)	Ref Ph.Eur 3002100	500 ml	613002101	381
Hydrochloric acid 0.1 mol/l (0.1N)	Ref Ph.Eur 3002100	1 l	613002100	381
Hydrochloric acid 0.1 mol/l (0.1N) in ethanol	Ref Ph.Eur 3008800	1 l	613008800	381
Iodine 0.5 mol/l (1N)	Ref Ph.Eur 3009400	1 l	613009400	397
Iodine 0.05 mol/l (0.1N)	Ref Ph.Eur 3002700	1 l	613002700	398
Iodine 0.01 mol/l (0.02N)	Ref Ph.Eur 3002900	1 l	613002900	398
Iron (III) ammonium sulfate 0.1 mol/l	Ref Ph.Eur 3001300	1 l	613001300	403
Iron (II) sulfate 0.1mol/l	Ref Ph.Eur 3001400	1 l	613001400	407
Lanthanum nitrate 0.1 mol/l	Ref Ph.Eur 3010100	1 l	613010100	424
Lead (II) nitrate 0.05 mol/l	Ref Ph.Eur 3009700	100 ml	613009700	428
Lead (II) nitrate 0.1 mol/l	Ref Ph.Eur 3003100	500 ml	613003101	428

Description	Notes	Size	Code	Page
Lead (II) nitrate 0.1 mol/l	Ref Ph.Eur 3003100	1 l	613003100	428
Perchloric acid 0.1 mol/l (0.1N)	Ref Ph.Eur 3003900	1 l	613003900	516
Perchloric acid 0.05 mol/l (0.05N)	Ref Ph.Eur 3004000	1 l	613004000	517
Potassium bromate 0.033 mol/l (0.198N)	Ref Ph.Eur 3004200	1 l	613004200	538
Potassium bromate 0.02 mol/l (0.12N)	Ref Ph.Eur 3004300	1 l	613004300	538
Potassium dichromate 0.0167 mol/l (0.1 N)	Ref Ph.Eur 3004600	1 l	613004600	545
Potassium hydroxide 1 mol/l (1N)	Ref Ph.Eur 3009100	1 l	613009100	554
Potassium hydroxide 0.5 mol/l (0.5N) in ethanol	Ref Ph.Eur 3004900	1 l	613004900	555
Potassium hydroxide 0.1 mol/l (0.1N)	Ref Ph.Eur 3004800	1 l	613004800	556
Potassium hydroxide 0.1 mol/l (0.1N) in ethanol	Ref Ph.Eur 3005100	1 l	613005100	557
Potassium iodate 0.05 mol/l	Ref Ph.Eur 3005200	1 l	613005200	558
Potassium permanganate 0.02 mol/l (0.1N)	Ref Ph.Eur 3005300	100 ml	613005301	563
Potassium permanganate 0.02 mol/l (0.1N)	Ref Ph.Eur 3005300	250 ml	613005309	563
Potassium permanganate 0.02 mol/l (0.1N)	Ref Ph.Eur 3005300	1 l	613005300	563
Silver nitrate 0.1 mol/l (0.1N)	Ref Ph.Eur 3005600	1 l	613005600	605
Sodium arsenite 0.1 mol/l (0.2N)	Ref Ph.Eur 3005800	1 l	613005800	612
Sodium hydroxide 1 mol/l (1N)	Ref Ph.Eur 3006300	500 ml	613006301	633
Sodium hydroxide 1 mol/l (1N)	Ref Ph.Eur 3006300	1 l	613006300	633
Sodium hydroxide 0.1 mol/l (N/10)	Ref Ph.Eur 3006600	500 ml	613006601	636
Sodium hydroxide 0.1 mol/l (N/10)	Ref Ph.Eur 3006600	1 l	613006600	636
Sodium hydroxide 0.1 mol/l (0.1N) in ethanol	Ref Ph.Eur 3007000	100 ml	613007001	637
Sodium hydroxide 0.1 mol/l (0.1N) in ethanol	Ref Ph.Eur 3007000	1 l	613007000	637
Sodium methoxide 0.1 mol/l	Ref Ph.Eur 3007100	100 ml	613007101	641
Sodium methoxide 0.1 mol/l	Ref Ph.Eur 3007100	1 l	613007100	641
Sodium nitrite 0.1 mol/l (0.1N)	Ref Ph.Eur 3007200	1 l	613007200	643
Sodium thiosulfate 0.1 mol/l (0.1N)	Ref Ph.Eur 3007300	500 ml	613007301	657
Sodium thiosulfate 0.1 mol/l (0.1N)	Ref Ph.Eur 3007300	1 l	613007300	657
Sulfuric acid 0.5 mol/l (1N)	Ref Ph.Eur 3007800	1 l	613007800	681
Sulfuric acid 0.05 mol/l (0.1N)	Ref Ph.Eur 3008000	500 ml	613008001	683
Sulfuric acid 0.05 mol/l (0.1N)	Ref Ph.Eur 3008000	1 l	613008000	683
Tetrabutylammonium hydroxide solution 0.1 mol/l (0.1N)	Ref Ph.Eur 3008300	1 l	613008300	691
Tetrabutylammonium hydroxide 0.1 mol/l (0.1N) in 2-propanol	Ref Ph.Eur 3008400	1 l	613008400	691
Zinc sulfate 0.1 mol/l (0.2N)	Ref Ph.Eur 3008600	500 ml	613008601	743
Zinc sulfate 0.1 mol/l (0.2N)	Ref Ph.Eur 3008600	1 l	613008600	743

Standards for physical and chemicals characteristics

In order to help you to save time, CARLO ERBA Reagents enlarges its range of standards for quality control laboratories: melting point standards, colour standard, osmolality standards, density standards, brix standards, refractive index standards. Traceability, reliability are the key word of these products. You will find the most common used items but others are available. Don't hesitate to contact us if you don't find exactly what you need.

Description	Notes	Size	Code	Page
ASTM colour standards	Sample A1	100 ml	540601	173
ASTM colour standards	Sample A3	100 ml	540602	173
ASTM colour standards	Sample A5	100 ml	540603	173
ASTM colour standards	Sample A5	100 ml	540604	173
Brix Standards	Sucrose Stabilised 0%, Nominal Refractive Index @ 20°C : 1.332986	15 ml	540201	197
Brix Standards	Sucrose Stabilised 5%, Nominal Refractive Index @ 20°C : 1.340264	15 ml	540202	197
Brix Standards	Sucrose Stabilised 7%, Nominal Refractive Index @ 20°C : 1.343253	15 ml	540203	197

Description	Notes	Size	Code	Page
Brix Standards	Sucrose Stabilised 10%, Nominal Refractive Index @ 20°C : 1.347824	15 ml	540204	197
Brix Standards	Sucrose Stabilised 11.5%, Nominal Refractive Index @ 20°C : 1.350149	15 ml	540205	197
Brix Standards	Sucrose Stabilised 12%, Nominal Refractive Index @ 20°C : 1.350930	15 ml	540206	197
Brix Standards	Sucrose Stabilised 15%, Nominal Refractive Index @ 20°C : 1.355679	15 ml	540207	197
Brix Standards	Sucrose Stabilised 20%, Nominal Refractive Index @ 20°C : 1.363842	15 ml	540208	197
Brix Standards	Sucrose Stabilised 25%, Nominal Refractive Index @ 20°C : 1.372328	15 ml	540209	197
Brix Standards	Sucrose Stabilised 30%, Nominal Refractive Index @ 20°C : 1.381149	15 ml	540210	197
Brix Standards	Sucrose Stabilised 35%, Nominal Refractive Index @ 20°C : 1.390322	15 ml	540220	197
Brix Standards	Sucrose Stabilised 40%, Nominal Refractive Index @ 20°C : 1.39986	15 ml	540221	197
Brix Standards	Sucrose Stabilised 45%, Nominal Refractive Index @ 20°C : 1.409777	15 ml	540222	197
Brix Standards	Sucrose Stabilised 50%, Nominal Refractive Index @ 20°C : 1.420087	15 ml	540223	197
Brix Standards	Sucrose Stabilised 60%, Nominal Refractive Index @ 20°C : 1.441928	15 ml	540224	197
Brix Standards	Sucrose Stabilised 67.5%, Nominal Refractive Index @ 20°C : 1.459290	15 ml	540225	197
Density Standard	0.6960g/ml at 15°C	100 ml	540401	274
Density Standard	0.8715g/ml at 15°C	100 ml	540402	274
Density Standard	1.0040g/ml at 15°C	100 ml	540403	274
Density Standard	1.2498g/ml at 15°C	100 ml	540404	274
Density Standard	0.6919g/ml at 20°C	100 ml	540405	274
Density Standard	0.7033g/ml at 20°C	100 ml	540406	274
Density Standard	0.7488g/ml at 20°C	100 ml	540407	274
Density Standard	0.8668g/ml at 20°C	100 ml	540408	274
Density Standard	1.0005g/ml at 20°C	100 ml	540409	274
Density Standard	1.0301g/ml at 20°C	100 ml	540410	274
Density Standard	1.0792g/ml at 20°C	100 ml	540411	274
Density Standard	1.1651g/ml at 20°C	100 ml	540412	274
Density Standard	1.2486g/ml at 20°C	100 ml	540413	274
Density Standard	1.3304g/ml at 20°C	100 ml	540414	274
Density Standard	1.5799g/ml at 20°C	100 ml	540415	274
Density Standard	1.7470g/ml at 20°C	100 ml	540416	274
Density Standard	1.9141g/ml at 20°C	100 ml	540417	274
Density Standard	0.8207g/ml at 40°C	100 ml	540418	274
Density Standard	0.9323g/ml at 40°C	100 ml	540420	274
Density Standard	1.2408g/ml at 40°C	100 ml	540421	274
Density Standard	0.9990g/ml at 60°C	100 ml	540422	274
Density Standard	0.7524g/ml at 15°C	100 ml	540451	275
Density Standard	0.7721g/ml at 15°C	100 ml	540452	275
Density Standard	0.7933g/ml at 15°C	100 ml	540453	275
Density Standard	0.8168g/ml at 15°C	100 ml	540454	275
Density Standard	0.8428g/ml at 15°C	100 ml	540455	275
Density Standard	0.8715g/ml at 15°C	100 ml	540456	275
Density Standard	0.6919g/ml at 20°C	100 ml	540457	275
Density Standard	0.7033g/ml at 20°C	100 ml	540458	275

Description	Notes	Size	Code	Page
Density Standard	0.7488g/ml at 20°C	100 ml	540459	275
Density Standard	0.7893g/ml at 20°C	100 ml	540460	275
Density Standard	0.8126g/ml at 20°C	100 ml	540461	275
Density Standard	0.8384g/ml at 20°C	100 ml	540462	275
Density Standard	0.8668g/ml at 20°C	100 ml	540463	275
Density Standard	0.9098g/ml at 20°C	100 ml	540464	275
Density Standard	0.9476g/ml at 20°C	100 ml	540465	275
Density Standard	0.9969g/ml at 25°C	100 ml	540470	275
Density Standard	0.9245g/ml at 50°C	100 ml	540471	275
Density Standard	0.9695g/ml at 60°C	100 ml	540472	275
Density Standard	0.9815g/ml at 80°C	100 ml	540473	275
Density Standard	1.0005g/ml at 20°C	100 ml	540566	275
Density Standard	1.0301g/ml at 20°C	100 ml	540567	275
Density Standard	0.8622g/ml at 25°C	100 ml	540568	275
Density Standard	0.9438g/ml at 25°C	100 ml	540569	275
Gardner Colour Standards	Colour 2	100 ml	540701	346
Gardner Colour Standards	Colour 4	100 ml	540702	346
Gardner Colour Standards	Colour 6	100 ml	540703	346
Gardner Colour Standards	Colour 8	100 ml	540704	346
Gardner Colour Standards	Colour 10	100 ml	540705	346
Gardner Colour Standards	Colour 12	100 ml	540706	346
Gardner Colour Standards	Colour 14	100 ml	540707	346
Gardner Colour Standards	Colour 16	100 ml	540708	346
Melting point standards	Benzophenone 47 to 49°C	1 g	540001	472
Melting point standards	p-Nitrotoluene 52 to 54°C	1 g	540002	472
Melting point standards	Vanillin 81 to 83°C	1 g	540003	472
Melting point standards	Benzoic Acid 121 to 123°C	1 g	540004	472
Melting point standards	Phenacetin 133 to 135°C	1 g	540005	472
Melting point standards	Salicylic Acid 158 to 160°C	1 g	540006	472
Melting point standards	Sulfanilamide 164 to 166°C	1 g	540007	472
Melting point standards	Caffeine 235 to 238°C	1 g	540008	472
Melting point standards	Carbazole 243 to 247°C	1 g	540009	472
Melting point standards	Anthraquinone 283 to 286°C	1 g	540010	472
Melting point standards	Acetanilide 113 to 116°C	1 g	540014	472
Melting point standards	Set Sulphanilamide Caffeine Vanillin	3 x 1g	540011	472
Melting point standards	Set Benzophenone (4749°C) Benzoic Acid (121-123°C) Anthraquinone (283-286°C)	3 x 1g	540012	472
Melting point standards	Set Vanillin (81-83°C) Phenacetin (134-136°C) Caffeine (235-237°C)	3 x 1g	540013	472
Osmolality Standards	100mOsm/Kg H2O	12 x 5 ml	540301	505
Osmolality Standards	1500mOsm/Kg H2O	12 x 5 ml	540302	505
Osmolality Standards	200mOsm/Kg H2O	12 x 5 ml	540303	505
Osmolality Standards	2000mOsm/Kg H2O	12 x 5 ml	540304	505
Osmolality Standards	290mOsm/Kg H2O	12 x 5 ml	540305	505
Osmolality Standards	300mOsm/Kg H2O	12 x 5 ml	540306	505
Osmolality Standards	400mOsm/Kg H2O	12 x 5 ml	540307	505
Osmolality Standards	500mOsm/Kg H2O	12 x 5 ml	540308	505
Osmolality Standards	850mOsm/Kg H2O	12 x 5 ml	540309	505
Osmolality Standards	900mOsm/Kg H2O	12 x 5 ml	540310	505
Osmolality Standards Protein Based	240mOsm/Kg H2O	12 x 5 ml	540351	505
Osmolality Standards Protein Based	280mOsm/Kg H2O	12 x 5 ml	540352	505

Description	Notes	Size	Code	Page
Osmolality Standards Protein Based	320mOsm/Kg H2O	12 x 5 ml	540353	505
Osmolality Standards Urine Based	300mOsm/Kg H2O	12 x 5 ml	540354	506
Osmolality Standards Urine Based	800mOsm/Kg H2O	12 x 5 ml	540355	506
Refractive Index standards	1.34325 at 20°C	15 ml	540101	587
Refractive Index standards	1.34782 at 20°C	15 ml	540102	587
Refractive Index standards	1.35171 at 20°C	15 ml	540103	587
Refractive Index standards	1.37233 at 20°C	15 ml	540104	587
Refractive Index standards	1.38115 at 20°C	15 ml	540105	587
Refractive Index standards	1.40978 at 20°C	15 ml	540106	587
Refractive Index standards	1.42009 at 20°C	15 ml	540107	587
Refractive Index standards	1.44193 at 20°C	15 ml	540108	587
Saybolt Colour Standards	-15	100 ml	540709	594
Saybolt Colour Standards	+0	100 ml	540710	594
Saybolt Colour Standards	+12	100 ml	540711	594
Saybolt Colour Standards	+15	100 ml	540712	594
Saybolt Colour Standards	+19	100 ml	540713	594
Saybolt Colour Standards	+25	100 ml	540714	594
Saybolt Colour Standards	+30	100 ml	540715	594
Viscosity standards	6.7cSt@20°C, 5.8cSt@25°C, 4.2cSt@37.78°C, 4cSt@40°C, 3.2cSt@50°C	500 ml	540801	727
Viscosity standards	14cSt@20°C, 12cSt@25°C, 8cSt@37.78°C, 7.5cSt@40°C, 5.8cSt@50°C	500 ml	540802	727
Viscosity standards	20cSt@20°C, 16cSt@25°C, 11cSt@37.78°C, 10cSt@40°C, 7.5cSt@50°C	500 ml	540803	727
Viscosity standards	30cSt@20°C, 24cSt@25°C, 15cSt@37.78°C, 14cSt@40°C, 10cSt@50°C	500 ml	540804	727
Viscosity standards	88cSt@20°C, 66cSt@25°C, 35cSt@37.78°C, 32cSt@40°C, 21cSt@50°C	500 ml	540805	727
Viscosity standards	160cSt@20°C, 120cSt@25°C, 60cSt@37.78°C, 54cSt@40°C, 35cSt@50°C	500 ml	540806	727
Viscosity standards	790cSt@20°C, 580cSt@25°C, 280cSt@37.78°C, 250cSt@40°C, 160cSt@50°C	500 ml	540807	727
Viscosity standards	3300cSt@20°C, 2300cSt@25°C, 1100cSt@37.78°C, 940cSt@40°C, 560cSt@50°C	500 ml	540808	727
Viscosity standards	19000cSt@20°C, 12000cSt@25°C, 4000cSt@37.78°C, 3400cSt@40°C, 1700cSt@50°C	500 ml	540809	727
Viscosity standards	28000cSt@20°C, 17000cSt@25°C, 6000cSt@37.78°C, 5100cSt@40°C, 2500cSt@50°C	500 ml	540810	727
Viscosity standards	41000cSt@20°C, 25000cSt@25°C, 8000cSt@37.78°C, 6700cSt@40°C, 3200cSt@50°C	500 ml	540811	727

pHMETRY

In industrial sectors as well as scientific analysis and research, the growing need for specific reagents for calibration of pH-meters, pH determination and buffering needs has led CARLO ERBA Reagents to offer the following product lines:
- Buffers in ready-to-use solution: colorless & colored
- Buffers in concentrated solution - Normex vial: colorless & colored
- pH indicators in solution
- pH indicator papers

Buffers in colorless solution, ready-to-use

These solutions are traceable to N.I.S.T and precisely standardized at 20°C, which makes them ideal for solving calibration problems with other solutions and preventing errors due to various factors such as the kind of salt or water used.

Description	Notes	Size	Code	Page
Ammonia buffer solution pH 10		5 l	PS0194/22	151
Ammonia buffer solution pH 10		5 l	PS0194/95	151
Ammonia buffer solution pH 10		10 l	PS0194/96	151
Boric buffer solution		5 l	PS0226/29	195
Boric buffer solution		10 l	PS0226/41	195
Buffer acetate pH 4.5		5 l	PS0784/95	203
Buffer pH 1		500 ml	486211	203
Buffer pH 1.68		500 ml	486751	204
Buffer pH 2		500 ml	486231	204
Buffer pH 3		500 ml	486251	204
Buffer pH 3		1l	486252	204
Buffer pH 3.56		500 ml	486741	205
Buffer pH 4		500 ml	486271	205
Buffer pH 4		1 l	486273	205
Buffer pH 4		5 l	486274	205
Buffer pH 4		10 l	486276	205
Buffer pH 4.62		500 ml	486841	206
Buffer pH 5		500 ml	486311	206
Buffer pH 6		500 ml	486331	206
Buffer pH 6.88		500 ml	486871	207
Buffer pH 7		500 ml	486451	207
Buffer pH 7		1 l	486453	207
Buffer pH 7		5 l	486454	207
Buffer pH 7		10 l	486456	207
Buffer pH 7		25 l	486455	207
Buffer pH 7.20 Weise		500 ml	486411	208
Buffer pH 8		500 ml	486541	208
Buffer pH 8		1 l	486542	208
Buffer pH 9		500 ml	486591	209
Buffer pH 9		1 l	486593	209
Buffer pH 9		5 l	486594	209
Buffer pH 9.22		500 ml	486881	209
Buffer pH 10		1 l	PS0200/15	210
Buffer pH 10		5 l	PS0200/95	210
Buffer pH 10		500 ml	486611	210
Buffer pH 10		1 l	486613	210
Buffer pH 10		5 l	486614	210
Buffer pH 10		10 l	486615	210
Buffer pH 11		500 ml	486771	211
Buffer pH 11		1 l	486772	211

Description	Notes	Size	Code	Page
Buffer pH 12		500 ml	486691	211
Buffer pH 13		500 ml	486701	211
Phosphate buffer pH 6.8		10 l	524952	529
Phosphate buffer pH 7.4		5 l	524965	529
Phosphate buffer pH 7.4		5 l	PS0740/95	529

Buffers in colored solution, ready-to-use

To enable immediate identification of the buffer, the following colored solutions, traceable to N.I.S.T, are available.

Description	Notes	Size	Code	Page
Buffer pH 4	Color : Red	500 ml	486761	205
Buffer pH 4	Color : Red	1 l	486762	205
Buffer pH 7	Color : Green	500 ml	486791	207
Buffer pH 7	Color : Green	1 l	486792	207
Buffer pH 9	Color : Blue	500 ml	PS0427/19	209
Buffer pH 9	Color : Blue	1 l	PS0427/15	209
Buffer pH 10.06	Color : Blue	500 ml	486811	210
Buffer pH 10.06	Color : Blue	1 l	486812	210

Buffers in colorless solution, NORMEX

Buffers usually consist of a diluted solution of the buffering system.
Given their usually low concentration, long-term storage of these solutions may lead to the development of mold or other inconveniences.
To avoid these problems, concentrated buffer solutions packaged in polythene NORMEX vials are available.
With the aid of a 500ml volumetric flask, a funnel and a glass stirrer, each Normex buffer package can be used to prepare 500ml of buffer solution at the desired pH with a maximum error of ±0.05 pH units. Detailed instructions for use are printed on the package of each individual Normex buffer. The correct preparation procedure provides for the use of boiled distilled water with a recommended preparation temperature of 20°C.
The characteristics of this line are:
• vial specifically designed by CARLO ERBA Reagents to meet the user's needs
• quick and simple preparation of 500ml of solution at a known pH

Description	Notes	Size	Code	Page
Buffer pH 1	To dilute to 500 ml		486221	203
Buffer pH 2	To dilute to 500 ml		486241	204
Buffer pH 3	To dilute to 500 ml		486261	204
Buffer pH 4	To dilute to 500 ml		486281	205
Buffer pH 5	To dilute to 500 ml		486301	206
Buffer pH 6	To dilute to 500 ml		486321	206
Buffer pH 6.8	To dilute to 500 ml		486401	207
Buffer pH 7	To dilute to 500 ml		486421	207
Buffer pH 7.2	To dilute to 500 ml		486441	208
Buffer pH 7.4	To dilute to 500 ml		486461	208
Buffer pH 8	To dilute to 500 ml		486531	209
Buffer pH 9	To dilute to 500 ml		486571	209
Buffer pH 10	To dilute to 500 ml		486601	210
Buffer pH 11	To dilute to 500 ml		486631	211
Buffer pH 12	To dilute to 500 ml		486621	211
Buffer pH 13	To dilute to 500 ml		486641	211

Buffers in colored solution, NORMEX

To enable immediate identification of the buffer, the following colored concentrated buffer solutions packaged in polythene NORMEX vials are available.
The characteristics of this line are:
• vial specifically designed by CARLO ERBA Reagents to meet the user's needs
• quick and simple preparation of 500ml of solution at a known pH

Description	Notes	Size	Code	Page
Buffer pH 4	Color : red - To dilute to 500 mL		486291	205
Buffer pH 7	Color : yellow - To dilute to 500 mL		486431	208
Buffer pH 10.06	Color : blue - To dilute to 500 mL		486581	210

pH indicators in solution

The direct method, i.e., placing the indicator in the solution being analyzed, is the most efficient and thus the most widely adopted method for acid-base titration.
Since the indicator competes with the species being titrated, its use in significant quantities may alter the result of the titration; therefore it is critically important to choose the most appropriate indicator for the type of analysis being performed.
For the determination of pH values in aqueous solutions, universal indicators in solution are available for measurements in a variety of pH ranges. These products are supplied complete with a color scale and detailed instructions for use. The sensitivity of these solutions is higher than that of pH indicator papers.

Description	Notes	Size	Code	Page
Alizarin saturated solution in ethanol		250 ml	E415932	136
Alkali Blue 6B solution 2% in ethanol		250 ml	E428541	137
Bromocresol Green 0.04% hydroalcoholic solution		250 ml	E491255	199
Bromocresol purple solution 0.4% in ethanol		250 ml	E470045	200
Bromophenol blue solution 0.4% in ethanol		250 ml	E428665	201
Bromophenol blue solution 0.02%		100 ml	428691	201
Bromothymol blue 0.4% in ethanol		250 ml	E428715	202
Bromothymol blue 0.02%		100 ml	428731	202
o-Cresol Red solution 0.2% in ethanol		250 ml	E476805	267
Crystal violet solution 0.5% in anhydrous acetic acid		500 ml	E491551	268
Indicator universal pH 0-5 hydroalcoholic solution		25 ml	E455661	393
Indicator universal pH 0-5 hydroalcoholic solution		500 ml	E455662	393
Indicator universal pH 1-11 hydroalcoholic solution		25 ml	E455702	393
Indicator universal pH 1-11 hydroalcoholic solution		500 ml	E455706	393
Indicator universal pH 1-11 water solution		25 ml	E455711	394
Indicator universal pH 1-11 water solution		500 ml	E455712	394
Indicator universal pH 9-13 hydroalcoholic solution		25 ml	E455641	394
Indicator universal pH 9-13 hydroalcoholic solution		500 ml	E455642	394
Methylene blue solution 1%		500 ml	E429011	465
Methyl Orange solution 0.1%		500 ml	E423562	467
Methyl red solution water/ethanol 0.2%		250 ml	E476915	469
Methyl red solution 0.1% in ethanol		250 ml	E476921	469
Phenol Red solution 0.2% in ethanol		250 ml	E476845	525
Phenolphthalein solution 1% in ethanol		250 ml	451191	526
Phenolphthalein solution 1% in ethanol		1 l	451192	526
Thymol blue 0.4% in ethanol		250 ml	E429235	700
Thymolphthalein 0.1% hydroalcoholic solution		250 ml	E487755	701
o-Tolidine solution 0.1%		1 l	488461	707

pH paper, litmus and indicator paper in rolls for special uses

Indicator papers represent a convenient and particularly simple instrument for measuring pH.
Indicator papers are actually filter paper impregnated with indicator solutions.
A wide variety of indicator papers are available, allowing the user to select the product most suited to the type of sample being analyzed and the degree of certainty required on the final result.
This is the most basic type of paper and does not require a color scale for pH determination.
This type of test paper provides a relative indication and is useful in determining whether a solution is acid, neutral or basic.

Description	Notes	Size	Code	Page
Congo red paper	Congo red paper, Color change : red --> Blue, Change pH 5.0-->3.0	1 roll	435220000	259
Lead (II) acetate paper	Paper lead acetate, Color change : White --> Brown-Black	1 roll	435180000	427
Litmus paper	Blue litmus paper, Color change : blue --> red, change pH 8.0 - 5.0	1 roll	435260000	435
Litmus paper	Neutral litmus paper, Color change : red <-- purple --> Blue, Change pH 5.0 - 8.0	1 roll	435300000	435
Litmus paper	Red litmus paper, Color change : red --> blue, Change pH 5.0 - 8.0	1 roll	435340000	435
Phenolphthalein paper	Paper phenolphthalein, Color change : white --> red, change pH 8.3-->10.0	1 roll	435060000	526
Potassium iodide starch paper	Paper starch iodide, Color change : White --> Blue-purple	1 roll	434980000	560

pH paper, high-sensitivity indicator paper in rolls

High-sensitivity test papers cover small pH ranges with a detection scan of between 0.2 - 0.5 units, while the attached color scale provides the reference colors.
These test papers are suitable for measuring the pH of unbuffered or weakly buffered solutions.

Description	Notes	Size	Code	Page
Indicator papers	Monochromatic scale. pH range 0.5 - 5.5. Sensitivity 0.5 pH	1 roll	435421000	392
Indicator papers	Monochromatic scale. pH range 4.0 - 7.0. Sensitivity 0.3 pH	1 roll	435431000	392
Indicator papers	Monochromatic scale. pH range 6.4 - 8.0. Sensitivity 0.2 pH	1 roll	435441000	392
Indicator papers	Monochromatic scale. pH range 7.2 - 9.7. Sensitivity 0.3 pH	1 roll	435451000	392
Indicator papers	Monochromatic scale. pH range 8.0 - 10.0. Sensitivity 0.2/0.3 pH	1 roll	435461000	392
Indicator papers	Monochromatic scale. pH range 9.0 - 13.0. Sensitivity 0.5 pH	1 roll	435471000	392
Indicator papers	Monochromatic scale. pH range 5.5 - 9.0. Sensitivity 0.5 pH	1 roll	435511000	392
Indicator papers	Monochromatic scale, pH range 1.0 - 11.0, Sensitivity 1,0 pH	1 roll	435140000	392
Indicator papers	Monochromatic scale, pH range 1.0 - 14.0, Sensitivity 1,0/2,0 pH	1 roll	435150000	392
Indicator papers	Monochromatic scale, pH range 3.8 - 5.8, Sensitivity 0.2/0.3 pH	1 roll	435161000	392
Indicator papers	Monochromatic scale, pH range 5.4 - 7.0, Sensitivity 0.2/0.3 pH	1 roll	435171000	392

pH paper, in roll three-colored

Three-color test papers have three parallel sections with different colors, formed by three different mixtures of indicators separated by a fine hydrophobic strip to prevent any color migration. The three indicator sections ensure high-precision results that are remarkably easy to read. The reference color chart provides three different color indications for each pH unit.

Description	Notes	Size	Code	Page
Indicator papers	Trichromic scale, pH range 1.0 - 11.0, Sensitivity 1,0 pH	1 roll	435131000	392

pH paper strips, with built-in color scale

These indicator papers are unique in that they have the color scale provided directly on each strip, usually divided into 8 color notches with the corresponding pH indicated for each.
This allows the user to perform quick and precise pH measurements without the need for an external color guide. These test papers are also suitable for colored solutions or suspensions, since the color of the solution to be analyzed acts in the same manner on the indicator scale as it does on the result of the solution being tested.
An invisible hydrophobic strip placed just above the last color notch on the color scale forms a barrier that prevents the test liquid, which may be corrosive, toxic or otherwise dangerous, from coming into contact with the user's fingers through capillary action.

Description	Notes	Size	Code	Page
Indicator papers	pH range 1.0 - 2.8. Sensitivity 0.2/0.3	100 stripes	435493000	393
Indicator papers	pH range 1.8 - 3.8. Sensitivity 0.2/0.3	100 stripes	435494000	393
Indicator papers	pH range 2.8 - 4.6. Sensitivity 0.2/0.3	100 stripes	435495000	393
Indicator papers	pH range 3.8 - 5.5. Sensitivity 0.2/0.3	100 stripes	435496000	393
Indicator papers	pH range 5.2 - 6.8. Sensitivity 0.2/0.3	100 stripes	435497000	393
Indicator papers	pH range 6.0 - 8.1. Sensitivity 0.2/0.3	100 stripes	435498000	393
Indicator papers	pH range 7.2 - 8.8. Sensitivity 0.2/0.3	100 stripes	435501000	393
Indicator papers	pH range 8.0 - 9.7. Sensitivity 0.2/0.3	100 stripes	435502000	393
Indicator papers	pH range 1.0 - 12.0. Sensitivity 1.0	200 stripes	435491000	393

pH paper strips, color-fixed

These indicator papers are indelible. This property depends on the chemical bond between the indicator and the cellulose fiber, and it allows the test papers to be used even in highly alkaline solutions.
The strip length allows a wide operating margin, thus preventing contact between the operator's fingers and the solution being analyzed.

Description	Notes	Size	Code	Page
Indicator papers	pH range 0.0 - 14.0, Sensitivity 1.0	100 stripes	435121000	393
Indicator papers	pH range 0.0 - 6.0. Sensitivity 0.5	100 stripes	435642000	393
Indicator papers	pH range 2.0 - 9.0. Sensitivity 0.5	100 stripes	435643000	393
Indicator papers	pH range 4.5 - 10.0. Sensitivity 0.5	100 stripes	435644000	393
Indicator papers	pH range 7.0 - 14.0. Sensitivity 0.3/0.4	100 stripes	435645000	393
Indicator papers	pH range 0.3 - 2.3. Sensitivity 0.3	100 stripes	435646000	393

VOLUMETRY

Volumetric titration is a standard analytical technique used specifically for quantitative determination of analytes in solution. Despite the numerous sophisticated instrumental innovations resulting from recent technological developments, the classical volumetric analysis technique has maintained its importance in the area of analytical chemistry.
CARLO ERBA Reagents offers different lines of volumetric solutions to meet the needs of a wide variety of users:
- Ready-to-use solutions
- Concentrated solutions in Normex vial

Volumetric solutions, traceable to NIST, ready-to-use

For routine analyses, our line of ready-to-use volumetric solutions is ideal for quick and convenient use with guaranteed quality. CARLO ERBA Reagents offers a wide range with exact title of the batch written on the label and certificate of analysis, traceability to S.R.M. from N.I.S.T., a ± 0.1% precision.
These solutions are available in both polythene or glass bottles, with ISO 45 bottle mouths which are adaptable to automatic titrators, as well as 10 and 5 liters Kubidos® packages supplied with tap and cap, ideal for excellent storage and dosing of the product.
Kubidos®. consists of a cubic box containing a HDPE, a tap and cap ensuring easy flow of the required volume.
With the low volume of product in contact with air, the risks of carbonation of alkaline solutions and microbial contamination are limited.

Description	Notes	Size	Code	Page
Ethylenediaminetetraacetic acid disodium salt 0.1 mol/l (0.2N)		1 l	405511000	325
Ethylenediaminetetraacetic acid disodium salt 0.1 mol/l (0.2N)		5 l	405513000	325
Ethylenediaminetetraacetic acid disodium salt 0.1 mol/l (0.2N)		10 l	405512000	325
Ethylenediaminetetraacetic acid disodium salt 0.05 mol/l (0.1N)		1 l	405501000	325
Ethylenediaminetetraacetic acid disodium salt 0.05 mol/l (0.1N)		5 l	405502000	325
Ethylenediaminetetraacetic acid disodium salt 0.01 mol/l (0.02N)		1 l	405442000	326
Hydrochloric acid 2 mol/l (2N)		1 l	404067000	378
Hydrochloric acid 2 mol/l (2N)		5 l	404062000	378
Hydrochloric acid 2 mol/l (2N)		10 l	404061000	378
Hydrochloric acid 1 mol/l (1N)		1 l	404097000	379
Hydrochloric acid 1 mol/l (1N)		5 l	404092000	379
Hydrochloric acid 1 mol/l (1N)		10 l	404091000	379
Hydrochloric acid 0.5 mol/l (0.5N)		1 l	404147000	380
Hydrochloric acid 0.5 mol/l (0.5N)		5 l	404142000	380
Hydrochloric acid 0.5 mol/l (0.5N)		10 l	404141000	380
Hydrochloric acid 0.1 mol/l (0.1N)		1 l	404197000	381
Hydrochloric acid 0.1 mol/l (0.1N)		5 l	404192000	381
Hydrochloric acid 0.1 mol/l (0.1N)		10 l	404191000	381
Hydrochloric acid 0.01 mol/l (0.01N)		1 l	404267	383
Iodine 0.5 mol/l (1N)		500 ml	456135000	397
Iodine 0.5 mol/l (1N)		1 l	456137000	397
Iodine 0.05 mol/l (0.1N)		500 ml	456036000	398
Iodine 0.05 mol/l (0.1N)		1 l	456037000	398
Nitric acid 2 mol/l (2N)		5 l	408185000	496
Nitric acid 1 mol/l (1N)		500 ml	408176000	496
Nitric acid 1 mol/l (1N)		1 l	408171000	496
Nitric acid 0.1 mol/l (0.1N)		500 ml	408206000	496
Perchloric acid 0.1 mol/l (0.1N) in acetic acid		500 ml	409136	516
Perchloric acid 0.1 mol/l (0.1N) in acetic acid		1 l	409131	516
Potassium hydroxide 1 mol/l (1N)		1 l	472287000	554
Potassium hydroxide 1 mol/l (1N)		5 l	472282000	554
Potassium hydroxide 1 mol/l (1N)		10 l	472281000	554

Description	Notes	Size	Code	Page
Potassium hydroxide 0.5 mol/l (0.5N)		1 l	472337000	554
Potassium hydroxide 0.5 mol/l (0.5N)		5 l	472332000	554
Potassium hydroxide 0.5 mol/l (0.5N)		10 l	472331000	554
Potassium hydroxide 0.5 mol/l (0.5N) in ethanol		1 l	472021000	555
Potassium hydroxide 0.5 mol/l (0.5N) in ethanol		1 l	472022000	555
Potassium hydroxide 0.5 mol/l (0.5N) in methanol		500 ml	472366000	555
Potassium hydroxide 0.5 mol/l (0.5N) in methanol		1 l	472364000	555
Potassium hydroxide 0.5 mol/l (0.5N) in methanol		5 l	472367000	555
Potassium hydroxide 0.25 mol/l (0.25N)		1 l	472427000	556
Potassium hydroxide 0.25 mol/l (0.25N)		5 l	472422000	556
Potassium hydroxide 0.25 mol/l (0.25N)		10 l	472421000	556
Potassium hydroxide 0.1 mol/l (0.1N)		1 l	472457000	557
Potassium hydroxide 0.1 mol/l (0.1N)		5 l	472452000	557
Potassium hydroxide 0.1 mol/l (0.1N)		10 l	472451000	557
Potassium hydroxide 0.1 mol/l (0.1N) in methanol		500 ml	472486000	557
Potassium hydroxide 0.1 mol/l (0.1N) in methanol		1 l	472484000	557
Potassium hydroxide 0.1 mol/l (0.1N) in ethanol		1 l	472041000	557
Potassium hydroxide 0.1 mol/l (0.1N) in ethanol		1 l	472042000	557
Potassium permanganate 0.2 mol/l (1N)		1 l	473514000	563
Potassium permanganate 0.02 mol/l (0.1N)		1 l	473567000	563
Potassium permanganate 0.02 mol/l (0.1N)		5 l	473565000	563
Silver nitrate 1 mol/l (1N)		500 ml	424036000	605
Silver nitrate 1 mol/l (1N)		1 l	424035000	605
Silver nitrate 0.5 mol/l (0.5N)		1 l	424051000	605
Silver nitrate 0.1 mol/l (0.1N)		1 l	424067000	605
Silver nitrate 0.1 mol/l (0.1N)		5 l	424062000	605
Silver nitrate 0.1 mol/l (0.1N)		5 l	424063000	605
Silver nitrate 0.1 mol/l (0.1N)		10 l	424061000	605
Silver nitrate 0.05 mol/l (0.05N)		1 l	424101000	606
Sodium hydroxide 2 mol/l (2N)		500 ml	480686000	633
Sodium hydroxide 2 mol/l (2N)		1 l	480687000	633
Sodium hydroxide 2 mol/l (2N)		5 l	480682000	633
Sodium hydroxide 2 mol/l (2N)		10 l	480681000	633
Sodium hydroxide 2 mol/l (2N)		20 l	480684000	633
Sodium hydroxide 1 mol/l (1N)		1 l	480717000	634
Sodium hydroxide 1 mol/l (1N)		5 l	480711000	634
Sodium hydroxide 1 mol/l (1N)		5 l	480714000	634
Sodium hydroxide 1 mol/l (1N)		10 l	480713000	634
Sodium hydroxide 0.5 mol/l (N/2)		1 l	480777000	634
Sodium hydroxide 0.5 mol/l (N/2)		5 l	480771000	634
Sodium hydroxide 0.5 mol/l (N/2)		10 l	480772000	634
Sodium hydroxide 0.5 mol/l (N/2)		10 l	480773000	634
Sodium hydroxide 0.25 mol/l (N/4)		1 l	480867000	635
Sodium hydroxide 0.25 mol/l (N/4)		5 l	480861000	635
Sodium hydroxide 0.25 mol/l (N/4)		10 l	480862000	635
Sodium hydroxide 0.1 mol/l (N/10)		1 l	480897000	636
Sodium hydroxide 0.1 mol/l (N/10)		5 l	480891000	636
Sodium hydroxide 0.1 mol/l (N/10)		10 l	480892000	636
Sodium hydroxide 0.1 mol/l (N/10)		10 l	480893000	636
Sodium thiosulfate 0.1 mol/l (0.1N)		1 l	484077000	657
Sodium thiosulfate 0.1 mol/l (0.1N)		5 l	484072000	657

Description	Notes	Size	Code	Page
Sodium thiosulfate 0.1 mol/l (0.1N)		10 l	484071000	657
Sulfuric acid 1 mol/l (2N)		1 l	410547000	681
Sulfuric acid 1 mol/l (2N)		10 l	410548000	681
Sulfuric acid 0.5 mol/l (1N)		1 l	410577000	681
Sulfuric acid 0.5 mol/l (1N)		5 l	410572000	681
Sulfuric acid 0.5 mol/l (1N)		5 l	410575000	681
Sulfuric acid 0.5 mol/l (1N)		10 l	410571000	681
Sulfuric acid 0.25 mol/l (0.5N)		1 l	410667000	682
Sulfuric acid 0.25 mol/l (0.5N)		5 l	410663000	682
Sulfuric acid 0.25 mol/l (0.5N)		10 l	410662000	682
Sulfuric acid 0.05 mol/l (0.1N)		1 l	410717000	683
Sulfuric acid 0.05 mol/l (0.1N)		5 l	410712000	683
Sulfuric acid 0.05 mol/l (0.1N)		10 l	410711000	683

NORMEX, concentrated volumetric solutions

CARLO ERBA Reagents also offers a series of concentrated volumetric solutions packaged in convenient NORMEX vials.
These are ideal for users who would like to prepare solutions immediately before the analysis in a rapid and precise manner. The contents of each vial, brought to a volume of 1000ml with distilled water, allows the user to prepare volumetric solutions at a known concentration with a guaranteed titration factor equal to ± 0.005.

Description	Notes	Size	Code	Page
Acetic acid 0.1 mol/l (0.1N)	Volume : 55 ml		401561	124
Ammonium thiocyanate 0.1 mol/l (0.1N)	Volume : 55 ml		421001	165
Ammonium thiocyanate 0.01 mol/l (0.01N)	Volume : 55 ml		421061	166
Ethylenediaminetetraacetic acid disodium salt 0.1 mol/l (0.2N)	Volume : 165 ml		405421	325
Ethylenediaminetetraacetic acid disodium salt 0.01 mol/l (0.02N)	Volume : 55 ml		405431	326
Hydrochloric acid 1 mol/l (1N)	Volume : 165 ml		404111	379
Hydrochloric acid 0.5 mol/l (0.5N)	Volume : 165 ml		404161	380
Hydrochloric acid 0.1 mol/l (0.1N)	Volume : 55 ml		404211	381
Hydrochloric acid 0.01 mol/l (0.01N)	Volume : 55 ml		404251	383
Iodine 0.05 mol/l (0.1N)	Volume : 60 ml		456051	398
Iodine 0.005 mol/l (0.01N)	Volume : 60 ml		456121	398
Nitric acid 0.1 mol/l (0.1N)	Volume : 55 ml		408231	496
Oxalic acid 0.05 mol/l (0.1N)	Volume : 165 ml		408871	507
Oxalic acid 0.005 mol/l (0.01N)	Volume : 55 ml		408901	507
Potassium bromate 0.0167 mol/l (0.1N)	Volume : 60 ml		470681	538
Potassium dichromate 0.0167 mol/l (0.1 N)	Volume : 60 ml		470501	546
Potassium hydroxide 1 mol/l (1N)	Volume : 165 ml		472311	554
Potassium hydroxide 0.5 mol/l (0.5N)	Volume : 55 ml		472391	555
Potassium hydroxide 0.1 mol/l (0.1N)	Volume : 55 ml		472511	557
Potassium iodate 0.0167 mol/l (0.1N)	Volume : 60 ml		472601	558
Potassium iodate 0.00167 mol/l (0.01N)	Volume : 60 ml		472631	558
Potassium permanganate 0.02 mol/l (0.1N)	Volume : 65 ml		473591	563
Potassium permanganate 0.002 mol/l (0.01N)	Volume : 60 ml		473661	564
Silver nitrate 0.1 mol/l (0.1N)	Volume : 60 ml		424081	605
Silver nitrate 0.01 mol/l (N/100)	Volume : 60 ml		424161	606
Sodium arsenite 0.05 mol/l (0.1N)	Volume : 60 ml		402381	613
Sodium carbonate 0.05 mol/l (0.1N)	Volume : 55 ml		479211	618
Sodium chloride 0.1 mol/l (0,1N)	Volume : 55 ml		479781	620
Sodium hydroxide 1 mol/l (1N)	Volume : 165 ml		480741	634
Sodium hydroxide 0.5 mol/l (N/2)	Volume : 55 ml		480801	634

Description	Notes	Size	Code	Page
Sodium hydroxide 0.1 mol/l (N/10)	Volume : 55 ml		480921	636
Sodium hydroxide 0.01 mol/l (N/100)	Volume : 55 ml		481001	637
Sodium thiosulfate 0.1 mol/l (0.1N)	Volume : 55 ml		484121	657
Sodium thiosulfate 0.01 mol/l (0.01N)	Volume : 55 ml		484161	658
Sulfuric acid 0.5 mol/l (1N)	Volume : 165 ml		410591	681
Sulfuric acid 0.25 mol/l (0.5N)	Volume : 55 ml		410681	682
Sulfuric acid 0.05 mol/l (0.1N)	Volume : 55 ml		410731	684
Sulfuric acid 0.005 mol/l (0.01N)	Volume : 55 ml		410791	685

AGRO ANALYSIS

Rigorous control of all the products in the food chain (milk, cereals, meats, fruits and vegetables) has recently become even more important to prevent problems associated with the adulteration of foodstuffs as well as to guarantee that all the necessary elements for a healthy diet are present in the food we eat every day.

Reagents for food analysis

In order to offer its customers ready-to-use reagents prepared in compliance with the specifications set forth by international standards and regulations for food analysis, CARLO ERBA Reagents has developed a wide range of products dedicated to the agriculture and food sector.

Description	Notes	Size	Code	Page
ADF Solution		2.5 l	526625	134
ADF Solution		10 l	526623	134
Amidoschwarz 10B solution		5 l	502050	144
Amidoschwarz 10B solution		10 l	502051	144
Boric Acid 20g/l		5 l	PS0703/22	194
Boric acid 20 g/l with indicator		5 l	PS0562/22	194
Boric acid 4%		5 l	502002	194
Boric acid 4 % with indicator		5 l	502601	194
Boric acid 1% with indicator		5 l	502611	195
Boric acid 1% with indicator		10 l	502612	195
Carrez reagent potassium salt		1 l	502711	235
Carrez reagent zinc salt		1 l	502701	235
Ethylenediaminetetraacetic acid disodium salt 0.0178 mol/l (N/28)		10 l	526011	326
Fehling's A reagent		500 ml	449926	331
Fehling's A reagent		1 l	449927	331
Fehling's A reagent		10 l	PS0492/41	331
Fehling's B reagent		500 ml	E449936	331
Fehling's B reagent		1 l	E449937	331
Fehling's B reagent		10 l	PS0493/41	331
Hanus's reagent		1 l	E454872	356
Hydrochloric acid 1.128% (m/v)		1 l	502761	376
Hydrochloric acid 6 mol/l (6N)		1 l	502831	376
Hydrochloric acid 6 mol/l (6N)		18 l	502832	376
Hydrochloric acid 4 mol/l (4N)		1 l	502010	377
Hydrochloric acid 3 mol/l (3N)		1 l	502621	378
Hydrochloric acid 3 mol/l (3N)		2.5 l	502622	378
Hydrochloric acid 3 mol/l (3N)		25 l	502011	378
Hydrochloric acid 0.714 mol/l (N/1.4)		10 l	526531	379
Hydrochloric acid 0.2 mol/l (0.2N)		1 l	502631	380
Hydrochloric acid 0.0714 mol/l (N/14)		10 l	526533	382
Hydrogen peroxide solution 30%		5 l	502044	388
Isoamyl alcohol	With indicator	500 ml	E413903	408
Isoamyl alcohol	Without indicator	1 l	413892	408
Mixture C.H.M.		2.5 l	524411	472
Mixture C.H.M.		5 l	524412	472
Mix Diethyl ether/Ethanol 70/30 (w/w)		1 l	463251	473
Mix Diethyl ether/Ethanol 70/30 (w/w)		2.5 l	463255	473
Mix Diethyl ether / Ethanol absolute 50/50 (w/w)		5 l	529311	473
Mix Diethyl Ether / Ethanol 50/50 (v/v)		5 l	529381	473
Mixture for checking solderings		5 l	502671	474
NDF Solution		2.5 l	526920	482
NDF Solution		25 l	526921	482

Description	Notes	Size	Code	Page
NDF Plus solution		25 l	526941	483
Perchloric acid 60%		1 l	502046	516
Potassium chromate 5% solution		1 l	502681	543
Potassium hydroxide 0.46 mol/l (0.46N)		5 l	502212	556
Potassium hydroxide 0.23 mol/l (0.23N)		5 l	502092	556
Reagent for lipolysis		2.5 l	524910	585
Reagent for lipolysis		5 l	524912	585
Reagent TAN		2.5 l	PS0327/21	585
Reagent TAN		5 l	PS0327/29	585
Reagent TAN		10 l	PS0327/39	585
Reagent TBN		2.5 l	PS0423/21	586
Reagent TBN		5 l	PS0423/29	586
Reagent TBN		10 l	PS0423/39	586
Sand of Fontainebleau		1 kg	502064	593
Sand of Fontainebleau		5 kg	502063	593
Sand of Fontainebleau		25 kg	502062	593
Selenic mixture		250 g	463421	596
Selenic mixture		1 kg	463422	596
Sodium hydroxide solution 40%		5 l	502721	627
Sodium hydroxide solution 35-37%		5 l	502112	628
Sodium hydroxide solution 35-37%		25 l	502113	628
Sodium hydroxide solution 32%		25 kg	524510	628
Sodium hydroxide solution 30%		5 l	502741	629
Sodium hydroxide solution 30%		1 l	502731	629
Sodium hydroxide solution 10% w/v		5 l	508615	630
Sodium hydroxide 5 mol/l (5N)		1 l	526513	632
Sodium hydroxide 5 mol/l (5N)		5 l	526512	632
Sodium hydroxide 0.7 mol/l (N/1.4)		10 l	526511	634
Sodium hydroxide 0.357 mol/l (0.357N)		1 l	480837000	635
Sodium hydroxide 0.2 mol/l (N/5)		500 ml	502782	635
Sodium hydroxide 0.2 mol/l (N/5)		10 l	502781000	635
Sulfuric acid 98%		1 l	410421	675
Sulfuric acid 98%		2.5 l	502641	675
Sulfuric acid 90%		1 l	410391	678
Sulfuric acid 90%		2.5 l	410394	678
Sulfuric acid 90%		50 kg	E410395	678
Sulfuric acid 72%		2.5 l	502771	679
Sulfuric acid 0.26 mol/l (0.52N)		5 l	502202	682
Sulfuric acid 0.13 mol/l (0.26N)		5 l	502651	683
Sulfuric acid 0.1 mol/l (0.2N)		1 l	502100000	683
Sulfuric acid d=1,820		5 l	502020	686
Wijs' reagent		250 ml	E491901	731
Wijs' reagent		1 l	E491902	731

Kjeldahl, Nitrogen content

For the determination of the nitrogen content using the Kjeldahl method, the following mineralization catalysts are available:

Description	Notes	Size	Code	Page
Kjeldahl antifoam	Composition: Sodium sulfate 0.97 g/Silicone antifoam 0.03 g	1000 x 1 g	502811	419
Kjeldahl catalyst according to Wieninger	Composition : Sodium sulfate 4.88 g/ Copper sulfate 0.07 g/ Selenium 0.05 g	1000 x 5 g	502821	419

Description	Notes	Size	Code	Page
Kjeldahl catalyst for water analysis	Composition : Potassium sulfate 5.0 g/ Selenium 5 mg	1000 x 5 g	502121	420
Kjeldahl catalyst for water analysis	Composition : Potassium sulfate 5.0 g/ Selenium 50 mg	1000 x 5 g	502122	420
Kjeldahl catalyst without selenium and titanium	Composition : Potassium sulfate 3.50 g/Copper sulfate 0.40 g	1000 x 3.9 g	502791	420
Kjeldahl catalyst without selenium and titanium	Composition : Potassium sulfate 5.0 g/Copper sulfate 0.50 g	1000 x 5 g	502792	420
Kjeldahl selenium catalyst	Composition : Potassium sulfate 4.63 g/Copper sulfate 0.28 g/Selenium 0.09g	1000 x 5 g	502120	420
Kjeldahl titanium catalyst	Composition : Potassium sulfate 3.5 g/Copper sulfate 0.105 g/Titane dioxide 0.105 g	1000 x 3.5 g	502123	420
Kjeldahl titanium catalyst	Composition : Potassium sulfate 5.00 g/Copper sulfate 0.15 g/Titane dioxide 0.15 g	1000 x 5 g	502801	420
Sodium hydroxide solution 32%		1 l	480561	628
Sodium hydroxide solution 32%		2.5 l	480566	628
Sodium hydroxide solution 32%		5 l	526521	628
Sodium hydroxide solution 32%		10 l	480564	628
Sodium hydroxide solution 32%		25 kg	480562	628
Sodium hydroxide solution 32%		30 kg	480563	628

ELECTRONICS

CARLO ERBA Reagents line of products for the electronics industry, is characterized by high chemical purity. As they are subjected to meticulous filtration processes, these solvents guarantee a particulate content less than 250 parts per mm, for particles with diameters larger than 0.5 micron.

RSE, Special Solvents & Reagents

RSE (Special Reagents for Electronics) for all applications which do not require control of particle content.

Description	Notes	Size	Code	Page
Acetic acid glacial		2.5 l	401462	119
Acetone		1 l	401051	127
Acetone		2.5 l	401058	127
Acetone		5 l	401054	127
Acetone		5 l	401055	127
Acetone		22 kg	401052	127
Ammonia solution 30%		1 l	420071	147
Ammonia solution 30%		2 l	420073	147
Ammonia solution 30%		5 l	420077	147
Ammonia solution 30%		25 kg	420075	147
Ammonia solution 25%		5 l	420085	148
Ammonia solution 25%		25 kg	420084	148
Dichloromethane		1 l	463162	284
Dichloromethane		2.5 l	463161	284
Ethanol absolute anhydrous	Only for Italian market	1 l	414587	312
Ethanol absolute anhydrous		1 l	4145872	312
Ethanol absolute anhydrous	Only for Italian market	2.5 l	414583	312
Ethanol absolute anhydrous		2.5 l	4145832	312
Ethyl acetate		1 l	448307	321
Ethyl acetate		2.5 l	448308	321
Ethyl acetate		5 l	448306	321
Glycerol (30°Bé)		1 l	453771	349
Glycerol (30°Bé)		2.5 l	453772	349
Hydrochloric acid 37%		1 l	403977	370
Hydrochloric acid 37%		2.5 l	403971	370
Hydrofluoric acid 50%		1 l	405737	384
Hydrogen peroxide solution 30%		1 l	412161	387
Hydrogen peroxide solution 30%		5 l	412162	387
Hydrogen peroxide solution 30%		25 kg	412163	387
Isopar G		2.5 l	526151	412
Methanol		1 l	414917	457
Methanol		2.5 l	414914	457
Nitric acid 69.5%		1 l	408097	491
Nitric acid 69.5%		2.5 l	408098	491
Nitric acid 65%		1 l	408101	494
Nitric acid 65%		2.5 l	408102	494
Nitric acid 65%		260 kg	408103	494
Nitric acid 18%		1 l	408191	495
Orthophosphoric acid 85%		2.5 l	406021	503
Potassium hydroxide, pellets		1 kg	472097	552
Potassium hydroxide solution 45%		5 l	472103	553
Propan-2-ol		1 l	415237	575
Propan-2-ol		2.5 l	415235	575

Description	Notes	Size	Code	Page
Propan-2-ol		5 l	415231	575
Propan-2-ol		5 l	415238	575
Propan-2-ol		27 l	415236	575
Propan-2-ol		200 l	415233	575
Sodium hydroxide, pellets		1 kg	480527	626
Sodium hydroxide, pellets		5 kg	480522	626
Sodium hydroxide, pellets		25 kg	480525	626
Sulfuric acid 96%		1 l	410374	676
Sulfuric acid 96%		2.5 l	410371	676
Xylene, mix of isomers		1 l	492358	732
Xylene, mix of isomers		2.5 l	492359	732

MOS (Metal Oxide Semiconductor) Solvents & Reagents

MOS (Metal Oxide Semiconductor) for MOS circuit production processes.

Description	Notes	Size	Code	Page
Acetone		1 l	401042	127
Acetone		2.5 l	401041	127
Ammonia solution 25%		1 l	420051	149
Ethanol absolute anhydrous		2.5 l	414692	312
Hydrochloric acid 37%		2.5 l	403941	370
Hydrofluoric acid 50%		1 l	405653	384
Hydrogen peroxide solution 30%		1 l	412081	388
Methanol		1 l	414822	457
Methanol		2.5 l	414821	457
Nitric acid 69.5%		2.5 l	408152	492
Propan-2-ol		1 l	415162	575
Propan-2-ol		2.5 l	415161	575
Sulfuric acid 96%		2.5 l	410381	676

VLSI (Very Large Scale Integration) Solvents & Reagents

VLSI (Very Large Scale Integration) for the production of microcircuits using VLSI technology.

Description	Notes	Size	Code	Page
Acetone		2.5 l	527650	127
Acetone		5 l	527655	127
Ethanol absolute anhydrous		2.5 l	527680	311
Hydrochloric acid 37%		2.5 l	527600	370
Hydrogen peroxide solution 30%		1 l	527621	387
Hydrogen peroxide solution 30%		2.5 l	527620	387
Methanol		2.5 l	527640	457
Nitric acid 69.5%		2.5 l	527670	491
Orthophosphoric acid 85%		2.5 l	527591	503
Propan-2-ol		2.5 l	527690	575
Propan-2-ol		30 l	527691	575
Sulfuric acid 96%		2.5 l	527630	675

HISTOLOGY, HEMATOLOGY AND CYTODIAGNOSTIC

A wide range of products for the sample preparation in histology, hematology and cytodiagnosis.

Fixing media

CARLO ERBA Reagents offers a wide range of fixatives, in concentrated or ready-to-use diluted form.

Description	Notes	Size	Code	Page
Fixative AFA liquid	60 ml jars filled at 30 ml. Box of 500	30 ml	508840	332
Fixative AFA liquid		1 l	526267	332
Fixative AFA liquid		5 l	526263001	332
Fixative AFA liquid		25 l	526321	332
Fixative Bouin Duboscq Brazil liquid		1 l	526271	332
Fixative Bouin Duboscq Brazil liquid		5 l	526262	332
Fixative Bouin Hollande liquid		1 l	526268	333
Fixative Bouin Hollande liquid		5 l	526269	333
Fixative Bouin liquid	40 ml jars filled at 20 ml. Box of 500	20 ml	508835	333
Fixative Bouin liquid		1 l	526270	333
Fixative Bouin liquid		5 l	526261	333
Fixative Bouin liquid		1 l	429751	333
Fixative Davidson liquid	60 ml jars filled at 30 ml. Box of 500	30 ml	508881	333
Fixative Davidson liquid	180 ml jars filled at 100 ml. Box of 100	100 ml	508883	333
Fixative Davidson liquid		5 l	526277	333
Fixative Davidson liquid	500 ml jars filled at 300 ml. Box of 32	300 ml	508882	333
Fixative FIXALL-HIS liquid		5 l	526274	334
Fixative liquid without acetic acid		10 l	526264	334
Formaldehyde 37% w/v neutralized		1 l	415686	336
Formaldehyde 37% w/v neutralized		5 l	415682	336
Formaldehyde 37% w/v neutralized		10 kg	415683	336
Formaldehyde 37% w/v neutralized		30 kg	415684	336
Formaldehyde 37% w/v neutralized		55 kg	415685	336
Formaldehyde 37% w/v		1 l	415661	337
Formaldehyde 37% w/v		2.5 l	415666	337
Formaldehyde 37% w/v		5 l	415667	337
Formaldehyde 10% v/v according to Lillie	60 ml jars filled at 30 ml. Box of 500. Colored pink.	30 ml	508850	338
Formaldehyde 10% v/v according to Lillie	140 ml jars filled at 80 ml. Box of 150. Colored pink	80 ml	508853	338
Formaldehyde 10% v/v according to Lillie	180 ml jars filled at 100 ml. Box of 100. Colored pink	100 ml	508851	338
Formaldehyde 10% v/v according to Lillie		5 l	526912	338
Formaldehyde 10% v/v according to Lillie		25 l	526911	338
Formaldehyde 5% w/v buffered at pH 6.9		5 l	415674	338
Formaldehyde 5% w/v buffered at pH 6.9		10 l	415672	338
Formaldehyde 4% w/v with sodium chloride		1 l	526934	339
Formaldehyde 4% w/v buffered at pH 6.9		1 l	415634	339
Formaldehyde 4% w/v buffered at pH 6.9		5 l	415631	339
Formaldehyde 4% w/v buffered at pH 6.9		20 l	415636	339
Formaldehyde 4% w/v buffered at pH 6.9	40 ml jars filled at 20 ml. Box of 500	20 ml	508859	339
Formaldehyde 4% w/v buffered at pH 6.9	60 ml jars filled at 30 ml. Box of 500	30 ml	508861	339
Formaldehyde 4% w/v buffered at pH 6.9	180 ml jars filled at 120 ml. Box of 100	120 ml	508862	339
Formaldehyde 4% w/v buffered at pH 6.9	500 ml jars filled at 300 ml. Box of 32	300 ml	508863	339
Formaldehyde 4% w/v buffered at pH 6.9		500 ml	524920	339
Formaldehyde 4% w/v buffered at pH 6.9	1 l jar filled at 800 ml	800 ml	526937	339

Description	Notes	Size	Code	Page
Formaldehyde 4% w/v buffered at pH 6.9		1 l	415694	339
Formaldehyde 4% w/v buffered at pH 6.9	5 l bucket filled at 2.5 l	2.5 l	526931	339
Formaldehyde 4% w/v buffered at pH 6.9		5 l	415691	339
Formaldehyde 4% w/v buffered at pH 6.9		5 l	415695	339
Formaldehyde 4% w/v buffered at pH 6.9		5 l	526936	339
Formaldehyde 4% w/v buffered at pH 6.9		10 l	415693	339
Formaldehyde 4% w/v buffered at pH 6.9		10 l	526933	339
Formaldehyde 4% w/v buffered at pH 6.9		20 l	415696	339
Formaldehyde 4% w/v buffered at pH 6.9		30 kg	415692	339
Formaldehyde 4% w/v buffered at pH 6.9		200 l	415697	339
Formaldehyde acetic	60 ml jars filled at 30 ml. Box of 500	30 ml	508871	340
Formaldehyde acetic	60 ml jars filled at 40 ml. Box of 500	40 ml	508872	340
Formaldehyde acetic	180 ml jars filled at 65 ml. Box of 100	65 ml	508874	340
Formaldehyde acetic	180 ml jars filled at 120 ml. Box of 160	120 ml	508873	340
Formaldehyde acetic		1 l	526231	340
Formaldehyde acetic		5 l	526273	340
Paraformaldehyde		1 kg	387507	511

Solvents for dehydration, de-waxing and diaphanization

Dehydration is obtained by bathing the tissue in an alcoholic series of increasing concentration.
Other solvents can be used instead of alcohols, as long as they mix with water, xylene and paraffins.
Solvent Plus, a mixture of Isoparaffins is widely and efficiently used for diaphanization and deparaffinization as a substitute of xylene.
Histolemon is a natural, non-toxic solvent for histology.
It is used as both a diaphanizing agent and a deparaffinizing agent, and it can replace xylene, toluene and all other solvents used for the same purposes. It is a product of natural origin, citrus-fruit scented, with the following characteristics: totally non-toxic, scarcely volatile, mixable with alcohols, compatible with all kinds of paraffins. It completely solves the problem of toxicity in the workplace.

Description	Notes	Size	Code	Page
Ethanol absolute anhydrous	Only for Italian market	1 l	414601	312
Ethanol absolute anhydrous	Only for Italian market	1 l	414607	312
Ethanol absolute anhydrous		1 l	4146012	312
Ethanol absolute anhydrous		1 l	4146072	312
Ethanol absolute anhydrous	Only for Italian market	2.5 l	414605	312
Ethanol absolute anhydrous	Only for Italian market	2.5 l	414608	312
Ethanol absolute anhydrous		2.5 l	4146052	312
Ethanol absolute anhydrous		2.5 l	4146082	312
Ethanol absolute anhydrous		5 l	414603	312
Ethanol absolute anhydrous		5 l	414606	312
Ethanol absolute anhydrous		10 l	414604	312
Ethanol 96°	Only for Italian market	1 l	414634	314
Ethanol 96°	Only for Italian market	1 l	414637	314
Ethanol 96°		1 l	4146342	314
Ethanol 96°		1 l	4146372	314
Ethanol 96°	Only for Italian market	2.5 l	414631	314
Ethanol 96°	Only for Italian market	2.5 l	414632	314
Ethanol 96°		2.5 l	4146312	314
Ethanol 96°		2.5 l	4146322	314
Ethanol 96°		5 l	414635	314
Ethanol 96°		10 l	414638	314
Ethanol absolute denaturated		1 l	528031	317
Ethanol absolute denaturated		5 l	528033	317
Ethanol absolute denaturated		5 l	528034	317
Ethanol absolute denaturated		10 l	528036	317

Description	Notes	Size	Code	Page
Ethanol 95° denaturated		1 l	528181	317
Ethanol 95° denaturated		5 l	528185	317
Ethanol 95° denaturated		10 l	528182	317
Histolemon		1 l	454911	367
Histolemon		2.5 l	454912	367
Histolemon		5 l	454915	367
Methanol		1 l	414814	458
Methanol		1 l	414819	458
Methanol		2.5 l	414815	458
Methanol		2.5 l	414816	458
Methanol		5 l	524102	458
Methanol		5 l	524103	458
Methanol		10 l	414818	458
Propan-1-ol		1 l	415104	573
Propan-1-ol		2.5 l	415102	573
Propan-1-ol		10 l	415108	573
Propan-2-ol		1 l	415154	576
Propan-2-ol		2.5 l	415156	576
Propan-2-ol		2.5 l	415158	576
Propan-2-ol		5 l	415173	576
Propan-2-ol		5 l	529174	576
Propan-2-ol		10 l	415153	576
Solvent Plus		2.5 l	446187	659
Solvent Plus		5 l	446181	659
Tetrahydrofuran		1 l	487308	694
Tetrahydrofuran		2.5 l	487303	694
Tetrahydrofuran		5 l	487305	694
Tetrahydrofuran		5 l	487307	694
Toluene		1 l	488551	709
Toluene		2.5 l	488555	709
Toluene		5 l	488552	709
Water		5 l	307582	729
Water		10 l	307586	729
Xylene, mix of isomers		1 l	492301	732
Xylene, mix of isomers		2.5 l	492306	732
Xylene, mix of isomers		5 l	492305	732

Embedding media

CARLO ERBA Reagents paraffins, in addition to possessing the typical properties required of an inclusion medium, offer the advantages of being highly purified and filtered, with a melting point between 56 and 58°C.
In order to optimize the infiltration times and guarantee better preparation of the sample, paraffin is available with and without DMSO additive.

Description	Notes	Size	Code	Page
Paraffin 56-58°C - Erbaplast (without DMSO)		4 x 2 kg	467958	510
Paraffin 56°C-58°C - Erbaplast (with DMSO)		4 x 2 kg	467938	510

Reagents and staining solutions

Ready-to-use staining solutions produce bright and well-contrasted colors.
Ideal for easy microscope readings, they allow valid results to be obtained with shorter staining times and greater certainty.
Solutions for Papanicolaou staining are especially suited for laboratory use in cytological diagnostics, thanks to their quality and reproducibility characteristics: bright and contrasted colors, high staining capacity, short staining time,long solution life, reproducibility of the colors, and perfect long-term preservation of the stained sections.

Panoptic staining achieved with Giemsa and May Grünwald reagents provides a greater body of information with a single staining. Indeed, blood smear staining allows the diagnosis of all pathologies related to malformations of red and white blood cells as well as distribution imbalances of the different kinds of white blood cells.

Description	Notes	Size	Code	Page
Alcian Blue 8GS 1%		250 ml	428551	135
Amman's lactophenol solution		100 ml	457531	146
Benedict's reagent		1 l	E425742	184
Carbolated Methylene Blue hydroalcoholic solution		100 ml	428991	234
Carbolated Toluidine Blue hydroalcoholic solution		100 ml	429291	234
Crystal violet oxalate for Gram-Hucker Kit		250 ml	491561	268
Decalcifying agent		1 l	441221	273
Differentiator for kit Gram-Hucker		250 ml	444131	292
Ehrlich's reagent		500 ml	E446302	307
Eosin Y 1% solution acqueous		1 l	446644	308
Eosin Y 0.5% solution alcoholic		1 l	446664	308
Esbach's reagent		1 l	446981	310
Folin-Ciocalteu's reagent		500 ml	E463562	336
Gentian violet carbolated solution	Dye for microscopy (bacteriology) according to GRAM	250 ml	E491651	346
Gentian violet carbolated solution	Dye for microscopy (bacteriology) according to NICOLLE	250 ml	E491661	346
Giemsa's reagent		100 ml	453614	347
Giemsa's reagent		6 x 100 ml	E453612	347
Giemsa's reagent		500 ml	453616	347
Giemsa's reagent		6 x 500 ml	E453613	347
Giemsa's reagent		2.5 l	453611	347
Giemsa's reagent		4 x 2.5 l	E453615	347
Gram - Hucker Kit		4 x 250 ml	454441	353
Haemalum solution according to Carazzi		250 ml	434351	355
Haemalum solution according to Carazzi		6 x 250 ml	E434352	355
Haemalum solution according to Mayer		1 l	446377	355
Haemalum solution according to Mayer		6 x 1 l	446372	355
Hematoxyline solution according to Mayer		100 ml	460511	356
Hematoxyline solution according to Mayer		6 x 100 ml	460512	356
Hematoxyline solution according to Mayer		1 l	460513	356
Hematoxyline solution according to Mayer		6 x 1 l	460515	356
Lactophenol blue solution		100 ml	428901	422
Lugol concentrated solution		1 l	458741	435
Lugol solution for Gram-Hucker kit		250 ml	458751	435
Lugol’s Reagent Iodine-Iodide Solution		250 ml	458762	435
Lugol’s Reagent Iodine-Iodide Solution		6 x 250 ml	E458761	435
Lugol’s Reagent Iodine-Iodide Solution		1 l	458763	435
Lugol’s Reagent Iodine-Iodide Solution		6 x 1 l	E458764	435
May Grünwald reagent		100 ml	460584	450
May Grünwald reagent		6 x 100 ml	E460582	450
May Grünwald reagent		500 ml	460586	450
May Grünwald reagent		6 x 500 ml	E460583	450
May Grünwald reagent		2.5 l	460581	450
May Grünwald reagent		4 x 2.5 l	E460585	450
Mayer's reagent		500 ml	460502	450
Methylene blue saturated solution		250 ml	E429031	464

Description	Notes	Size	Code	Page
Papanicolaou Haematoxylin solution according to Harris		500 ml	446462	509
Papanicolaou Haematoxylin solution according to Harris		6 x 500 ml	446464	509
Papanicolaou Haematoxylin solution according to Harris		1 l	446461	509
Papanicolaou Haematoxylin solution according to Harris		6 x 1 l	446465	509
Papanicolaou Haematoxylin solution according to Harris		2.5 l	446463	509
Papanicolaou Haematoxylin solution according to Harris		4 x 2.5 l	446466	509
Papanicolaou solution EA 50		500 ml	467782	509
Papanicolaou solution EA 50		6 x 500 ml	E467784	509
Papanicolaou solution EA 50		1 l	467781	509
Papanicolaou solution EA 50		6 x 1 l	E467785	509
Papanicolaou solution EA 50		2.5 l	467783	509
Papanicolaou solution EA 50		4 x 2.5 l	E467786	509
Papanicolaou solution OG 6		500 ml	467792	510
Papanicolaou solution OG 6		6 x 500 ml	E467794	510
Papanicolaou solution OG 6		1 l	467791	510
Papanicolaou solution OG 6		6 x 1 l	E467795	510
Papanicolaou solution OG 6		2.5 l	467793	510
Papanicolaou solution OG 6		4 x 2.5 l	E467796	510
Safranine T hydroalcoholic solution for Gram-Hucker Kit		250 ml	477241	592
Schiff's reagent for PAS coloration		500 ml	477591	595
Schiff's reagent for PAS coloration		6 x 500 ml	477592	595
Tauber reagent		500 ml	490422	689
Turk's reagent		500 ml	E490451	723
Wright's stain solution in methanol		100 ml	492011	731
Ziehl-Neelsen's reagent		250 ml	493101	737
Ziehl-Neelsen's reagent		1 l	493102	737

Dyes

To aid identification of the finest details of cellular structures, very pure products must be used. For this purpose the CARLO ERBA Reagents dyes in powder, in addition to possessing such characteristics, are also classified and certified through the combined use of TLC and UV-Visible spectrophotometry.

Description	Notes	Size	Code	Page
Acridine orange		25 g	423461	134
Alcian blue 8GX		25 g	428561	136
Alkali blue 6B		25 g	428532	137
Aniline blue soluble in water		25 g	428582	167
Azure II		5 g	424721	176
Azure II eosin		5 g	424731	177
Bismarck brown R		25 g	431252	190
Biuret 97%		25 g	428432	193
Brillant cresyl blue		10 g	428811	196
Brillant cresyl blue		25 g	428812	196
Brilliant green		25 g	491152	196
Casein		50 g	435963	235
Congo red		25 g	476762	259
Congo red		100 g	476764	259

Description	Notes	Size	Code	Page
Coomassie brilliant blue R 250		25 g	428642	259
Eosin B		25 g	446602	308
Eosin Y		25 g	446632	308
Eosin Y		100 g	446634	308
Erythrosin extra B		100 g	446971	310
Fast green FCF		25 g	491391	331
Fuchsin acid		25 g	452812	342
Fuchsin acid		100 g	452814	342
Fuchsin basic		25 g	452842	343
Fuchsin basic		100 g	452844	343
Gentian violet		50 g	388701	346
Gold(III) chloride trihydrate		1 g	467007	353
Hematoxylin		25 g	446472	356
Hematoxylin		100 g	446473	356
Hematoxylin		1 kg	446475	356
Light green		10 g	491371	430
Light green		25 g	491372	430
Malachite green		25 g	491303	444
Malachite green		100 g	491304	444
Methyl blue		25 g	428932	463
Methyl green		10 g	491351	465
Methyl green		25 g	491352	465
Neutral red		10 g	476951	485
Nigrosine		25 g	464852	489
Nigrosine		50 g	464853	489
Nuclear fast red		10 g	477011	499
Nuclear fast red		25 g	477012	499
Orange G		25 g	423432	502
Orange II		10 g	423341	502
Orcein		5 g	466858	502
Orcein		25 g	466859	502
Phloxin B		10 g	452051	528
Phloxin B		25 g	452052	528
Ponceau red BS		10 g	476941	535
Ponceau red S		5 g	476981	535
Ponceau red S		25 g	476982	535
Rosolic acid		25 g	409702	590
Safranine T		25 g	477232	592
Sudan black B		25 g	464241	671
Sudan III		25 g	485902	671
Sudan yellow		10 g	453581	672
Tartrazine		50 g	486903	689
Tetrazolium blue		1 g	429187	696
Toluidine blue		25 g	429282	711
Victoria blue		10 g	429381	727
Victoria blue		25 g	429382	727

Mounting media

Mounting media of natural or synthetic origin in various solvents, depending on the specific needs of the users, with all the typical characteristics required of common mounting media.

Description	Notes	Size	Code	Page
Acquovitrex-Erba		6 x 100 ml	412194	170
Canada balsam		100 g	321553	233
Canada balsam		250 g	321554	233
Eukitt		100 ml	554194	330
Eukitt		250 ml	554193	330
Eukitt		500 ml	554192	330
Gelatine		500 g	453226	346
Oil of cedar wood		100 ml	466753	501
Oil of cedar wood		1 l	466757	501

Immersion media

An especially useful range of products for optical microscopy.

Description	Notes	Size	Code	Page
Immersion oil		100 ml	466782	392
Immersion oil		1 l	466783	392

ORGANIC CHEMISTRY

Anhydrous solvents

In analytical and synthetic chemistry many operations must take place in an anhydrous environment in order to prevent alterations, the occurrence of side reactions and a reduced yield. For this purpose, high-quality solvents with minimum water content must be used. The CARLO ERBA Reagents anhydrous solvents eliminate the time-consuming need for anhydrification of the solvents while ensuring results that are certain and reliable over time. These solvents are the result of specific production processes, optimized and controlled to obtain the highest degree of purity and minimum water content. The packaging materials used are ideal for preserving product quality, and the products are available in various sizes, in septum bottles or glass bottles, so as to meet every type of usage need.

Description	Notes	Size	Code	Page
Acetone		200 ml	P0051010	126
Acetone		1 l	P0051016	126
Acetonitrile		200 ml	P0061010	131
Acetonitrile	Water content < 50 ppm	200 ml	P00610S10	131
Acetonitrile		1 l	P0061016	131
Acetonitrile	Water content < 50 ppm	1 l	P00610S16	131
Acetonitrile		2.5 l	P0061021	131
Butanol-1		200 ml	P0171010	212
Butanol-1		1 l	P0171016	212
tert-Butanol		1 l	P0191016	213
n-Butyl acetate		1 l	P0011016	215
n-Butyl acetate		2.5 l	P0011021	215
tert-Butylmethylether		1 l	P0921016	217
Chloroform		200 ml	P02410A10	247
Chloroform		1 l	P02410A16	247
Chloroform		2.5 l	P02410A21	247
Chloroform		200 ml	P02410E10	247
Chloroform		1 l	P02410E16	247
Chloroform		2.5 l	P02410E21	247
Cyclohexane		200 ml	P0251010	270
Cyclohexane		1 l	P0251016	270
1,2-Dichloroethane		200 ml	P0281010	281
1,2-Dichloroethane		1 l	P0281016	281
1,2-Dichloroethane		2.5 l	P0281021	281
Dichloromethane		200 ml	P02910A10	283
Dichloromethane		1 l	P02910A16	283
Dichloromethane		2.5 l	P02910A21	283
Dichloromethane		200 ml	P02910E10	283
Dichloromethane		1 l	P02910E16	283
Dichloromethane		2.5 l	P02910E21	283
Diethyl ether		200 ml	P0441010	290
Diethyl ether		1 l	P0441008	290
Diethyl ether		1 l	P0441016	290
Diethyl ether		2.5 l	P0441021	290
Diisopropylether		1 l	P0431016	292
n,n-Dimethylformamide		200 ml	P0341010	296
n,n-Dimethylformamide		1 l	P0341016	296
n,n-Dimethylformamide		2.5 l	P0341021	296
1,4-Dioxane		200 ml	P0361010	301
1,4-Dioxane		1 l	P0361016	301
1,4-Dioxane		2.5 l	P0361021	301

Description	Notes	Size	Code	Page
Ethanol absolute anhydrous		200 ml	P013A1010	311
Ethanol absolute anhydrous		1 l	P013A1016	311
Ethanol absolute anhydrous		2.5 l	P013A1021	311
Ethyl acetate		200 ml	P0021010	321
Ethyl acetate		1 l	P0021016	321
Ethyl acetate		2.5 l	P0021021	321
Ethyl methyl ketone		1 l	P0201016	329
Formamide		200 ml	P6151010	340
n-Heptane 99%		1 l	P0501016	357
n-Heptane 99%		2.5 l	P0501021	357
n-Hexane		1 l	P0521016	363
Isobutanol		1 l	P0531016	409
Isopentane		1 l	P0651016	412
Methanol		200 ml	P0931010	457
Methanol		1 l	414981	457
Methanol		1 l	P0931016	457
Methanol		2.5 l	P0931021	457
Methylcyclohexane		1 l	P0581016	464
Methyl isobutyl ketone		1 l	P0601016	466
n-Methyl-2-pyrrolidone		200 ml	P0871010	468
Propan-1-ol		1 l	P0941016	573
Propan-1-ol		2.5 l	P0941021	573
Propan-1-ol		25 l	P0941049	573
Propan-2-ol		200 ml	P0951010	574
Propan-2-ol		1 l	P0951016	574
Pyridine		200 ml	P0671010	580
Pyridine	Water content < 100 ppm	200 ml	P06710S10	580
Pyridine		1 l	P0671016	580
Pyridine		2.5 l	P0671021	580
Sulfolane		1 l	P932SP16	674
Tetrahydrofuran		200 ml	P0701010	694
Tetrahydrofuran		1 l	P0701016	694
Tetrahydrofuran		2.5 l	P0701021	694
Toluene		200 ml	P0711010	708
Toluene		1 l	P0711016	708
Toluene		2.5 l	P0711021	708

Anhydrous solvents, with molecular sieves

To improve prevention of contamination from external humidity, these solvents are supplied with molecular sieves.

Description	Notes	Size	Code	Page
Acetonitrile	On molecular sieves 3A	200 ml	P00610T10	131
Chloroform	On molecular sieves	2.5 l	P02410AT21	247
Dichloromethane	On molecular sieves 4A	200 ml	P02910AT10	283
Dichloromethane	On molecular sieves 4A	1 l	P02910AT16	283
Diethyl ether	On molecular sieves 4A, Water content < 20ppm	200 ml	P04410T10	290
Diethyl ether	On molecular sieves 4A, Water content < 20ppm	1 l	P04410T16	290
n,n-Dimethylformamide	On molecular sieves 4A.	200 ml	P03410T10	296
n,n-Dimethylformamide	On molecular sieves 4A	1 l	P03410T16	296

Description	Notes	Size	Code	Page
Ethyl acetate	On molecular sieves 4A, Water content < 20ppm	2.5 l	P00210T21	321
n-Pentane	On molecular sieves	1 l	P0641016	513
Tetrahydrofuran	On molecular sieves 4A	200 ml	P07010T10	694
Tetrahydrofuran	On molecular sieves 4A	1 l	P07010T16	694
Toluene	On molecular sieves 4A	200 ml	P07110T10	708

NMR solvents

The choice of deuterated solvents is very important in NMR spectroscopy.
These solvents contribute to shielding the substance they dissolve, as well as making a significant contribution to expanding the electric reaction field generated by the solvent as a result of the polarization produced by the molecules in the solute.
To meet the varied needs of this sophisticated analytical technique, CARLO ERBA Reagents offers a wide range of deuterated solvents, characterized by high production standards resulting from the use of spectroscopically pure raw materials and accurate analyses and controls in line with our long tradition of quality.
Our solvents are available in various degrees of isotopic purity and a vast assortment of packages, with an attention to detail that complements the overall reliability and safety guaranteed by the products.

Description	Notes	Size	Code	Page
Acetic acid-d4		5 ml	P5013A	125
Acetic acid-d4		10 x 0.75 ml	P5039	125
Acetone-d6		10 x 0.75 ml	P5049	129
Acetone-d6		10 ml	P5044A	129
Acetone-d6		5 x 10 ml	P5044S	129
Acetone-d6		25 ml	P5045	129
Acetone-d6		100 ml	P5046	129
Acetone-d6		10 x 0.6 ml	P5060	129
Acetonitrile-d3		2 x 0.6 ml	P5070	132
Acetonitrile-d3		10 x 0.75 ml	P5079	132
Acetonitrile-d3		6 ml	P5073A	132
Benzene-d6		10 x 0.75 ml	P5089	186
Benzene-d6		25 ml	P5085	186
Benzene-d6		100 ml	P5086	186
Benzene-d6		10 x 0.6 ml	P5100	186
Chloroform-d		10 x 0.75 ml	P5119	248
Chloroform-d		25 ml	P5115	248
Chloroform-d		100 ml	P5116	248
Chloroform-d		500 ml	P5117	248
Chloroform-d		1 l	P5118	248
Chloroform-d		100 ml	P5325	249
Chloroform-d		10 x 0.6 ml	P5130	249
Chloroform-d		10 x 0.75 ml	P5139	249
Chloroform-d		25 ml	P5135	249
Chloroform-d		100 ml	P5505	249
Chloroform-d + 0,03% TMS		100 ml	P5006	249
Cyclohexane-d12		2 x 0.5 ml	P5151A	271
Deuterium oxide-d		10 x 0.6 ml	P5160	275
Deuterium oxide-d		10 x 0.75 ml	P5169	275
Deuterium oxide-d		5 x 10 ml	P5164	275
Deuterium oxide-d		25 ml	P5165	275
Deuterium oxide-d		25 ml	P5165S	275
Deuterium oxide-d		100 ml	P5166	275
Deuterium oxide-d		1 l	P5168	275
Deuterium oxide-d		10 x 0.75 ml	P5179	275

Description	Notes	Size	Code	Page
Deuterium oxide-d		25 ml	P5175	275
Deuterium oxide-d + 0.01% DMSO		10 x 0.6 ml	P5170D	276
Deuterium oxide-d + 0.01% DMSO		2 ml	P5173D	276
Deuterium oxide-d + 0.5% TSP d4		10 x 0.5 ml	P5161T	276
Deuterium oxide-d + 0.03% TSP d4		10 x 0.6 ml	P5160T	276
1,2-Dichlorobenzene-d4		5 ml	P5533A	280
Dichloromethane-d2		10 x 0.6 ml	P5330	286
Dichloromethane-d2		10 x 0.75 ml	P5339	286
Dichloromethane-d2		10 ml	P5334A	286
Dichloromethane-d2		25 ml	P5335	286
n,n-Dimethylformamide-d7		2 x 0.75 ml	P5189A	297
n,n-Dimethylformamide-d7		5 ml	P5183A	297
Dimethylsulphoxide-d6		10 x 0.6 ml	P5200	299
Dimethylsulphoxide-d6		10 x 0.75 ml	P5209	299
Dimethylsulphoxide-d6		10 ml	P5204A	299
Dimethylsulphoxide-d6		5 x 10 ml	P5204S	299
Dimethylsulphoxide-d6		25 ml	P5205	299
Dimethylsulphoxide-d6		100 ml	P5206	299
Dimethylsulphoxide-d6		10 x 0.6 ml	P5220	299
Dimethylsulphoxide-d6		10 x 0.75 ml	P5229	299
Dimethylsulphoxide-d6 + 0.03% TMS		10 x 0.6 ml	P5602	300
Dimethylsulphoxide-d6 + 0.03% TMS		25 ml	P5605	300
Dimethylsulphoxide-d6 + 0.03% TMS		100 ml	P5606	300
Dimethylsulphoxide-d6 + 0.03% TMS		10 x 0.75 ml	P5541	300
Dimethylsulphoxide-d6 + 0.03% TMS		25 ml	P5545	300
Ethanol-d6 anhydrous		2 x 1 ml	P5262A	319
Formic acid-d		5 ml	P5733	342
Hexane-d14		1 ml	P5472A	365
Hydrochloric acid-d 1 mol/l		25 ml	P5695	383
Hydrochloric acid-d 20%		25 ml	P5685	383
Methanol-d4		10 x 0.6 ml	P5280	460
Methanol-d4		10 x 0.75 ml	P5289	460
Methanol-d4		5 ml	P5283A	460
Methanol-d4		5 x 10 ml	P5284	460
Methanol-d4		5 x 10 ml	P5284S	460
Methanol-d4		25 ml	P5285	460
Methanol-d4		10 x 0.6 ml	P5310	460
Methanol-d4		10 x 0.75 ml	P5319	460
Methanol-d4 + 0.03% TMS		10 x 0.6 ml	P5140	460
Methanol-d3		10 x 0.75 ml	P5309	460
Methanol-d1		25 ml	P5275	460
Molecular sieves 3 A deuterated		5 g	P557X	475
Orthophosphoric acid-d3 85% in D2O		25 ml	P5055	504
Pyridine-d5		2 x 0.75 ml	P5369A	581
Pyridine-d5		10 ml	P5364A	581
Pyridine-d5		2 x 0.6 ml	P5370	581
Sodium hydroxide-d 1 30%		25 ml	P5675	637
Sodium hydroxide-d 1 mol/l		25 ml	P5665	637
Tetrachloroethane-d2		25 ml	P5435	692
Tetrahydrofuran-d8		2 x 0.6 ml	P5380	695
Tetrahydrofuran-d8		25 ml	P5385	695

Description	Notes	Size	Code	Page
Tetramethylsilane		25 ml	P5455S	696
Toluene-d8		2 x 0.75 ml	P5399A	710
Toluene-d8		5 ml	P5393A	710
Toluene-d8		25 ml	P5395	710
Trifluoroacetic acid-d		2 x 0.75 ml	P5419A	716
Trifluoroacetic acid-d		5 ml	P5413A	716
Trifluoroethanol-d2		2 x 0.75 ml	P5449A	717

Solvents for Peptides Synthesis

CARLO ERBA Reagents propose a specific range of most common used of solvents for peptide and/or DNA synthesis. These solvents are tested specifically to guarantee the absence of amines according to described tests.

Description	Notes	Size	Code	Page
Acetonitrile		200 ml	P0063510	131
Acetonitrile		1 l	P0063516	131
Acetonitrile		2.5 l	P0063521	131
n,n-Dimethylformamide		1 l	P0343516	296
n,n-Dimethylformamide		2.5 l	P0343521	296
n,n-Dimethylformamide		5 l	P0343522	296
n,n-Dimethylformamide		10 l	P0343541	296
n,n-Dimethylformamide		25 l	P0343549	296
n,n-Dimethylformamide		25 l	P0343550	296
n,n-Dimethylformamide		200 l	P0343567	296
n-Methyl-2-pyrrolidone		1 l	P0873516	468
n-Methyl-2-pyrrolidone		2.5 l	P0873521	468
n-Methyl-2-pyrrolidone		10 l	P0873541	468
n-Methyl-2-pyrrolidone		25 l	P0873549	468
n-Methyl-2-pyrrolidone		200 l	P0873566	468
Piperidine		1 l	P0663516	534
Piperidine		2.5 l	P0663521	534
Pyridine		1 l	P0673516	580
Pyridine		2.5 l	P0673521	580
Trifluoroacetic acid		100 ml	P0082103	715
Trifluoroacetic acid		2.5 l	P0082147	715

GREEN CHEMISTRY

Growing awareness of the environmental consequences of chemical products and the processes by which they are produced has led to the development of the concept of “Sustainable (Green) Chemistry” in the United States during the early nineties. The definition given by its founder, Paul T. Anastas, is the following:
“Green Chemistry is the utilization of a set of principles that reduces or eliminates the use and generation of hazardous substances in the design, manufacture and application of chemical products.”
It is based on 12 principles, which take into consideration the environmental, economic and safety aspects of chemistry.

Green solvents

In the interest of Green Chemistry, CARLO ERBA Reagents offers the following Green Solvents:

Description	Notes	Size	Code	Page
Cyclopentyl methyl ether		1 l	P8010216	272
Cyclopentyl methyl ether		5 l	P8010229	272
n,n'-Dimethylpropylene uree		500 ml	P8020218	298
n,n'-Dimethylpropylene uree		1 l	P8020216	298
n,n'-Dimethylpropylene uree		5 l	P8020229	298
n,n'-Dimethylpropylene uree		25 l	P8020248	298
1,3-Dioxolane		1 l	P8030216	302
1,3-Dioxolane		5 l	P8030222	302
2-Methyltetrahydrofuran		1 l	P9960216	470
2-Methyltetrahydrofuran		2.5 l	P9960221	470
2-Methyltetrahydrofuran		5 l	P9960229	470
2-Methyltetrahydrofuran		25 l	P9960248	470
2-Methyltetrahydrofuran		200 l	P9960268	470
4-Methyltetrahydropyran		500 ml	P9990218	471
4-Methyltetrahydropyran		1 l	P9990216	471
4-Methyltetrahydropyran		2.5 l	P9990221	471
1,3-Propanediol		1 l	P8040216	577
1,3-Propanediol		5 l	P8040222	577
1,3-Propanediol		190 l	P8040268	577

KARL FISCHER TITRATION

ERBAqua® is the new CARLO ERBA Reagents brand, for its complete range of pyridine-free reagents for the volumetric and coulometric Karl Fischer determination of water.
The main features of this range are: more safety due to py-free and one component reagents non-hazardous, fast and stable endpoints and long term titre stability.

ERBAqua® One component volumetric reagents

In one-component volumetric Karl Fischer Titration, the titrant contains all the reagents required by the reaction: iodine, sulfur dioxide, base and an alcohol.
Available in two different titer strengths, 5 mg/ml and 2 mg/ml, they are suitable for routine analysis, and thanks to their methanol-free formulation, they can be used also if the sample contains aldehydes and ketones.
We also provide specific working media to dissolve the sample:
570031, for sample containing oils and fats
570041, for sample containing aldehydes and ketones. It is especially suitable for high molecular weight products and non polar constituents mixture
570241 and 570251 are the one component volumetric Karl Fischer reagents, non-hazardous.

Description	Notes	Size	Code	Page
Karl Fischer reagent 1 component 5 mg H2O/ml		1 l	570011	416
Karl Fischer reagent 1 component 5 mg H2O/ml	New formulation. Not regulated for transport.	1 l	570241	416
Karl Fischer reagent 1 component 2 mg H2O/ml		1 l	570021	416
Karl Fischer reagent 1 component 2 mg H2O/ml	New formulation. Not regulated for transport.	1 l	570251	416
Karl Fischer solvent for aldehydes and ketones one component		1 l	570041	417
Karl Fischer solvent for oils one component		1 l	570031	417

ERBAqua® Two components volumetric reagents

For users who do frequent Karl Fischer analysis and need a higher degree of accuracy than one-component volumetric titration can provide, we recommend the two components range.
They give more accuracy in the results and longer shelf life because the reagents required by the Karl Fischer reaction are separated between the titrant (iodine) and the working medium (sulfur dioxide and base), but this implies that they must be coupled used.
For general purposes, we offer two different titer strengths, 5 mg/ml and 2 mg/ml.
In order to avoid side reactions in presence of aldehydes and ketones in the sample, we recommend to perform the analysis using the dedicated formulations: 570081 as titrant to be used with 570091 as working medium.
For oils or other non-polar compounds, 570101 is the suitable working medium.
In case of need for an extra buffering capacity of 5 mmole of acid/ml, 570121 is the suitable working medium.

Description	Notes	Size	Code	Page
Karl Fischer buffer solution		500 ml	570111	415
Karl Fischer titrant 2 component 5 mg H2O/ml		1 l	570081	417
Karl Fischer solvent 2 component		1 l	570071	417
Karl Fischer solvent 2 component for aldehydes and ketones - Methanol free		1 l	570091	417
Karl Fischer solvent for oils 2 component		1 l	570101	418
Karl Fischer titrant 2 component 5 mg H2O/ml - non hygroscopic		1 l	570051	418
Karl Fischer titrant 2 component 2 mg H2O/ml - non hygroscopic		1 l	570061	418

ERBAqua® Coulometric reagents

Coulometric Karl Fischer method is highly effective and suitable when water content in the sample is less than 0.1% and high accurancy on the result is needed.
Designed for use with all titrators and titration cell types, a wide range is available in order to allow the necessary reagents both when a diaphragm or a diaphragmless cell is used.
For units with a diaphragm, two reagent solutions are required: an anolyte and a catolyte.

Description	Notes	Size	Code	Page
Karl Fischer fritless reagent		500 ml	570131	415
Karl Fischer anolyte solution - CFC free		500 ml	570141	415

Description	Notes	Size	Code	Page
Karl Fischer anolyte solution for ketones and aldehydes - Methanol free		500 ml	570161	415
Karl Fischer anolyte solution for oils		500 ml	570171	415
Karl Fischer anolyte solution, oven		500 ml	570151	416
Karl Fischer anolyte solution - pyridine free		500 ml	570121	416
Karl Fischer catholyte solution - Pyridine free		125 ml	570181	416
Karl Fischer catholyte solution		125 ml	570191	416

ERBAqua® Water standards

Standardization of a Karl Fischer reagent is necessary in order to determine its water equivalency.
ERBaqua range includes both volumetric and gravimetric reference materials suitable for this kind of application.

Description	Notes	Size	Code	Page
Karl Fischer water standard 0.10 mg/g		10 x 5 ml	570201	418
Karl Fischer water standard 1.0 mg/g		10 x 5 ml	570211	418
Karl Fischer water standard 10.0 mg/g		10 x 5 ml	570221	418
Karl Fischer water standard 5.0 mg/ml		10 x 5 ml	570231	419

CONDUCTIMETRY

The determination of the electrical conductivity or conductance is a key physical-chemical parameter for water analysis.

Standard Solutions

CARLO ERBA Reagents offers the following reference solutions, which are certified with NIST traceability:

Description	Notes	Size	Code	Page
Standard solution 1.30 µS/cm		250 ml	575231	660
Standard solution 5 µS/cm		250 ml	575001	661
Standard solution 10 µS/cm		250 ml	575011	661
Standard solution 20 µS/cm		500 ml	575021	661
Standard solution 50 µS/cm		500 ml	575031	661
Standard solution 84 µS/cm		500 ml	575041	662
Standard solution 100 µS/cm		500 ml	575051	662
Standard solution 147 µS/cm		500 ml	575061	662
Standard solution 200 µS/cm		500 ml	575071	662
Standard solution 500 µS/cm		500 ml	575081	662
Standard solution 1000 µS/cm		500 ml	575091	662
Standard solution 1413 µS/cm		500 ml	575101	663
Standard solution 5000 µS/cm		500 ml	575111	663
Standard solution 10000 µS/cm		500 ml	575121	663
Standard solution 12880 µS/cm		500 ml	575131	663
Standard solution 20000 µS/cm		500 ml	575141	664
Standard solution 50000 µS/cm		500 ml	575151	664
Standard solution 100000 µS/cm		500 ml	575161	664
Standard solution 150000 µS/cm		500 ml	575171	664
Standard solution 200000 µS/cm		500 ml	575181	665
Standard solution 300000 µS/cm		500 ml	575191	665
Standard solution 350000 µS/cm		500 ml	575201	665
Standard solution 450000 µS/cm		500 ml	575211	665
Standard solution 500000 µS/cm		500 ml	575221	666

UV SPECTROSCOPY

In molecular structure research and equilibrium studies, as well as studies on kinetics and steric effects, it is important to use solvents with high UV transmittance which contain no interfering substances absorbent in the IR spectral band and are suited for fluorescence analysis.

SPECTROSOL® Solvents for optical spectroscopy

CARLO ERBA Reagents offers a line of special solvents for spectroscopy. These are high-purity products obtained through specific production processes, controlled and packaged in order to adequately meet the needs of modern ultraviolet, infrared and fluorescence analytical techniques.

Description	Notes	Size	Code	Page
Acetone		1 l	401034	126
Acetone		2.5 l	401032	126
Acetonitrile		1 l	401216	131
Acetonitrile		2.5 l	401212	131
tert-Butylmethylether		1 l	432001	217
tert-Butylmethylether		2.5 l	432002	217
Chloroform		1 l	438591	246
Chloroform		2.5 l	438592	246
Chloroform		1 l	438664	247
Chloroform		2.5 l	438662	247
Cyclohexane		1 l	436967	270
Cyclohexane		2.5 l	436963	270
1,2-Dichloroethane		1 l	P0282716	280
Dichloromethane		1 l	442371	283
Dichloromethane		1 l	463025	283
Diethyl ether		1 l	447593	289
n,n-Dimethylformamide		1 l	444957	296
n,n-Dimethylformamide		2.5 l	444956	296
Dimethylsulphoxide		1 l	445112	298
Dimethylsulphoxide		2.5 l	445111	298
Ethanol absolute anhydrous	Only for Italian market	1 l	414677	311
Ethanol absolute anhydrous		1 l	4146772	311
Ethanol 96°	Only for Italian market	1 l	414667	314
Ethanol 96°		1 l	4146672	314
Ethyl acetate		1 l	448271	321
Ethyl acetate		2.5 l	448272	321
n-Heptane 99%		1 l	446824	357
n-Hexane 99%		1 l	447051	362
n-Hexane 99%		2.5 l	447052	362
n-Hexane		1 l	446934	363
n-Hexane		2.5 l	446932	363
Isooctane		1 l	456754	411
Isooctane		2.5 l	456753	411
Methanol		1 l	414902	456
Methanol		2.5 l	414903	456
Paraffin oil		100 ml	466792	510
n-Pentane 99%		1 l	468142	512
n-Pentane 99%		2.5 l	468141	512
Potassium bromide		100 g	470701	539
Propan-2-ol		1 l	415213	574
Tetrachloroethylene		1 l	P0682716	692
Tetrachloroethylene		2.5 l	P0682721	692
Tetrahydrofuran		1 l	487345	694

Description	Notes	Size	Code	Page
Tetrahydrofuran		2.5 l	487346	694
Toluene		1 l	488601	708
Toluene		2.5 l	488602	708
Trifluoroacetic acid		1 l	P0082746	715
Trifluoroacetic acid		2.5 l	P0082747	715

INDICATORS

Indicators represent a practical and important tool for monitoring the progress of a reaction of an aqueous solution, operations which are often essential for obtaining correct analytical data.

Indicators, for UV-fluorescence, Redox, Precipitation and Complexometry

• UV Fluorescence indicators
The use of chromatic indicators may not be equally effective with turbid or colored solutions, or when the change in concentration is not fast enough. In these cases, instrumental methods or fluorescence indicators may be adopted to identify the end point.
• Oxidation-reduction indicators
These indicators are substances that vary in color depending on whether they are in oxidized or reduced form. Their behavior is very similar to that of the indicators used in acid-base titration; however, while the latter are sensitive to changes in the solution's pH, oxidation-reduction indicators are sensitive to changes in the system's potential. The color changes are usually very clear and well-defined.
• Precipitation indicators
Precipitation titration methods have very limited applications compared to other types of volumetric analysis, but the few that are still employed are very useful in practical terms.
The titration process is based on the formation of an insoluble compound between the titrating agent and the substance being titrated, which gradually results from the reaction that occurs during titration.
Precipitation indicators allow visual identification of the end point of titration thanks to a change in color, which corresponds to the variation of a key characteristic, such as a change in the precipitate's electric charge (isoelectric point).
• Complexometry indicators
These are organic colorings, mainly of the azo group, which form stable complexes with metals and are characterized by different colors depending on whether they are in free form or complex form in the solution.

Description	Notes	Size	Code	Page
Alizarin		25 g	415892	136
Alizarin red		25 g	416002	136
Alizarin yellow R		10 g	453451	137
Alizarin yellow R		25 g	453452	137
Anthrone		25 g	423282	168
Arsenazo III		1 g	424281	171
Arsenazo III		25 g	424282	171
Azomethine H		10 g	424691	176
Azomethine H		25 g	424692	176
Bathophenanthroline sulfonate sodium salt		0.5 g	425601	184
Bromocresol Green		1 g	491207	199
Bromocresol Green		25 g	491208	199
Bromocresol purple		5 g	470038	200
Bromocresol purple		25 g	470039	200
Bromophenol blue		5 g	428658	201
Bromophenol blue		25 g	428659	201
Bromophenol blue		50 g	428653	201
Bromophenol blue		500 g	428655	201
Bromophenol blue indicator		1 l	PS0269/15	202
Bromophenol blue TAC indicator		1 l	PS0189/15	202
Bromophenol blue TAC indicator		1 l	PS0189/16	202
Bromothymol blue		5 g	428708	202
Bromothymol blue		25 g	428702	202
Bromothymol blue		50 g	428703	202
Calcon		25 g	434171	232
Calconcarbonic acid		5 g	403308	232
Calmagite		5 g	434181	232
Calmagite		25 g	434182	232
Chloramine T sodium salt		25 g	437555	242
Chloranil		50 g	437601	242
Chromazurol S		1 g	440591	250
Chromotropic acid disodium salt		25 g	404872	254
Clayton's yellow		5 g	453518	256

Description	Notes	Size	Code	Page
Clayton's yellow		25 g	453519	256
o-Cresol red		5 g	476778	266
m-Cresol purple		1 g	470067	267
m-Cresol purple		25 g	470068	267
Crystal violet		25 g	491502	268
Diacetyldioxime		50 g	441553	277
Diacetyldioxime sodium salt		50 g	441623	277
Diacetyldioxime sodium salt		250 g	441625	277
2',7'-Dichlorofluorescein		10 g	442541	281
2,6-Dichlorophenolindophenol sodium salt		5 g	442508	286
2,6-Dichlorophenolindophenol sodium salt		25 g	442509	286
2,6-Dichloroquinone-4-chlorimide		5 g	442458	286
Diethylenetriaminepentacetic acid		250 g	405192	289
Digitonin		25 g	444208	292
Dimedone		25 g	444252	293
p-Dimethylaminobenzaldehyde		100 g	444604	294
p-Dimethylaminobenzaldehyde		250 g	444603	294
p-Dimethylaminobenzylidenerhodanine		5 g	444678	295
Dimidium bromide		1 g	445232	300
Dimidium bromide		5 g	445231	300
Dimidium bromide		25 g	445233	300
4-Diphenylaminesulfonic acid sodium salt		25 g	443672	303
sym-Diphenylcarbazide		25 g	443752	303
sym-Diphenylcarbazide		100 g	443754	303
sym-Diphenylcarbazone		10 g	443801	303
2,5-Diphenyloxazole		100 g	443972	303
Diphenylthiocarbazone		50 g	444053	304
2,2'-Dipyridyl		25 g	445959	304
Dodecylbenzenesulphonic acid sodium salt		25 g	405352	305
Eriochrome black T		10 g	464221	309
Eriochrome black T		25 g	464222	309
Eriochromocyanine R		10 g	446811	310
Eriochromocyanine R		25 g	446812	310
Ferroin 0.025 mol/l solution		100 ml	526751	332
Fluorescein		25 g	452086	335
Fluorescein		50 g	452083	335
Fluorescein		500 g	452087	335
Fluorescein sodium salt		25 g	452112	335
Fluorescein sodium salt		50 g	452113	335
Fluorescein sodium salt		1 kg	452117	335
Fluorescein sodium salt		25 g	345356	335
Fluorescein sodium salt		1 kg	345357	335
Fluorexon		1 g	452141	335
Fluorexon		25 g	452142	335
Gentian violet		25 g	388703	346
Glyoxal-bis-(2-hydroxyanil)		10 g	454131	352
Idrimeter Erba Solution A		500 ml	E455256	391
Idrimeter Erba Solution A		1 l	E455257	391
Idrimeter Erba Solution B		500 ml	E455266	391
Idrimeter Erba Solution B		1 l	E455267	391
Idrimeter Erba Indicator C		10 g	E455271	391

Description	Notes	Size	Code	Page
Idrimeter Erba Indicator C		100 g	E455274	391
Indicator for ammoniacal nitrogen solution		250 ml	E455651	392
Indicator for iodometry		25 g	455622	392
Indicator for iodometry		250 g	455621	392
Indigo carmine dried		25 g	434932	394
Inulin		25 g	455902	396
Litmus		100 g	489054	434
Luminol		25 g	458772	436
Metanil yellow		25 g	453542	454
3-Methyl-2-benzothiazolinone hydrazone hydrochloride		5 g	462238	463
Methylene blue		100 g	428984	464
Methylene blue		25 g	429982	464
Methylene blue		500 g	429981	464
Methyl orange		25 g	423504	467
Methyl orange		50 g	423503	467
Methyl orange		250 g	423505	467
Methyl orange		500 g	423501	467
Methyl red		25 g	476882	469
Methyl red		50 g	476883	469
Methyl red		250 g	476881	469
Methylthymol blue sodium salt		1 g	429021	471
Methylthymol blue sodium salt		25 g	429022	471
Methyl yellow		25 g	444552	471
Morin		5 g	463508	477
Morin		25 g	463509	477
Murexide		5 g	463608	480
Murexide		25 g	463609	480
Neocuproine		1 g	444871	483
Neocuproine		25 g	444872	483
Neocuproine hydrochloride		1 g	444731	483
Neocuproine hydrochloride		25 g	444732	483
o-Phenantroline-Iron (II) sulphate solution in sulphuric acid		100 ml	E450043	523
Phenol red		5 g	476838	525
Phenolphthalein		100 g	451154	525
Phenolphthalein		500 g	451156	525
Pyrocatechol violet		25 g	491872	582
Quinaldine red		25 g	476688	584
Red for oils O		25 g	476961	586
Starch paste solution 1%		250 ml	E477301	666
Starch paste solution 1%		1 l	E477302	666
Sudan III hydroalcoholic saturated solution		250 ml	E485952	672
Sudan yellow		25 g	453582	672
Thymol blue		5 g	429228	700
Thymol blue		25 g	429222	700
Thymol blue		50 g	429223	700
Thymolphthalein		5 g	487728	701
Thymolphthalein		25 g	487729	701
Tiron		10 g	488131	704
Tiron		25 g	488132	704

Description	Notes	Size	Code	Page
Tropaeolin O		10 g	490001	721
Tropaeolin O		25 g	490002	721
Xylenecyanol		1 g	492211	733
Xylenecyanol		25 g	492212	733
Xylenol orange		1 g	423597	733
Xylenol orange		5 g	423598	733
Xylenol orange		25 g	423599	733
Zincon		5 g	495144	744

Shuttle Service

Stainless steel returnable containers to optimize solvent quality and the management of packaging waste

- Improved safety
- Environmental impact
- Quality preserved
- Efficient Logistic

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Absorbent for split liquids

Assorbente per liquidi versati • Absorbant pour liquides répandus • Absorbente para líquidos derramados

Absorbent for split liquids > RE - Pure

RE

Description ..... Polvere nocciola Identification ..... Positive

Code	Size	Packaging	Notes
300101	1 kg	Plastic bottle	
300102	5 kg	Plastic jar	

Acetal

Acetale • Acétal • Acetal

Synonym:
1,1-Diethoxyacetal
1,1-Diethoxyethane

$CH_3CH(OC_2H_5)_2$
Molecular Weight: 118,18
CAS: 105-57-7
EEC-N: 203-310-6

Classification transport
ONU: 1088
Transport Hazard class: 3
Packing group II

Danger
H225-H315-H319
P210-P241-P264-P303+P361+P353-P305+P351+P338-P403+P235

Acetal > RE - Pure - Reagent Ph.Eur.

RE

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 20° C ..... 0.822 ÷ 0.829
Refractive index at 20°C ..... 1.3790 ÷ 1.3850
Assay (GLC) ..... ≥ 98.5 %

Code	Size	Packaging	Notes
400155	100 ml	Glass bottle	

Acetamide

Acetammide • Acétamide • Acetamida

Synonym:
Amide C2

CH_3CONH_2
Molecular Weight: 59,07
CAS: 60-35-5
EEC-N: 200-473-5

Warning
H351
P280-P201-P202-P308+P313-P405-P501a

Acetamide > RPE - For analysis

RPE

Description ..... Colourless crystals
Identification ..... Positive
Melting point ..... 78.5 ÷ 81.5 °C
Acetate ..... ≤0.2 %
Chloride ..... ≤20 ppm
Alcohol-benzene insol. ..... ≤100 ppm
Heavy metals (Pb) ..... ≤5 ppm
Residue on ignition ..... ≤100 ppm
Sulphate ..... ≤20 ppm
Fe ..... ≤5 ppm
Assay (ex nitrogen) ..... 99 ÷ 100 %

Code	Size	Packaging	Notes
400204	100 g	Plastic bottle	

Acetanilide

Acetanilide • Acétanilide • Acetanilida

Synonym:
N-Phenylacetamide

$CH_3CONHC_6H_5$
Molecular Weight: 135,17
CAS: 103-84-4
EEC-N: 203-150-7

Warning
H302
P264-P270-P330-P301+P312a-P501a

Acetanilide > RPE - For analysis

RPE

Description ..... Whitish powder
Identification ..... Positive
Melting point ..... 111 ÷ 115 ° C
Water (K.F.) ..... ≤ 0.2 %
Residue on ignition ..... ≤ 0.1 %
Assay (GLC) ..... ≥ 99.0 %

Code	Size	Packaging	Notes
400255	250 g	Plastic bottle	

Acetate buffer pH 4.6

Tampone acetato pH 4.6 • Tampon acétate pH 4.6 • Tampón acetato pH 4.6

Acetate buffer pH 4.6 > RS - For analysis according to Ph. Eur. Chap. 4.1.3

RS

Code	Size	Packaging	Notes
614001400	1 l	Plastic bottle	Ref Ph.Eur 4001400

Acetate buffer pH 6.0

Tampone acetato pH 6.0 • Tampon acétate pH 6.0 • Tampón acetato pH 6.0

Acetate buffer pH 6.0 > RS - For analysis according to Ph. Eur. Chap. 4.1.3

RS

Code	Size	Packaging	Notes
614002200	1 l	Plastic bottle	Ref Ph.Eur 4002200

Acetic acid glacial

Acido acetico glaciale • Acide acétique glacial • Acido acético glacial

CH_3COOH
Molecular Weight: 60,05
CAS: 64-19-7
EEC-N: 200-580-7

Classification transport
ONU: 2789
Transport Hazard class: 8
Packing group II

Danger
H226-H314
P210-P241-P264-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

Acetic acid glacial > RS - For LC/MS

RS

Description ..... Clear colourless liquid
Colour (APHA) ..... ≤10
Refractive index at 20°C . 1.3711 ÷ 1.3731
Density at 20° C ..... 1.0501 ÷ 1.0521
Boiling point ..... 118.3 - 118.8. °C
Water (K.F.) ..... ≤ 0.1 %
Subst. reducing KMnO4 ..... Conform
Subst.reducing dichromate ..... Conform
Residue on evaporation ..... ≤ 5 ppm
Assay (GC) ..... ≥ 99.95 %
U.V. Transmittance
at 254 nm ..... ≥ 30 %
at 260 nm ..... ≥ 80 %
at 270 nm ..... ≥ 95 %
at 280 nm ..... ≥ 97 %
Al ..... ≤ 0.05 ppm
Fe ..... ≤ 0.2 ppm
Na ..... ≤ 0.5 ppm
Ca ..... ≤ 0.1 ppm
Mg ..... ≤ 0.1 ppm
K ..... ≤ 0.1 ppm

Code	Size	Packaging	Notes
401411	10 x 1 ml	Ampoule	
401412	10 x 2.5 ml	Ampoule	
401413	50 ml	Plastic bottle	
401414	1 l	Glass bottle	

Additive for eluent phase for LC-MS. Store at temperature > 20 °C

Acetic acid glacial > RS - For HPLC - Isocratic Grade

RS

Appearance ..... Clear colourless liquid
Colour ..... ≤ 10 Hazen
Water content (K.F.) ..... ≤ 0.05 % m/m
UV transmittance at 254 nm ..... ≥ 25 %
UV transmittance at 260 nm ..... ≥ 80 %
Non volatile residue ..... ≤ 10 mg/Kg
Assay (GC) ..... ≥ 99.8 %

Code	Size	Packaging	Notes
401431	1 l	Glass bottle	
401432	2.5 l	Glass bottle	

Store at temperature > 20 °C

Acetic acid glacial > RS - Ultrapure - For trace analysis at ppt level

RS

Description ..... Clear colourless liquid
Identification ..... Positive
Ag ..... ≤ 50 ppt
Al ..... ≤ 50 ppt
As ..... ≤ 50 ppt
Ba ..... ≤ 10 ppt
Be ..... ≤ 10 ppt
Bi ..... ≤ 10 ppt
Ca ..... ≤ 50 ppt
Cd ..... ≤ 10 ppt
Co ..... ≤ 10 ppt
Cr ..... ≤ 10 ppt
Cu ..... ≤ 10 ppt
Fe ..... ≤ 50 ppt
K ..... ≤ 50 ppt
Mg ..... ≤ 50 ppt
Mn ..... ≤ 10 ppt
Mo ..... ≤ 10 ppt
Na ..... ≤ 100 ppt
Ni ..... ≤ 50 ppt
Pb ..... ≤ 10 ppt
Sb ..... ≤ 50 ppt
Sn ..... ≤ 50 ppt
Sr ..... ≤ 10 ppt
Ti ..... ≤ 10 ppt
V ..... ≤ 10 ppt
Zn ..... ≤ 50 ppt
Zr ..... ≤ 10 ppt
Assay (acidimetric) ..... ≥ 99 %
U ..... ≤ 1 ppt
Th ..... ≤ 1 ppt
Ce ..... ≤ 10 ppt
Cs ..... ≤ 10 ppt
Dy ..... ≤ 1 ppt
Er ..... ≤ 1 ppt
Eu ..... ≤ 1 ppt
Gd ..... ≤ 1 ppt
Ga ..... ≤ 10 ppt
Ge ..... ≤ 10 ppt
Hf ..... ≤ 10 ppt
Ho ..... ≤ 1 ppt
In ..... ≤ 1 ppt
La ..... ≤ 1 ppt
Li ..... ≤ 10 ppt
Lu ..... ≤ 10 ppt
Nd ..... ≤ 1 ppt
Pt ..... ≤ 50 ppt
Pr ..... ≤ 1 ppt
Re ..... ≤ 10 ppt
Rh ..... ≤ 50 ppt
Rb ..... ≤ 10 ppt
Ru ..... ≤ 50 ppt
Sm ..... ≤ 1 ppt
Sc ..... ≤ 10 ppt
Te ..... ≤ 1 ppt
Tb ..... ≤ 1 ppt
Tm ..... ≤ 1 ppt
W ..... ≤ 10 ppt
Yb ..... ≤ 1 ppt
Y ..... ≤ 1 ppt
Tl ..... ≤ 10 ppt

Code	Size	Packaging	Notes
401361	500 ml	Plastic bottle	

Store at temperature above 20 °C

Acetic acid glacial > RS - Superpure - For trace analysis at ppb level

RS

Description	Clear colourless liquid	Cr	≤ 1 ppb	Mg	≤ 0.5 ppb	Sr	≤ 0.5 ppb
Colour (APHA)	≤ 10	Cs	≤ 0.1 ppb	Mn	≤ 0.5 ppb	Tb	≤ 0.1 ppb
Identification	Positive	Cu	≤ 0.5 ppb	Mo	≤ 0.5 ppb	Te	≤ 0.5 ppb
Chloride	≤ 1 ppm	Dy	≤ 0.1 ppb	Na	≤ 1 ppb	Th	≤ 0.1 ppb
Phosphate	≤ 1 ppm	Er	≤ 0.1 ppb	Nd	≤ 0.1 ppb	Ti	≤ 0.5 ppb
Sulphate	≤ 0.5 ppm	Eu	≤ 0.1 ppb	Ni	≤ 0.5 ppb	Tl	≤ 0.1 ppb
Reducing dichromate	Conform	Fe	≤ 1 ppb	Pb	≤ 0.1 ppb	Tm	≤ 0.1 ppb
Subst. reducing KMnO4	Conform	Ga	≤ 0.1 ppb	Pr	≤ 0.1 ppb	U	≤ 0.1 ppb
Al	≤ 1 ppb	Ge	≤ 0.5 ppb	Pt	≤ 0.5 ppb	V	≤ 0.5 ppb
Ag	≤ 1 ppb	Gd	≤ 0.1 ppb	Rb	≤ 0.1 ppb	W	≤ 0.5 ppb
As	≤ 0.5 ppb	Hf	≤ 0.1 ppb	Re	≤ 0.1 ppb	Y	≤ 0.1 ppb
Ba	≤ 0.5 ppb	Hg	≤ 1 ppb	Rh	≤ 0.5 ppb	Yb	≤ 0.1 ppb
Be	≤ 0.1 ppb	Ho	≤ 0.1 ppb	Ru	≤ 0.5 ppb	Zn	≤ 1 ppb
Bi	≤ 0.1 ppb	In	≤ 0.1 ppb	Sb	≤ 0.5 ppb	Zr	≤ 0.1 ppb
Ca	≤ 1 ppb	K	≤ 1 ppb	Sc	≤ 0.1 ppb	Assay (acidimetric)	≥ 99 %
Cd	≤ 0.5 ppb	La	≤ 0.1 ppb	Se	≤ 1 ppb		
Ce	≤ 0.1 ppb	Li	≤ 0.1 ppb	Sm	≤ 0.1 ppb		
Co	≤ 0.1 ppb	Lu	≤ 0.1 ppb	Sn	≤ 0.5 ppb		

Code	Size	Packaging	Notes
401405	500 ml	Plastic bottle	
401406	1 l	Plastic bottle	
401407	2.5 l	Plastic bottle	

Store at temperature > 20 °C

Acetic acid glacial > RS - RSE - For electronic use

RS

Description	Clear liquid	Phosphate	≤0.1 ppm	Ca	≤0.2 ppm	Na	≤0.2 ppm
Colour (APHA)	≤10	Heavy metals (Pb)	≤0.2 ppm	Cd	≤0.01 ppm	Ni	≤0.03 ppm
Identification	Positive	Reducing chromic acid	≤100 ppm	Co	≤0.01 ppm	Pb	≤0.01 ppm
Water miscibility	Conform	Subst. reducing KMnO4	≤10 ppm	Cr	≤0.03 ppm	Pt	≤0.05 ppm
Freezing point	≥16.24 °C	Sulphate	≤0.5 ppm	Cu	≤0.01 ppm	Sb	≤0.005 ppm
Assay (acidimetric)	≥99.9 %	Ag	≤0.02 ppm	Fe	≤0.1 ppm	Sn	≤0.02 ppm
Density at 20° C	1.0495 ÷ 1.0503	Al	≤0.01 ppm	Ga	≤0.02 ppm	Sr	≤0.02 ppm
Boiling point	118.3 ÷ 118.8 °C	As	≤0.005 ppm	In	≤0.02 ppm	Ta	≤0.1 ppm
Residue on evaporation	≤5 ppm	Au	≤0.05 ppm	K	≤0.1 ppm	Ti	≤0.05 ppm
Formic acid	≤0.1 %	B	≤0.01 ppm	Li	≤0.02 ppm	Tl	≤0.05 ppm
Acetic anhydride	≤100 ppm	Ba	≤0.1 ppm	Mg	≤0.05 ppm	V	≤0.05 ppm
Chloride	≤1 ppm	Be	≤0.02 ppm	Mn	≤0.01 ppm	Zn	≤0.05 ppm
Carbonyl Compounds (CO)	≤2 ppm	Bi	≤0.02 ppm	Mo	≤0.05 ppm	Zr	≤0.05 ppm

Code	Size	Packaging	Notes
401463	1 l	Glass bottle	
401462	2.5 l	Glass bottle	

Store at temperature > 20 °C

Acetic acid glacial > RS - For potentiometry

RS

Refractive index at 20°C	1.371 - 1.374	Reducing substances	Conform	Aluminium (Al)	≤ 0.05 mg/Kg	Magnesium (Mg)	≤ 0.1 mg/Kg
Water content (K.F.)	≤ 1000 mg/Kg	Assay (GC)	≥ 99.8 %	Barium (Ba)	≤ 0.1 mg/Kg	Manganese (Mn)	≤ 0.05 mg/Kg
Non volatile residue	≤ 10 mg/Kg	Acetic anhydride	≤ 0.025 %	Cadmium (Cd)	≤ 0.05 mg/Kg	Lead (Pb)	≤ 0.05 mg/Kg
Colour	≤ 10 Hazen	Chloride (Cl-)	≤ 1 mg/Kg	Cobalt (Co)	≤ 0.05 mg/Kg	Zinc (Zn)	≤ 0.1 mg/Kg
Titrable base	Conform	Sulphate (SO4--)	≤ 1 mg/Kg	Iron (Fe)	≤ 1 mg/Kg	Arsenic (As)	≤ 0.02 mg/Kg

Code	Size	Packaging	Notes
P00725P15	1 l	Plastic bottle	
P00725P21	2.5 l	Glass bottle	

Store at temperature > 20°C

Acetic acid glacial > RS - For titration in non-aqueous medium

RS

Description	Clear colourless liquid	Identification	Positive	Density at 20° C	1.049 ÷ 1.051	Assay	≥ 99.8 %

Code	Size	Packaging	Notes
401453	1 l	Glass bottle	
401455	2.5 l	Glass bottle	

Store at temperature > 20 °C

Acetic acid glacial > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description . Clear liquid or crystalline mass
Colour (APHA) ..... ≤10
Identification ..... Positive
Water miscibility..... Conform
Titrable base..... Conform
Subst. reducing KMn04..... Conform
Density at 20° C ..... 1.0501 ÷ 1.0521
Refractive index at 20°C. 1.3711 ÷ 1.3731
Boiling point..... 118.3 ÷ 118.8 °C
Freezing point ..... ≥16 °C
Assay (acidimetric) ..... 99.5 ÷ 100.5 %
Residue on evaporation ..... ≤ 10 ppm
Formic acid..... ≤0.05 %
Acetic anhydride ..... ≤100 ppm
Chloride..... ≤1 ppm
Carbonyl Compounds (CO) ..... ≤2 ppm
Phosphate ..... ≤0.5 ppm
Heavy metals (Pb)..... ≤0.5 ppm
Sulphate..... ≤0.5 ppm
Ag..... ≤0.02 ppm
Al..... ≤0.05 ppm
As..... ≤0.01 ppm
Ba..... ≤0.1 ppm
Be..... ≤0.02 ppm
Bi..... ≤0.02 ppm
Ca..... ≤0.2 ppm
Cd..... ≤0.05 ppm
Co..... ≤0.01 ppm
Cr..... ≤0.03 ppm
Cu..... ≤0.01 ppm
Fe..... ≤0.2 ppm
K..... ≤0.1 ppm
Li..... ≤0.02 ppm
Mg..... ≤0.1 ppm
Mn..... ≤0.01 ppm
Mo..... ≤0.05 ppm
Na..... ≤0.5 ppm
Ni..... ≤0.03 ppm
Pb..... ≤0.02 ppm
Sr..... ≤0.02 ppm
Ti..... ≤0.1 ppm
Tl..... ≤0.05 ppm
V..... ≤0.05 ppm
Zn..... ≤0.05 ppm
Zr..... ≤0.1 ppm
Reducing chromic acid ..... Conform ACS
Water (K.F.) ..... ≤ 1500 ppm
Acetaldehyde ..... ≤ 500 ppm

Code	Size	Packaging	Notes
401421	1 l	Glass bottle PVC coated	
401422	1 l	Glass bottle	
401424	2.5 l	Glass bottle	
401425	30 kg	Plastic drum	

Store at temperature > 20 °C

Acetic acid glacial > RPE - For analysis

RPE

Description . Clear liquid or crystalline mass
Colour (APHA) ..... ≤10
Identification ..... Positive
Water miscibility..... Conform
Subst. reducing KMn04..... Conform
Density at 20° C ..... 1.0501 ÷ 1.0521
Refractive index at 20°C. 1.3711 ÷ 1.3731
Boiling point..... 118.3 ÷ 118.8 °C
Freezing point ..... ≥16 °C
Assay (acidimetric) ..... 99.5÷100.5 %
Residue on evaporation ..... ≤10 ppm
Formic acid..... ≤0.05 %
Acetic anhydride ..... ≤100 ppm
Chloride..... ≤1 ppm
Carbonyl Compounds (CO) ..... ≤2 ppm
Phosphate ..... ≤0.5 ppm
Heavy metals (Pb)..... ≤0.5 ppm
Sulphate..... ≤0.5 ppm
Ag..... ≤0.02 ppm
Al..... ≤0.05 ppm
As..... ≤0.01 ppm
Ba..... ≤0.1 ppm
Be..... ≤0.02 ppm
Bi..... ≤0.02 ppm
Ca..... ≤0.2 ppm
Cd..... ≤0.05 ppm
Co..... ≤0.01 ppm
Cr..... ≤0.03 ppm
Cu..... ≤0.01 ppm
Fe..... ≤0.5 ppm
K..... ≤0.1 ppm
Li..... ≤0.02 ppm
Mg..... ≤0.1 ppm
Mn..... ≤0.01 ppm
Mo..... ≤0.05 ppm
Na..... ≤0.5 ppm
Ni..... ≤0.03 ppm
Pb..... ≤0.02 ppm
Sr..... ≤0.02 ppm
Ti..... ≤0.1 ppm
Tl..... ≤0.05 ppm
V..... ≤0.05 ppm
Zn..... ≤0.05 ppm
Zr..... ≤0.1 ppm
Water (K.F.) ..... ≤ 1500 ppm
Assay (CPG) ..... ≥ 99.8 %
Acetaldehyde ..... ≤ 500 ppm

Code	Size	Packaging	Notes
401391	1 l	Glass bottle	
524520	1 l	Plastic bottle	
401392	2.5 l	Glass bottle	
524521	2.5 l	Plastic bottle	
401396	30 kg	Plastic drum	
401397	200 kg	Polythene-metal drum	

Store at temperature > 20°C

Acetic acid glacial > ERBApharm - According to pharmacopoeia : Ph.Eur.-USP-FU-NF-DAB-JP

ERBApharm

Description ..... Clear, colourless liquid or crystalline mass
Identification ..... Positive
Appearance of solution ..... Conform Ph.Eur.
Colour ..... ≤ 10 APHA
Reducing impurities..... Conform Ph.Eur.
Ready oxidizable substances..... Conform USP-NF
Freezing point ..... ≥ 15.6 °C
Refractive index at 20°C..... 1.370 - 1.374
Water (K.F.) ..... ≤ 3000 ppm
Residue on evaporation ..... ≤ 50 mg/l
Chloride..... ≤ 2 mg/l
Sulphate..... ≤ 2 mg/l
Sulfate..... Conform USP-NF
Heavy metals (Pb)..... ≤ 5 ppm
Fe..... ≤ 5 ppm
Assay (acidimetric) ..... 99.5 ÷ 100.5 %
Origin (BSE/TSE)..... Synthesis

Code	Size	Packaging	Notes
302016	1 l	Glass bottle	
302011	2.5 l	Glass bottle	
302014	5 l	Plastic tank	
302015	30 kg	Plastic drum	
302013	200 kg	Polythene-metal drum	

Store at temperature > 20 °C

Acetic acid glacial > RE - Pure

RE

Description ..... Clear liquid	Subst. reducing KMnO4 ..... ≤ 40 ppm	Water ..... ≤ 2500 ppm	Sulphate ..... ≤ 2 ppm
Density at 20°C ..... 1.049 ÷ 1.051	Density at 20° C ..... 1.050 ÷ 1.052	Formic acid ..... ≤ 100 ppm	As ..... ≤ 0.5 ppm
Colour (APHA) ..... ≤ 10	Refractive index at 20°C ..... 1.371 ÷ 1.373	Chloride ..... ≤ 1 ppm	Cu ..... ≤ 0.1 ppm
Identification ..... Positive	Boiling point ..... 118.3 ÷ 118.8 °C	Carbonyl Compounds (CO) ..... ≤ 2 ppm	Fe ..... ≤ 1 ppm
Water miscibility ..... Conform	Freezing point ..... ≥ 16.24 °C	Heavy metals (Pb) ..... ≤ 1 ppm	Ni ..... ≤ 0.1 ppm
Assay ..... ≥ 99 %	Residue on evaporation ..... ≤ 30 ppm	Reducing chromic acid ..... ≤ 30 ppm	Assay (acidimetric) ..... ≥ 99.8 %

Code	Size	Packaging	Notes
302031	1 l	Plastic bottle	
302032	2.5 l	Glass bottle	
302034	5 l	Plastic tank	
302033	10 l	Plastic tank	

Store at temperature > 20 °C

Acetic acid 96%

Acido acetico 96% • Acide acétique 96% • Acido acético 96%

CH_3COOH
Molecular Weight: 60,05
CAS: 64-19-7
EEC-N: 200-580-7

Classification transport
ONU: 2789
Transport Hazard class: 8
Packing group II

Danger
H226-H314
P210-P241-P264-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

Acetic acid 96% > RE - Pure

RE

Description ..... Clear colourless liquid	Density at 20° C ..... 1.049 ÷ 1.051	Heavy metals (Pb) ..... ≤50 ppm	Iron ..... ≤50 ppm
Identification ..... Positive	Residue on evaporation ..... ≤100 ppm	Sulphate ..... ≤1000 ppm	Assay (acidimetric) ..... ≥96 %

Code	Size	Packaging	Notes
302002	1 l	Glass bottle	
302003	2.5 l	Glass bottle	
302005	25 kg	Plastic tank	
302007	50 kg	Plastic tank	

Store at temperature > 20 °C

Acetic acid 80%

Acido acetico 80% • Acide acétique 80% • Acido acético 80%

CH_3COOH
Molecular Weight: 60,05
CAS: 64-19-7

Classification transport
ONU: 2789
Transport Hazard class: 8
Packing group II

Danger
H226-H314
P210-P241-P264-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

Acetic acid 80% > RE - Pure

RE

Description ..... Clear liquid	Density at 20° C ..... 1.069 ÷ 1.071	Acetic anhydride ..... ≤500 ppm	As ..... ≤0.4 ppm
Acetic acid content ..... 80.5 - 82.5 %	Subst. reducing KMnO4 ..... ≤40 ppm	Chloride ..... ≤1 ppm	Cu ..... ≤0.1 ppm
Colour (APHA) ..... ≤10	Residue on evaporation ..... ≤30 ppm	Heavy metals (Pb) ..... ≤2 ppm	Fe ..... ≤0.5 ppm
Identification ..... Positive	Formic acid ..... ≤200 ppm	Sulphate ..... ≤1 ppm	Ni ..... ≤0.1 ppm
Water miscibility ..... Conform	Alcoh acetone acetaldeh ..... ≤50 ppm	Al ..... ≤0.1 ppm	Assay (acidimetric) ..... 80.5 ÷ 82.5 %

Code	Size	Packaging	Notes
301855	5 l	Plastic tank	
PS0776/49	25 l	Plastic tank	
301852	50 kg	Plastic tank	
301853	200 kg	Plastic drum	

Store at temperature > 20°C

Acetic acid 45%

Acido acetico 45% • Acide acétique 45% • Acido acético 45 %

CH_3COOH
Molecular Weight: 60,05
CAS: 64-19-7

Classification transport
ONU: 2790
Transport Hazard class: 8
Packing group III

Danger
H314
P264-P260h-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Acetic acid 45% > RE - Pure - For glassware washing

RE

Description ..... Clear colourless liquid Assay (acetic acid)..... 44 ÷ 46 %

Code	Size	Packaging	Notes
526545	5 l	Plastic tank	
526546	10 l	Plastic tank	

Acetic acid 30%

Acido acetico 30% • Acide acétique 30% • Acido acético 30%

CH_3COOH
Molecular Weight: 60,05
CAS: 64-19-7

Classification transport
ONU: 2790
Transport Hazard class: 8
Packing group III

Danger
H314
P264-P260h-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Acetic acid 30% > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611000401	1 l	Plastic bottle	Ref Ph.Eur 1000401

Acetic acid 28%

Acido acetico 28% • Acide acétique 28% • Acido acético 28 %

CH_3COOH
Molecular Weight: 60,05
CAS: 64-19-7

Classification transport
ONU: 2790
Transport Hazard class: 8
Packing group III

Danger
H314
P264-P260h-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Acetic acid 28% > RE - Pure

RE

Description ..... Clear colourless liquid
Density at 20° C ..... 1.035 - 1.037
Residue on evaporation ..... ≤500 ppm
Heavy metals (Pb)..... ≤50 ppm
Fe ..... ≤20 ppm
Assay (acidimetric) ..... 28 - 30 %

Code	Size	Packaging	Notes
301826000	1 l	Glass bottle	

Acetic acid 27%

Acido acetico 27% • Acide acétique 27% • Acido acético 27 %

CH_3COOH
Molecular Weight: 60,05
CAS: 64-19-7

Classification transport
ONU: 2790
Transport Hazard class: 8
Packing group III

Danger
H314
P264-P260h-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Acetic acid 27% > RS - For glassware washing

RS

Assay (acidimetric) ..... 26 ÷ 28 %

Code	Size	Packaging	Notes
508645	5 l	Plastic tank	

Content is guaranteed for standardized volumes at 20 °C. Keep tightly closed

Acetic acid 25%

Acido acetico 25% • Acide acétique 25% • Acido acético 25 %

CH_3COOH
Molecular Weight: 60.05
CAS: 64-19-7

Classification transport
ONU: 2790
Transport Hazard class: 8
Packing group III

Danger
H314
P264-P260h-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Acetic acid 25% > RE - Pure

RE

Density d20/4 ..... 1.03 - 1.032 Acetic acid content ..... 24 - 26 %

Code	Size	Packaging	Notes
PS0222/52	30 l	Plastic tank	

Acetic acid 17%

Acido acetico 17% • Acide acétique 17% • Acido acético 17%

CH_3COOH
Molecular Weight: 60,05
CAS: 64-19-7

Classification transport
ONU: 2790
Transport Hazard class: 8
Packing group III

Warning
H315-H319
P264-P280g-P280i-P305+P351+P338-P332+P313-P337+P313

Acetic acid 17% > RE - Pure - For washing

RE

Assay ..... 15 - 20 %

Code	Size	Packaging	Notes
PS0808/41	10 l	Plastic tank	

Acetic acid 12%

Acido acetico 12% • Acide acétique 12% • Acido acético 12 %

CH_3COOH
Molecular Weight: 60.05
CAS: 64-19-7

Classification transport
ONU: 2790
Transport Hazard class: 8
Packing group III

Warning
H315-H319
P264-P280g-P280i-P305+P351+P338-P332+P313-P337+P313

Acetic acid 12% > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611000402	1 l	Plastic bottle	Ref Ph.Eur 1000402

Acetic acid 12% > RPE - For analysis

RPE

Description ..... Clear colourless liquid Identification ..... Positive Density at 20° C ..... 1.014 ÷ 1.016 Assay (acidimetric) ..... 11.5 - 12.5 %

Code	Size	Packaging	Notes
401531	1 l	Glass bottle	

Content is guaranteed for standardized volumes at 20 °C. Keep tightly closed

Acetic acid 12% > RE - Pure

RE

Density d20/4 ..... 1.014 - 1.015 Acetic acid content ..... 11.5 - 12.5 %

Code	Size	Packaging	Notes
PS0221/29	5 l	Plastic tank	

Acetic acid 1 mol/l (1N)

Acido acetico 1 mol/l (1N) • Acide acétique 1 mol/l (1N) • Acido acético 1 mol/l (1N)

CH_3COOH HEU210
Molecular Weight: 60,05
CAS: 64-19-7

Acetic acid 1 mol/l (1N) > RS - For analysis according to USP

RS

Code	Size	Packaging	Notes
617000171	1 l	Plastic bottle	

Content is guaranteed for standardized volumes at 20°C. Keep tightly closed

Acetic acid 1 mol/l (1N) > RPE - For analysis - Reag. Ph.Eur. - Reag. USP

RPE

Assay (potentiometric) .....0.998 ÷ 1.002 mol/L

Code	Size	Packaging	Notes
524605	5 l	Plastic tank	

Content is guaranteed for standardized volumes at 20°C. Keep tightly closed

Acetic acid 1 mol/l (1N) > RPE - For analysis

RPE

Description ..... Clear colourless liquid Assay (potentiometry) .....0.999 - 1.001 N

Code	Size	Packaging	Notes
502000	1 l	Glass bottle	

Content is guaranteed for standardized volumes at 20 °C. Keep tightly closed

Acetic acid 1 mol/l (1N) > ERBApharm - Prepared from raw material according Ph.Eur

ERBApharm

Identification (Ph.Eur).....Conform Assay (Ph.Eur).....0.95 - 1.05 N Origine (BSE-TSE).....Conform Residual solvents (Current ICH).....Conform

Code	Size	Packaging	Notes
524641	1 l	Plastic bottle	

Content is guaranteed for standardized volumes at 20°C. Keep tightly closed

Acetic acid 0.1 mol/l (0.1N)

Acido acetico 0.1 mol/l (0.1N) • Acide acétique 0.1 mol/l (0.1N) • Acido acético 0.1 mol/l (0.1N)

CH_3COOH HEU210
Molecular Weight: 60,05
CAS: 64-19-7

Acetic acid 0.1 mol/l (0.1N) > RPE - For analysis

RPE

Assay (potentiomety) .....0.0999 - 0.1001 N

Code	Size	Packaging	Notes
P3100015	1 l	Plastic bottle	

Acetic acid 0.1 mol/l (0.1N) > RPE - NORMEX - For analysis

RPE

Description ..... Clear colourless liquid Identification ..... Positive Titration factor.....0.995 ÷ 1.005

Code	Size	Packaging	Notes
401561		Plastic ampoule	Volume : 55 ml

6,005 g of CH3COOH. Volumetric concentrated solution to prepare 1 L of solution 0,1 N

Acetic acid 0.03 mol/l (0.03N)

Acido acetico 0.03 mol/l (0.03N) • Acide acétique 0.03 mol/l (0.03N) • Acido acético 0.03 mol/l (0.03N)

CH_3COOH HEU210
Molecular Weight: 60,05
CAS: 64-19-7

Acetic acid 0.03 mol/l (0.03N) > RPE - For analysis - Reag. Ph.Eur. - Reag. USP

RPE

Assay (potentiometric) .....0.02994 ÷ 0.03006 mol/L

Code	Size	Packaging	Notes
524611	10 l	Kubidos	

Acetic acid-d4

Acido acetico-d4 • Acide acétique-d4 • Acido acético-d4

Synonym:
Tetradeuteroacetic acid

CD_3COOD
Molecular Weight: 64,08
CAS: 1186-52-3
EEC-N: 214-693-4

Classification transport
ONU: 2789
Transport Hazard class: 8
Packing group II

Danger
H226-H314
P210-P241-P264-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

Acetic acid-d4 > RS - For NMR - min 99.5%

RS

Code	Size	Packaging	Notes
P5013A	5 ml	Glass ampoule	

Acetic acid-d4 > RS - For NMR - min 99,9%

RS

Code	Size	Packaging	Notes
P5039	10 x 0.75 ml	Glass ampoule	

Acetic acid isopropyl ester ▶ Isopropyl acetate

Acetic acid magnesium salt ▶ Magnesium acetate tetrahydrate

Acetic anhydride

Anidride acetica • Anhydride acétique • Anhídrido acético

$(CH_3CO)_2O$
Molecular Weight: 102,09
CAS: 108-24-7

Classification transport
ONU: 2733
Transport Hazard class: 3
Packing group II

Danger
H225-H302-H312-H332-H314-H318-H335
P210-P241-P264-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

Acetic anhydride > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611000501	1 l	Glass bottle	Acetic anhydride solution R1 Ref Ph.Eur 1000501

Storage: protected from light and air

Acetic anhydride > RPE - For analysis - ACS

RPE

Description	Clear liquid	Refractive index at 20°C	1.3881 ÷ 1.3931	Chloride	≤5 ppm	Fe	≤5 ppm
Colour (APHA)	≤20	Boiling point	136 ÷ 142 °C	Phosphate	≤10 ppm	Assay (GLC)	≥97.0 %
Identification	Positive	Residue on evaporation	≤30 ppm	Heavy metals (Pb)	≤2 ppm		
Density at 20° C	1.080 ÷ 1.084	Subst. reducing KMnO4	Conform ACS	Sulphate	≤5 ppm		

Code	Size	Packaging	Notes
421491	1 l	Glass bottle	
421496	2.5 l	Glass bottle	
421493	30 kg	Plastic drum	

Storage: protected from light and air

Acetic anhydride > RE - Pure

RE

Description	Clear liquid	Refractive index at 20°C	1.3856 ÷ 1.3956	Chloride	≤5 ppm	Assay (GLC)	≥99.5 %
Identification	Positive	Residue on evaporation	≤100 ppm	Heavy metals (Pb)	≤ 2 ppm	Assay (acidimetric)	≥99.5 % (m/m)
Colour	≤ 10 APHA	Subs. reducing KMnO4	≤ 0.02 %	Al	≤ 1 ppm		
Density at 20° C	1.079 ÷ 1.085	Acetic acid	≤ 0.5 %	Fe	≤ 1 ppm		

Code	Size	Packaging	Notes
316501	1 l	Glass bottle	
316503	30 kg	Plastic drum	
316502	210 kg	Metal drum	

Storage: protected from light and air

Acetoacetic ester ▶ Ethyl acetoacetate

Acetone
Acetone • Acétone • Acetona

Synonym:
2-Propanone

CH_3COCH_3
Molecular Weight: 58
CAS: 67-64-1
EEC-N: 200-662-2

Classification transport
ONU: 1090
Transport Hazard class: 3
Packing group II

Danger
H225-H319-H336-HEU066
P210-P241-P264-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

Acetone > RS - For HPLC - Isocratic Grade
RS

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 20° C ..... 0.790 ÷ 0.792
Refractive index at 20°C . 1.3581 ÷ 1.3601
Boiling point ..... 55.8 ÷ 56.3 ° C
Water (K.F.) ..... ≤ 500 ppm
Residue on evaporation ..... ≤5 ppm
Acidity ..... ≤0.0005 meq/g
Alcalinity ..... ≤0.0002 meq/g
Assay (GLC) ..... ≥99.9 %
U.V. Transmittance
At 335 nm ..... ≥ 60 %
at 340 nm ..... ≥ 85 %
At 345 nm ..... ≥ 90 %
at 350 nm ..... ≥ 98 %
at 360 nm ..... ≥ 99 %

Code	Size	Packaging	Notes
412501	1 l	Glass bottle	
412502	2.5 l	Glass bottle	

Acetone > RS - ATRASOL - For analysis of volatile traces
RS

Refractive index at 20°C ..... 1.357 - 1.361
Water content (K.F.) ..... ≤ 500 mg/Kg
Colour ..... ≤ 10 Hazen
Free acid (as CH3COOH) ..... ≤ 20 mg/Kg
2-Propanol ..... ≤ 500 mg/Kg
Non volatile residue ..... ≤ 2 mg/Kg
Ethanol ..... ≤ 100 mg/Kg
Assay (GC) ..... ≥ 99.8 %
Methanol ..... ≤ 500 mg/Kg
GC (FID) - NC Atrasol ..... Conform
GC-ECD.Individual peak (Lindane) .. ≤ 2 ng/l
Retention time trichlorobenzene to mirex
GC-FID.Individ. peak (hexadecane) . ≤ 5 µg/l
Retention time range over toluène
GC-ECD.Individual peak (CCl4) ..... ≤ 1 µg/l

Code	Size	Packaging	Notes
P0053216	1 l	Glass bottle	
P0053221	2.5 l	Glass bottle	

Acetone > RS - PESTIPUR - For pesticide analysis
RS

Description ..... Clear liquid
Identification ..... Positive
Colour ..... ≤ 10 hazen
Assay (GLC) ..... ≥ 99.8 %
Water ..... ≤ 0.05 %
Not volatile residue ..... ≤ 2 mg/Kg
Free acid (as CH3COOH) ..... ≤ 20 mg/Kg
GC-ECD (Lindane standard) ..... ≤ 3 ng/l
GC-NPD (Ethylparathion standard) .. ≤ 3 ng/l
Refractive index at 20°C ..... 1.357 ÷ 1.361

Code	Size	Packaging	Notes
400991	1 l	Glass bottle	
400992000	2.5 l	Glass bottle	

Acetone > RS - SPECTROSOL - For optical spectroscopy
RS

Description ..... Clear liquid
Colour (APHA) ..... ≤10
Identification ..... Positive
Density at 20° C ..... 0.790 ÷ 0.792
Refractive index at 20°C . 1.3581 ÷ 1.3601
Boiling point ..... 55.8 ÷ 56.3 ° C
Water (K.F.) ..... ≤ 500 ppm
Residue on evaporation ..... ≤5 ppm
Acidity ..... ≤0.0005 meq/g
Alcalinity ..... ≤0.0002 meq/g
Assay (GLC) ..... ≥99.9 %
Fluorescence
at 365 nm ..... ≤2 ppb
U.V. Transmittance
at 330 nm ..... ≥16 %
at 335 nm ..... ≥60 %
at 340 nm ..... ≥85 %
at 345 nm ..... ≥95 %
at 350 nm ..... ≥98 %

Code	Size	Packaging	Notes
401034	1 l	Glass bottle	
401032	2.5 l	Glass bottle	

Acetone > RS - Anhydrous - For analysis
RS

Clear,colourless liq.appearance ..... Conform
Refractive index at 20°C ..... 1.357 - 1.361
Density d20/20 ..... 0.790 - 0.793
Water content (K.F.) ..... ≤ 100 mg/Kg
Non volatile residue ..... ≤ 10 mg/Kg
Assay (GC) ..... ≥ 99.8 %
Colour ..... ≤ 10 Hazen
Free acid (as CH3COOH) ..... ≤ 20 mg/Kg
Diacetyl alcohol ..... ≤ 500 mg/Kg
Benzene ..... ≤ 2 mg/Kg
Methanol ..... ≤ 500 mg/Kg
Ethanol ..... ≤ 100 mg/Kg
2-Propanol ..... ≤ 500 mg/Kg

Code	Size	Packaging	Notes
P0051010	200 ml	Bottle with septum	
P0051016	1 l	Glass bottle	

Acetone > RS - VLSI For electronic use

RS

Code	Size	Packaging	Notes
527651	1 l	Plastic bottle	
527650	2.5 l	Glass bottle	
527655	5 l	Glass bottle	

Particles control < 250 particles 0.5 µm/ml
For specifications, contact our customer service for a certificate of analysis

Acetone > RS - RSE - For electronic use

RS

Description	Clear liquid	Methyl alcohol	≤500 ppm	Bi	≤0.02 ppm	Na	≤0.2 ppm
Colour (APHA)	≤10	Aldehyde	≤10 ppm	Ca	≤0.1 ppm	Ni	≤0.01 ppm
Identification	Positive	Chloride	≤0.1 ppm	Cd	≤0.005 ppm	Pb	≤0.01 ppm
Water miscibility	Conform	Phosphate	≤0.1 ppm	Co	≤0.005 ppm	Pt	≤0.02 ppm
Assay (GLC)	≥99.8 %	Heavy metals (Pb)	≤0.2 ppm	Cr	≤0.01 ppm	Sb	≤0.01 ppm
Resistivity	≥5 Mohm.cm	Sulphate	≤0.5 ppm	Cu	≤0.01 ppm	Sn	≤0.02 ppm
Density at 20° C	0.790 ÷ 0.792	Subst. reducing KMnO4	≤2 ppm	Fe	≤0.05 ppm	Sr	≤0.02 ppm
Boiling point	55.8 ÷ 56.3 °	Ag	≤0.02 ppm	Ga	≤0.02 ppm	Ti	≤0.05 ppm
Water (K.F.)	≤0.2 %	Al	≤0.05 ppm	In	≤0.02 ppm	Tl	≤0.05 ppm
Residue on evaporation	≤5 ppm	As	≤0.01 ppm	K	≤0.1 ppm	V	≤0.05 ppm
Acidity (formic acid)	≤15 ppm	Au	≤0.05 ppm	Li	≤0.02 ppm	Zn	≤0.01 ppm
Alcalinity (NH3)	≤2 ppm	B	≤0.01 ppm	Mg	≤0.1 ppm	Zr	≤0.05 ppm
Ethyl alcohol	≤100 ppm	Ba	≤0.1 ppm	Mn	≤0.01 ppm		
Isopropyl alcohol	≤500 ppm	Be	≤0.02 ppm	Mo	≤0.05 ppm		

Code	Size	Packaging	Notes
401051	1 l	Glass bottle	
401058	2.5 l	Glass bottle	
401054	5 l	Plastic tank	
401055	5 l	Metal tank	
401052	22 kg	Metal drum	

Acetone > RS - MOS For electronic use

RS

Description	Clear liquid	Methyl alcohol	≤500 ppm	Bi	≤0.02 ppm	Na	≤0.2 ppm
Colour (APHA)	≤10	Aldehyde	≤10 ppm	Ca	≤0.1 ppm	Ni	≤0.01 ppm
Identification	Positive	Chloride	≤0.1 ppm	Cd	≤0.005 ppm	Pb	≤0.01 ppm
Water miscibility	Conform	Phosphate	≤0.1 ppm	Co	≤0.005 ppm	Pt	≤0.02 ppm
Assay (GLC)	≥99.8 %	Heavy metals (Pb)	≤0.2 ppm	Cr	≤0.01 ppm	Sb	≤0.01 ppm
Resistivity	≥5 Mohm.cm	Sulphate	≤0.5 ppm	Cu	≤0.01 ppm	Sn	≤0.02 ppm
Density at 20° C	0.790 ÷ 0.792	Subst. reducing KMnO4	≤2 ppm	Fe	≤0.05 ppm	Sr	≤0.02 ppm
Boiling point	55.8 ÷ 56.3 °	Ag	≤0.02 ppm	Ga	≤0.02 ppm	Ti	≤0.05 ppm
Water (K.F.)	≤0.2 %	Al	≤0.05 ppm	In	≤0.02 ppm	Tl	≤0.05 ppm
Residue on evaporation	≤5 ppm	As	≤0.01 ppm	K	≤0.1 ppm	V	≤0.05 ppm
Acidity (formic acid)	≤15 ppm	Au	≤0.05 ppm	Li	≤0.02 ppm	Zn	≤0.01 ppm
Alcalinity (NH3)	≤2 ppm	B	≤0.01 ppm	Mg	≤0.1 ppm	Zr	≤0.05 ppm
Ethyl alcohol	≤100 ppm	Ba	≤0.1 ppm	Mn	≤0.01 ppm		
Isopropyl alcohol	≤500 ppm	Be	≤0.02 ppm	Mo	≤0.05 ppm		

Code	Size	Packaging	Notes
401042	1 l	Glass bottle	
401041	2.5 l	Glass bottle	

Acetone > RS - For analysis according to Ph. Eur. Chap. 4.1.3

RS

Code	Size	Packaging	Notes
614000100	1 l	Glass bottle	Buffered acetone solution Ref Ph.Eur 4000100

Acetone > RPE - For analysis - ISO - ACS - Reag.Ph.Eur. - Reag.USP

RPE

Description	Clear liquid	Acidity	≤0.0003 meq/g	B	≤0.02 ppm	Mn	≤0.02 ppm
Colour (APHA)	≤10	Alcalinity	≤0.0006 meq/g	Ba	≤0.1 ppm	Ni	≤0.01 ppm
Identification (I.R.)	Conform	Ethyl alcohol	≤100 ppm	Ca	≤0.5 ppm	Pb	≤0.01 ppm
Water solubility	Conform	Isopropyl alcohol	≤500 ppm	Cd	≤0.05 ppm	Sn	≤0.1 ppm
Density at 20° C	0.790 ÷ 0.792	Methyl alcohol	≤500 ppm	Co	≤0.05 ppm	Zn	≤0.01 ppm
Refractive index at 20°C	1.3581 ÷ 1.3601	Aldehyde	≤10 ppm	Cr	≤0.02 ppm	Assay (GLC)	≥99.8 %
Boiling point	55.8 ÷ 56.3 ° C	Heavy metals (Pb)	≤0.2 ppm	Cu	≤0.01 ppm	Related substances (GLC)	Conform
Water (K.F.)	≤0.2 %	Subst. reducing KMnO4	≤2 ppm	Fe	≤0.1 ppm	Benzene	≤ 2 ppm
Residue on evaporation	≤10 ppm	Al	≤0.5 ppm	Mg	≤0.02 ppm	Diacetyl alcohol	≤ 500 ppm

Code	Size	Packaging	Notes
400961	1 l	Plastic bottle	
400971	1 l	Glass bottle	
400974	2.5 l	Glass bottle	
400962	5 l	Plastic tank	
400963	10 l	Plastic tank	
400978	16 kg	Plastic tank	
400972	22 kg	Metal drum	
400979	160 kg	Metal drum	

Acetone > ERBApharm - According to pharmacopoeia : BP-NF-Ph.Eur.

ERBApharm

Description	Clear colourless liquid	Water insoluble substances	Conform Ph.Eur.	Reducing substances	Conform Ph.Eur.	Density at 25°C	≤ 0.789
Identification A	Positive	Related substances (GLC)	Conform Ph.Eur.	Density at 20°C	0.790 ÷ 0.793	Water (GLC)	≤ 0.5 %
Identification B	Positive	Impurities A,B	≤ 0.05 %v/v	Water (K.F.)	≤ 3 g/l	Origin (BSE/TSE)	Synthesis
Appearance of solution	Conform Ph. Eur.	Impurity C	≤ 2 ppm (v/v)	Residue on evaporation	≤ 40 ppm(p/v)	Residual solvents (Current ICH)	Conform
Acidity or alcalinity	Conform Ph.Eur.	Other impurities (GC)	≤ 0.05 %(v/v)	Assay (GLC)	≥ 99 %		

Code	Size	Packaging	Notes
301505	1 l	Glass bottle	
301506	2.5 l	Glass bottle	
301502	5 l	Aluminium can	
301503	5 l	Plastic tank	
301501	16 kg	Plastic tank	
301504	22 kg	Metal drum	
301507	160 kg	Metal drum	

Acetone > RE - Pure

RE

Description	Clear liquid	Density at 20°C	0.788÷0.792	Water (K.F.)	≤0.25 % m/m	Assay (GLC)	≥99.8 % (GLC)
Colour	≤10 APHA	Refractive index at 20°C	1.3601÷1.3581	Residue on evaporation	≤15 ppm	Acidity (acetic acid)	≤ 200 ppm
Identity (IR)	Positive	Boiling point	55.7÷56.7 °C	Water miscibility	Complete	Diacetyl alcohol	≤ 500 ppm

Code	Size	Packaging	Notes
508200	1 l	Glass bottle	
508201	2.5 l	Glass bottle	
528203	5 l	Plastic tank	
528206	10 l	Plastic tank	
528201	25 l	Plastic tank	
528204	200 l	Metal drum	

Acetone-d6

Acetone-d6 • Acétone-d6 • Acetona-d6

Synonym: *Hexadeuteroacetone*

CD_3COCD_3
Molecular Weight: 64,12
CAS: 666-52-4
EEC-N: 211-563-9

Classification transport
ONU: 1090
Transport Hazard class: 3
Packing group II

Danger
H225-H319-H336-HEU066
P210-P241-P280-P303+P361+P353-P403+P235-P501a

Acetone-d6 > RS - For NMR - min 99.8%

RS

Code	Size	Packaging	Notes
P5049	10 x 0.75 ml	Glass ampoule	
P5044A	10 ml	Glass ampoule	
P5044S	5 x 10 ml	Bottle with septum	
P5045	25 ml	Glass bottle	
P5046	100 ml	Glass bottle	

Acetone-d6 > RS - For NMR - min 99.96%

RS

Code	Size	Packaging	Notes
P5060	10 x 0.6 ml	Glass ampoule	

Acetonitrile

Acetonitrile • Acétonitrile • Acetonitrilo

Synonym: *Methyl cyanide*

CH_3CN
Molecular Weight: 41,05
CAS: 75-05-8
EEC-N: 200-835-2

Classification transport
ONU: 1648
Transport Hazard class: 3
Packing group II

Danger
H225-H302-H312-H332-H319
P210-P241-P264-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

Acetonitrile > RS - For UHPLC-MS

RS

Description ..... Clear colourless liquid
Colour ..... ≤ 5 APHA
Identification (I.R.) ..... Positive
Refractive index at 20°C ..... 1.342 - 1.346
Residue on evaporation ..... ≤ 1 ppm
Acidity ..... ≤ 0.0003 meq/g
Alkalinity ..... ≤ 0.0002 meq/g
Assay (CPG) ..... ≥ 99.99 %
Water (K.F.) ..... ≤ 100 ppm

Transmittance
At 191 nm ..... ≥ 40 %
At 195 nm ..... ≥ 80 %
At 200 nm ..... ≥ 95 %
At 215 nm ..... ≥ 97 %
≥ 230 nm ..... ≥ 99 %

Absorbance
At 220 nm ..... ≤ 0.007 AU
At 254 nm ..... ≤ 0.005 AU

Fluorescence (quinine)
At 365 nm ..... ≤ 0.5 ppb
At 450 nm ..... ≤ 0.5 ppb

UHPLC gradient peak
At 210 nm ..... ≤ 0.4 mAU
Drift at 210 nm ..... ≤ 6 mAU
Drift at 254 nm ..... ≤ 2 mAU

Test LC-MS TIC (50-2000m/z) ES I(+)
Sensitive Impurities (reserpine) ..... ≤ 30 ppb

Metals compounds
Al ..... ≤ 20 ppb
Fe ..... ≤ 20 ppb
Na ..... ≤ 50 ppb
Ca ..... ≤ 50 ppb
Mg ..... ≤ 20 ppb
K ..... ≤ 50 ppb

Code	Size	Packaging	Notes
412041	1 l	Glass bottle	
412042	2.5 l	Glass bottle	

Acetonitrile > RS - For LC/MS

RS

Description ..... Clear colourless liquid
Colour ..... ≤ 10 APHA
Identification (I.R.) ..... Conform
Refractive index at 20°C ..... 1.342 ÷ 1.346
Residue on evaporation ..... ≤ 2 ppm
Acidity ..... ≤ 0.0005 meq/g
Alkalinity ..... ≤ 0.0002 meq/g
Assay (GLC) ..... ≥ 99.95 %

Transmission UV (1cm, ref water)
At 195 nm ..... ≥ 80 %
At 200 nm ..... ≥ 95 %
At 220 nm ..... ≥ 98 %
≥ 230 nm ..... ≥ 99 %

Fluorescence (quinine)
At 254 nm ..... ≤ 1 ppb
At 365 nm ..... ≤ 0.5 ppb

HPLC gradient
At 210 nm ..... ≤ 1 mAU

Test LC-MS TIC (50-2000m/z) ESI (+)
Sensitive Impurities (reserpine) ..... ≤ 50 ppb

Metals compounds
Al ..... ≤ 50 ppb
Fe ..... ≤ 50 ppb
Na ..... ≤ 50 ppb
Ca ..... ≤ 50 ppb
Mg ..... ≤ 50 ppb
K ..... ≤ 50 ppb
Water (K.F.) ..... ≤ 100 ppm

Code	Size	Packaging	Notes
412341	1 l	Glass bottle	
412342	2.5 l	Glass bottle	

Filtered through 0.1 µm membrane.

Acetonitrile > RS - For HPLC - GOLD - Ultragradient grade

RS

Description ..... Clear liquid
Colour (APHA) ..... ≤ 10
Identification ..... Positive
Miscb. with Acetone ..... Conform
Water miscibility ..... Conform
Miscibility in ether ..... Conform
Miscibility in methanol ..... Conform
Density at 20°C ..... 0.781 ÷ 0.785
Refractive index at 20°C ..... 1.342 ÷ 1.344
Distillation range ..... 80.5 ÷ 82.5 °C
Water (KF) ..... ≤ 100 ppm
Residue on evaporation ..... ≤ 2 ppm
Acidity ..... ≤ 0.0003 meq/g
Alcalinity ..... ≤ 0.0002 meq/g
Assay (GLC) ..... ≥ 99.9 %
Fluorescence (quinine)
At 254 nm ..... ≤ 1 ppb
At 365 nm ..... ≤ 0.5 ppb
At 450 nm ..... ≤ 0.5 ppb
Absorbance
At 190 nm ..... ≤ 0.6 AU
At 200 nm ..... ≤ 0.03 AU
At 220 nm ..... ≤ 0.007 AU
Transmittance
At 195 nm ..... ≥ 80 %
At 228 nm ..... ≥ 99 %
From 230 to 420 nm ..... ≥ 99 %
Functionality for HPLC
At 210 nm ..... ≤ 1 mAU
drift at 210 nm ..... ≤ 12 mA.U.
HPLC Gradient ..... Passed test
UV cut off ..... ≤ 190 nm

Code	Size	Packaging	Notes
412371000	1 l	Glass bottle	
412372000	2.5 l	Glass bottle	
412374	4 l	Glass bottle	

Filtered through 0.1 µm membrane

Acetonitrile > RS - For HPLC PLUS Gradient grade - ACS - Reag.Ph.Eur. - Reag.USP

RS

Description ..... Clear colourless liquid
Colour (APHA) ..... ≤ 10
Identification ..... Positive
Density at 20° C ..... 0.781 ÷ 0.785
Refractive index at 20°C . 1.3420 ÷ 1.3440
Distillation range 95% distils between 80 ÷ 82 °C
Titrable acid ..... ≤ 0.0008 meq/g
Titrable base ..... ≤ 0.0002 meq/g
Residue on evaporation ..... ≤ 0.0002 %
Water (K.F.) ..... ≤ 0.01 %
Litmus paper test ..... Conform
Assay (GLC) ..... ≥ 99.9 %
Fluorescence
at 254 nm ..... ≤ 1 ppb
at 365 nm ..... ≤ 0.5 ppb
at 450 nm ..... ≤ 0.5 ppb
U.V. Transmittance
at 195 nm ..... ≥ 79 %
at 200 nm ..... ≥ 90 %
at 210 nm ..... ≥ 95 %
at 220 nm ..... ≥ 98 %
From 240 to 420 nm ..... ≥ 98 %
Absorbance
At 190 nm ..... ≤ 1.00 AU
Absorbance ACS ..... Pass test
Gradient elution ACS ..... pass test
Functionality for HPLC

Code	Size	Packaging	Notes
412393	1 l	Glass bottle PVC coated	
412391000	1 l	Glass bottle	
412392000	2.5 l	Glass bottle	
412395	5 l	Aluminium can	

Filtered through 0.2 µm membrane

Acetonitrile > RS - For HPLC - Isocratic Grade

RS

Description ..... Clear colourless liquid
Identification ..... Positive
Water content (K.F.) ..... ≤ 0.03 % m/m
Density at 20° C ..... 0.781 ÷ 0.785
Iodometric test ..... Conform
Refractive index at 20°C . 1.3420 ÷ 1.3440
Boiling point ..... 81.1 ÷ 82.1 ° C
Acidity or alkalinity ..... ≤0.0008 meq/g
Residue on evaporation ..... ≤2 ppm
Assay (GLC) ..... ≥99.9 %
U.V. Transmittance
At 197 nm ..... ≥ 82 %
at 200 nm ..... ≥85 %
at 205 nm ..... ≥89 %
at 210 nm ..... ≥92 %
at 220 nm ..... ≥94 %
at 230 nm ..... ≥98 %
at 240 nm ..... ≥99 %
Fluorescence quinine 254 nm ..... ≤ 1 ppb

Code	Size	Packaging	Notes
412411000	1 l	Glass bottle	
412412000	2.5 l	Glass bottle	

Filtered through 0.2 µm membrane

Acetonitrile > RS - For HPLC 230

RS

Appearance ..... Clear colourless liquid
Refractive index at 20°C ..... 1.342 - 1.346
Density d20/20 ..... 0.780 - 0.785
Boiling point ..... 80.0 - 82.5 °C
Colour ..... ≤ 10 Hazen
Non volatile residue ..... ≤ 5 mg/Kg
Free acid (as CH3COOH) ..... ≤ 20 mg/Kg
Assay (GC) ..... ≥ 99.9 %
UV transmittance at 230 nm ..... ≥ 80 %
UV transmittance at 250 nm ..... ≥ 98 %

Code	Size	Packaging	Notes
P00637S16	1 l	Glass bottle	
P00637S21	2.5 l	Glass bottle	

Acetonitrile > RS - For preparative HPLC

RS

Description ..... Clear colourless liquid
Identification ..... Positive
Colour ..... ≤10 APHA
Density at 20° C ..... 0.781 ÷ 0.785
Refractive index at 20°C . 1.3420 ÷ 1.3440
Boiling point ..... 81.1 ÷ 82.1 ° C
Acidity or alkalinity ..... ≤0.0008 meq/g
Water (K.F.) ..... ≤300 ppm
Residue on evaporation ..... ≤5 ppm
Assay (GLC) ..... ≥99.9 %
U.V. Transmittance
at 230 nm ..... ≥50 %
at 250 nm ..... ≥98 %

Code	Size	Packaging	Notes
412409	2.5 l	Glass bottle	
412407	23 l	Metal drum	

Acetonitrile > RS - PESTIPUR - For pesticide analysis

RS

Description ..... Clear liquid
Colour ..... ≤ 10 hazen
Identification ..... Positive
Water ..... ≤ 0.03 %
Acidity (acetic acid) ..... ≤ 20 ppm
Not volatile residue ..... ≤ 5 ppm
GC-ECD (Lindano) ..... ≤ 3 ng/l
Assay (GLC) ..... ≥ 99.9 %

Code	Size	Packaging	Notes
401241	1 l	Glass bottle	
401242	2.5 l	Glass bottle	

Acetonitrile > RS - SPECTROSOL - For optical spectroscopy - Reag.Ph.Eur.

RS

Description ..... Clear colourless liquid
Density at 20° C ..... 0.781 ÷ 0.785
Refractive index at 20°C . 1.3410 ÷ 1.3450
Litmus paper test ..... Conform
Distillation range 95% distils between ..... 80 - 82 °C
Acidity or alkalinity ..... ≤0.0008 meq/g
Water (K.F.) ..... ≤300 ppm
Residue on evaporation ..... ≤5 ppm
Assay (GLC) ..... ≥99.9 %
Fluorescence
at 254 nm ..... ≤1 ppb
U.V. Transmittance
at 200 nm ..... ≥90 %
at 210 nm ..... ≥94 %
at 220 nm ..... ≥96 %
Colour ..... ≤ 10 APHA
at 230 nm ..... ≥98 %
Identification ..... Positive
UV Absorbance from 255 nm to 420 nm.. ≤ 0.01 AU

Code	Size	Packaging	Notes
401216	1 l	Glass bottle	
401212	2.5 l	Glass bottle	

Acetonitrile > RS - Anhydrous - For analysis

RS

Appearance ..... Clear colourless liquid
Refractive index at 20°C ..... 1.342 - 1.346
Identification (IR) ..... Conform
Boiling point ..... 80.0 - 82.5 °C
Water content (K.F.) ..... ≤ 100 mg/Kg
Non volatile residue ..... ≤ 10 mg/Kg
Colour ..... ≤ 10 Hazen
Assay (GC) ..... ≥ 99.9 %
Free acid (as CH3COOH) ..... ≤ 20 mg/Kg
Density d20/20 ..... 0.780 - 0.785
Iron (Fe) ..... ≤ 0.5 mg/Kg
Copper (Cu) ..... ≤ 0.5 mg/kg
Free alkali ..... ≤ 0.0003 meq/g
Propionitrile ..... ≤ 300 mg/Kg

Code	Size	Packaging	Notes
P0061010	200 ml	Bottle with septum	
P00610S10	200 ml	Bottle with septum	Water content < 50 ppm
P00610T10	200 ml	Bottle with septum	On molecular sieves 3A
P0061016	1 l	Glass bottle	
P00610S16	1 l	Glass bottle	Water content < 50 ppm
P0061021	2.5 l	Glass bottle	
P00610S21	2.5 l	Glass bottle	Water content < 50 ppm

Acetonitrile > RS - For peptide synthesis

RS

Appearance ..... Clear colourless liquid
Refractive index at 20°C ..... 1.342 - 1.346
Density d20/20 ..... 0.780 - 0.785
Boiling point ..... 80.0 - 82.5 °C
Water content (K.F.) ..... ≤ 30 mg/Kg
Colour ..... ≤ 10 Hazen
Assay (GC) ..... ≥ 99.9 %
Non volatile residue ..... ≤ 5 mg/Kg

Code	Size	Packaging	Notes
P0063510	200 ml	Bottle with septum	
P0063516	1 l	Glass bottle	
P0063521	2.5 l	Glass bottle	

Acetonitrile > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 20° C ..... 0.781 ÷ 0.785
Refractive index at 20°C . 1.3410 ÷ 1.3450
Distillation range 95% distils between ..... 80 - 82 °C
Water (K.F.) ..... ≤ 500 ppm
Residue on evaporation ..... ≤10 ppm
Ca ..... ≤0.05 ppm
Cu ..... ≤0.05 ppm
Fe ..... ≤0.2 ppm
K ..... ≤0.05 ppm
Mg ..... ≤0.05 ppm
Na ..... ≤1 ppm
Pb ..... ≤0.05 ppm
Zn ..... ≤0.5 ppn
Assay (GLC) ..... ≥99.8 %
Colour (APHA) ..... ≤10
Acidity ..... ≤8 µeq/g
Alcalinity ..... ≤0.6 µeq/g
Litmus paper test ..... Conform

Code	Size	Packaging	Notes
401183000	1 l	Glass bottle	
401185000	2.5 l	Glass bottle	

Acetonitrile > RE - Pure

RE

Appearance ..... Clear colourless liquid
Refractive index at 20°C ..... 1.342 - 1.346
Identification (IR) ..... Conform
Colour ..... Colourless
Density d20/20 ..... 0.780 - 0.785
Boiling point ..... 80.0 - 82.5 °C
Water content (K.F.) ..... ≤ 500 mg/Kg
Free acid (as CH3COOH) ..... ≤ 20 mg/Kg
Non volatile residue ..... ≤ 20 mg/Kg
Assay (GC) ..... ≥ 99.9 %

Code	Size	Packaging	Notes
P0060228	5 l	Plastic tank	
P0060248	25 l	Metal drum	
P0060268	200 l	Metal drum	

Acetonitrile + 0.1% v/v formic acid

Acetonitrile + 0.1% v/v acido formico • Acétonitrile + 0.1% v/v d'acide formique • Acetonitrile + 0.1% v/v acido formico

CH_3CN
Molecular Weight: 41,05
CAS: 75-05-8

Classification transport
ONU: 1993
Transport Hazard class: 3
Packing group II

Danger
H225-H302-H312-H332-H319
P210-P241-P264-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

Acetonitrile + 0.1% v/v formic acid > RS - For LC/MS

RS

Description ..... Clear colourless liquid
Colour ..... ≤ 10 APHA
Acidity (formic acid) ..... 0.095 ÷ 0.105 %
HPLC Gradient
At 254 nm ..... ≤ 50 mAU

Transmittance
At 210 nm ..... ≥ 5 %
At 230 nm ..... ≥ 15 %
Assay (CPG) ..... ≥ 99.5 %
Test LC-MS TIC (100-2000m/z)
Sensitive Impurities (reserpine) ..... ≤ 50 ppb

Metals content
Al ..... ≤ 0.5 ppm
Fe ..... ≤ 0.5 ppm
Ca ..... ≤ 0.5 ppm
Mg ..... ≤ 0.5 ppm
Na ..... ≤ 2 ppm
K ..... ≤ 0.5 ppm

Raw material used
Acetonitrile LC-MS(code 412342) ..... Batch number
Formic acid 98-99% (code 405820) . Batch number

Code	Size	Packaging	Notes
412331	1 l	Glass bottle	
412332	2.5 l	Glass bottle	

Acetonitrile + 0.1% v/v trifluoroacetic acid

Acetonitrile + 0.1% v/v acido trifluoroacetico • Acétonitrile + 0.1% v/v d'acide trifluoroacétique • Acetonitrile + 0.1% v/v acido trifluoroacético

CH_3CN
Molecular Weight: 41,05
CAS: 75-05-8

Classification transport
ONU: 1648
Transport Hazard class: 3
Packing group II

Danger
H225-H312-H332-H319
P210-P241-P264-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

Acetonitrile + 0.1% v/v trifluoroacetic acid > RS - For LC/MS

RS

Description ..... Clear colourless liquid
Assay (GC) (without TFA) ..... ≥ 99.9 %
Trifluoroacetic acid content 0.095 - 0.105 % (V/V)
Water (K.F.) ..... ≤ 150 ppm
Residue on evaporation ..... ≤ 2 ppm

UV transmittance (1 cm , ref. water)
At 195 nm ..... ≥ 20 %
At 230 nm ..... ≥ 50 %
At 254 nm ..... ≥ 90 %
At 260 nm ..... ≥ 95 %
Fluorescence (quinine)
At 365 nm ..... ≤ 0.5 ppb

HPLC gradient
Drift at 254 nm ..... ≤ 30 mAU
Test LC-MS TIC (50-2000m/z) ES I(+)
Sensitive Impurities (reserpine) ..... ≤ 50 ppb
Metals compounds
Al ..... ≤ 30 ppb
Fe ..... ≤ 50 ppb
Na ..... ≤ 50 ppb
Ca ..... ≤ 50 ppb
Mg ..... ≤ 30 ppb
K ..... ≤ 50 ppb

Code	Size	Packaging	Notes
412321	1 l	Glass bottle	
412322	2.5 l	Glass bottle	

Acetonitrile-d3

Acetonitrile-d3 • Acétonitrile-d3 • Acetonitrilo-d3

Synonym:
Trideuteroacetonitrile

CD_3CN
Molecular Weight: 44,07
CAS: 2206-26-0
EEC-N: 218-616-5

Classification transport
ONU: 1648
Transport Hazard class: 3
Packing group II

Danger
H225-H302-H312-H332-H319
P210-P241-P301+P310-P303+P361+P353-P310-P361-P403+P235-P405-P501a

Acetonitrile-d3 > RS - For NMR - min 99.8%

RS

Code	Size	Packaging	Notes
P5070	2 x 0.6 ml	Glass ampoule	
P5079	10 x 0.75 ml	Glass ampoule	
P5073A	6 ml	Glass ampoule	

Acetophenone
Acetofenone • Acétophénone • Acetofenona

Synonym:
Methyl phenyl ketone

$C_6H_5COCH_3$
Molecular Weight: 120,15
CAS: 98-86-2
EEC-N: 202-708-7

Warning
H302-H319
P264-P280i-P305+P351+P338-P330-P337+P313-P301+P312a

Acetophenone > RE - Pure
RE

Description ..... Yellow colourless liquid
Identification ..... Positive
Density at 20° C ..... 1.018 ÷ 1.038
Refractive index at 20°C ..... 1.5283 ÷ 1.5383
Boiling point ..... 200.5 ÷ 203.5 ° C
Assay (GLC) ..... ≥ 99.0 %

Code	Size	Packaging	Notes
301251	1 l	Glass bottle	

Acetylacetone
2,4-Pentandione • Acetylacétone • 2,4-Pentadiona

Synonym:
2,4-Pentanedione
Diacetylmethane

$CH_3COCH_2COCH_3$
Molecular Weight: 100,12
CAS: 123-54-6
EEC-N: 204-634-0

Classification transport
ONU: 2310
Transport Hazard class: 3
Packing group III

Danger
H226-H302-H311+H331
P210-P241-P264-P303+P361+P353-P304+P340-P403+P235

Acetylacetone > RPE - For analysis
RPE

Description ..... Clear liquid
Identification (I.R.) ..... Conform
Water miscibility ..... Conform
Density at 20° C ..... 0.971 ÷ 0.981
Refractive index at 20°C . 1.4510 ÷ 1.4540
Water (K.F.) ..... ≤0.1 %
Residue on evaporation ..... ≤100 ppm
Assay (GLC) ..... ≥99.5 %

Code	Size	Packaging	Notes
400305	100 ml	Glass bottle	
400307	1 l	Glass bottle	

n-Acetylcysteine
N-Acetil-L-cisteina • n-Acétylcystéine • n-Acetil-L-cisteína

Synonym:
LNAC

$HSCH_2CH(NHCOCH_3)COOH$
Molecular Weight: 163,19
CAS: 616-91-1
EEC-N: 210-498-3

n-Acetylcysteine > RPE - For analysis
RPE

Description ..... White crystals
Identification ..... Positive
Ash ..... < 0.5 %
Assay (acidimetric) ..... > 97.5 %

Code	Size	Packaging	Notes
400522	100 g	Glass bottle	

p-Acetylphenetidine
p-Acetilfenetidina • p-Acétylphénétidine • p-Acetilfenetidina

Synonym:
Phenacetin
Acetophenelide

$C_2H_5OC_6H_4NHCOCH_3$
Molecular Weight: 179,22
CAS: 62-44-2
EEC-N: 200-533-0

Warning
H302-H312-H332
P264-P271-P261-P280h-P304+P340-P330

p-Acetylphenetidine > RE - Pure
RE

Description ..... White crystalline powder
Identification ..... Positive
Melting point ..... 133 ÷ 138 ° C
Assay (HPLC) ..... > 96.0 %

Code	Size	Packaging	Notes
300857	1 kg	Plastic bottle	

1-Acetyl-2-phenylhydrazine
Acetil-2-fenilidrazina • Acétyl-2-phenylhydrazine • Acetil-2-fenilhidracina

$C_6H_5NHNHCOCH_3$
Molecular Weight: 150,18
CAS: 114-83-0
EEC-N: 204-055-3

Danger
H301-H312-H332
P264-P271-P280-P304+P340-P301+P310a-P312a

1-Acetyl-2-phenylhydrazine > RPE - For analysis
RPE

Description ..... White crystalline powder Identification ..... Positive Melting point..... 128 ÷ 132 ° C Assay ..... ≥ 97.5 %

Code	Size	Packaging	Notes
400672	25 g	Glass bottle	

Acid Red 51 ▶ Erythrosin extra B

Acid Red 87 ▶ Eosin Y

Acid Red 91 ▶ Eosin B

Acid Violet 19 ▶ Fuchsin acid

Acid Yellow 73 ▶ Fluorescein

Acridine orange
Arancio acridina • Orange acridine • Anaranjado de acridina

Synonym:
3,6-Bis(dimethylamino)acridine hydrochloride

$C_{17}H_{20}ClN_3$
Molecular Weight: 301,82
CAS: 65-61-2
EEC-N: 200-614-0

Acridine orange > RS - For microscopy - C.I. 46005
RS

Description ..... Orange powder Identification ..... Positive

Code	Size	Packaging	Notes
423461	25 g	Plastic jar	

ADF Solution
Soluzione ADF • Solution ADF • Solución ADF

Classification transport
ONU: 1760
Transport Hazard class: 8
Packing group III

Danger
H315-H318
P264-P280-P305+P351+P338-P332+P313-P302+P352a-P321

ADF Solution > RPE - For analysis
RPE

Density at 20°C ..... 1.020 ÷ 1.040

Code	Size	Packaging	Notes
526625	2.5 l	Glass bottle	
526623	10 l	Plastic tank	

Composition : Trimethylcethylammonium bromure : 20 g Sulfuric acid 1N: QSP 1 L according to NF V18-122

Adipic acid
Acido adipico • Acide adipique • Acido adípico

Synonym:
Hexanedioic acid

$HOOC(CH_2)_4COOH$
Molecular Weight: 146,14
CAS: 124-04-9
EEC-N: 204-673-3

Warning
H319
P264-P280i-P305+P351+P338-P337+P313

Adipic acid > RPE - For analysis
RPE

Description ..... White crystalline powder
Identification ..... Positive
Solution colour ..... ≤ 5 APHA
Melting point..... 151 ÷ 153 °C
Water ..... ≤ 0.2 %
Residue on ignition..... ≤ 0.0002 %
HNO3 ..... ≤ 4 ppm
Assay (acidimetric) ..... ≥ 99 %

Code	Size	Packaging	Notes
401785	250 g	Plastic bottle	
401787	2.5 kg	Plastic bottle	

Albumin from eggs powder
Albumina d'uovo polvere • Albumine d'oeuf poudre • Albúmina de huevo polvo

CAS: 9006-59-1
EEC-N: 232-692-7

Albumin from eggs powder > RE - Pure
RE

Description ..... White powder yellowish
Identification ..... Positive
pH..... 6.0 ÷ 8.0
Water (K.F.) ..... ≤ 8.0 %

Code	Size	Packaging	Notes
413671	1 kg	Plastic jar	
413672	5 kg	Plastic jar	

Albumin from eggs, dried
Albumina d'uovo secca • Albumine doeuf sèche • Albúmina de huevo desecada

CAS: 9006-59-1
EEC-N: 232-692-7

Albumin from eggs, dried > RS - For biochemistry
RS

Description ..... White powder yellowish
Identification ..... Positive

Code	Size	Packaging	Notes
413654	100 g	Plastic bottle	
413656	500 g	Plastic bottle	

Alcian Blue 8GS 1%
Blu alcian 8GS 1% • Bleu alcian 8GS 1% • Azul de alcian 8GS 1%

Synonym:
Ingrain Blue 1

$C_{56}H_{68}N_{16}CuS_4Cl_4$
Molecular Weight: 1298,88
CAS: 75881-23-1

Classification transport
ONU: 3264
Transport Hazard class: 8
Packing group III

Warning
H315-H319
P264-P280-P305+P351+P338-P332+P313-P337+P313-P302+P352a

Alcian Blue 8GS 1% > RS - For microscopy
RS

Description ..... Blue clear liquid
Identification ..... Positive
Assorbanza a 610 nm ..... 0.14 ÷ 0.18 AU

Code	Size	Packaging	Notes
428551	250 ml	Glass bottle	

Alcian blue 8GX

Blu alcian 8GX • Bleu alcian 8GX • Azul de alcian 8GX

Synonym:
Ingrain Blue 1

$C_{56}H_{68}N_{16}CuS_4Cl_4$
Molecular Weight: 1298.88
CAS: 33864-99-2
EEC-N: 251-705-7

Alcian blue 8GX > RS - For microscopy - C.I. 74240

RS

Description ..... Violet crystalline powder Identification ..... Positive

Code	Size	Packaging	Notes
428561	25 g	Glass bottle	

Dye for histochemistry

Alizarin

Alizarina • Alizarine • Alizarina

Synonym:
1,2-Dihydroxyanthraquinone
Mordant Red 11

$C_{14}H_8O_4$
Molecular Weight: 240,21
CAS: 72-48-0
EEC-N: 200-782-5

Warning
H302
P264-P270-P330-P301+P312a-P501a

Alizarin > RPE - For analysis - C.I. 58000

RPE

Description ..... Orange red powder Loss on drying ..... ≤2 % Assay ..... ≥96.0 %
Identification ..... Positive Alluminium sensitivity ..... ≥0.1 µg/ml

Code	Size	Packaging	Notes
415892	25 g	Glass bottle	

Dye for microscopy. Indicator acid - base (pH 5.8 to 7.2 - 11.0 to 13.0)

Alizarin red

Rosso alizarina • Rouge Alizarine • Rojo Alizarina

Synonym:
Alizarin sulfonic acid sodium salt
3,4-Dihydroxy-9,10-dioxo-2-anthracenesulfonic acid sodium salt

$C_{14}H_7NaO_7S$
Molecular Weight: 342,26
CAS: 130-22-3
EEC-N: 204-981-8

Alizarin red > RPE - For analysis - C.I. 58005

RPE

Description ..... Brown orange powder Identification ..... Positive Colour change ..... yellow violet pH range ..... 5.0 - 6.6

Code	Size	Packaging	Notes
416002	25 g	Glass bottle	

Alizarin saturated solution in ethanol

Alizarina soluzione satura in alcole etilico • Alizarine solution saturée dans l'éthanol • Alizarina solución saturada en alcohol etilico

Synonym:
1,2-Dihydroxyanthraquinone
Mordant Red 11

$C_{14}H_8O_4$
Molecular Weight: 240,21
CAS: 72-48-0

Classification transport
ONU: 1170
Transport Hazard class: 3
Packing group II

Danger
H225-H319
P210-P241-P264-P303+P361+P353-P305+P351+P338-P403+P235

Alizarin saturated solution in ethanol > RPE - For analysis

RPE

Description ..... Orange brown liquid Identification ..... Positive

Code	Size	Packaging	Notes
E415932	250 ml	Bottle	

Indicator acid - base. Indicator for absorption and complexometry. Saturated alcoholic solution

Alizarin yellow R
Giallo alizarina R • Jaune d'alizarine R • Amarillo de alizarina R

Synonym:
Mordant Orange 1
5-(4-Nitrophenylazo)salicylic acid

$C_{13}H_9N_3O_5$
Molecular Weight: 287,23
CAS: 2243-76-7
EEC-N: 218-818-3

Warning
H302-H319
P264-P280-P305+P351+P338-P330-P337+P313-P301+P312a

Alizarin yellow R > RPE - For analysis - C.I. 14030 — RPE

Description ..... Brown crystalline powder
Identification ..... Positive
Loss on drying ..... ≤15 %
Residue on ignition ..... 18.0 ÷ 28.0 %
Colour change ..... yellow-orange
E (1% ö 1 cm) a 492 nm ..... 700 ÷ 1000

Code	Size	Packaging	Notes
453451	10 g	Glass bottle	
453452	25 g	Glass bottle	

Alkali blue 6B
Blu alcali 6B • Bleu alcalin 6B • Azul de alcali 6B

Synonym:
Acid blue 10

$C_{37}H_{29}N_3O_3S$
Molecular Weight: 595,72
CAS: 1324-76-1
EEC-N: 215-385-2

Alkali blue 6B > RS - For microscopy - C.I. 42765 — RS

Description ..... Brown violet powder
Identification ..... Positive

Code	Size	Packaging	Notes
428532	25 g	Glass bottle	

Dye for cytology

Alkali Blue 6B solution 2% in ethanol
Blu alcali 6B soluzione 2% in alcole etilico • Bleu alcalin 6B solution 2% dans l'éthanol • Azul de alcali 6B solución 2% en alcohol etilico

Synonym:
Acid blue 10

$C_{32}H_{28}N_3NaO_4S$
Molecular Weight: 613,72
CAS: 1324-76-1

Classification transport
ONU: 1170
Transport Hazard class: 3
Packing group II

Danger
H225-H319
P210-P241-P264-P303+P361+P353-P305+P351+P338-P403+P235

Alkali Blue 6B solution 2% in ethanol > RPE - For analysis — RPE

Description ..... Blue liquid
Identification ..... Positive

Code	Size	Packaging	Notes
E428541	250 ml	Bottle	

Alkylbenzyldimethylammonium chloride ▶ Benzalkonium chloride

ß-Alanine
ß-Alanina • ß-Alanine • ß-Alanina

Synonym:
3-Aminopropionic acid

$NH_2CH_2CH_2COOH$
Molecular Weight: 89,09
CAS: 107-95-9
EEC-N: 203-536-5

ß-Alanine > RPE - For analysis — RPE

Description ..... White crystalline powder
Identification ..... Positive
Loss on drying ..... ≤ 0.5 %
Ammonium ..... ≤ 1000 ppm
Chloride ..... ≤ 400 ppm
Heavy metals (Pb) ..... ≤ 10 ppm
Residue on ignition ..... ≤ 0.2 %
Sulphate ..... ≤ 480 ppm
Fe ..... ≤ 30 ppm
Assay (non-aqueos medium) ..... ≥ 98.5 %

Code	Size	Packaging	Notes
413603	50 g	Glass bottle	

Allylthiourea

Alliltiourea • Allylthiourée • Aliltiourea

Synonym:
1-Allyl-2-thiourea
Thiosinamine

CH_2:$CHCH_2NHCSNH_2$
Molecular Weight: 116,19
CAS: 109-57-9
EEC-N: 203-683-5

Classification transport
ONU: 2811
Transport Hazard class: 6.1
Packing group III

Danger
H301
P264-P270-P301+P310a-P330-P321-P405

Allylthiourea > RPE - For analysis

RPE

Description .....White crystalline powder
Identification ..... Positive
Melting point..... 70 ÷ 78 ° C
Perdita essiccamento (50°C).....≤ 1.5 %
Assay (ex nitrogen) .....97.5 ÷ 102.5 %

Code	Size	Packaging	Notes
416281	25 g	Glass bottle	
416283	100 g	Glass bottle	

Almond oil ▶ Oil refined of almonds

Alumina ▶ Aluminum oxide

Alumina white

Allumina bianca • Alumine blanche • Alúmina blanca

Synonym:
Alumina

Al_2O_3
Molecular Weight: 101,96
CAS: 1344-28-1
EEC-N: 215-691-6

Alumina white > RS - For metallography (Medium metals)

RS

Description .....White suspension
Identification ..... Positive

Code	Size	Packaging	Notes
416531	120 g	Plastic bottle	

Aluminum standard solution

Alluminio standard soluzione • Aluminium standard solution • Aluminum, solución patrón

Classification transport
ONU: 3264
Transport Hazard class: 8
Packing group II

Danger
H290-H314
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Aluminum standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2

RS

Code	Size	Packaging	Notes
615000200	100 ml	Plastic bottle	A 200 ppm solution Ref Ph.Eur 5000200
615000201	100 ml	Plastic bottle	A 10 ppm solution : to dilute according to Ref Ph.Eur 5000201
615000202	100 ml	Plastic bottle	A 2 ppm solution : to dilute according to Ref Ph.Eur 5000202
615000203	100 ml	Plastic bottle	A 100 ppm solution : to dilute according to Ref Ph.Eur 5000203

Aluminum standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505307	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505308	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid
505309	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Aluminum standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
503411	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
503415	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrochloric acid
503413	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
503417	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrochloric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Aluminum standard solution > RS - Standard solution for AAS

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
504190	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
E497405	100 ml	Glass bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
E497401	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
504186	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Aluminum standard solution > RS - NORMEX - Concentrated solution for AAS

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
416581		Plastic vial	conc. 1.000 ppm Matrix : Nitric acid - Volume : 50 ml

Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package

Aluminum, powder

Alluminio, polvere • Aluminium, poudre • Aluminio, polvo

Al
Molecular Weight: 26,98
CAS: 7429-90-5
EEC-N: 231-072-3

Classification transport
ONU: 1309
Transport Hazard class: 4.1
Packing group II

Danger
H250-H261
P210-P223-P222-P231+P232-P280a-P422a

Aluminum, powder > RPE - For analysis

RPE

Description ..... Grey powder Cu ..... ≤ 0.03 % Zn ..... ≤ 0.08 %
Identification ..... Positive Fe ..... ≤ 0.6 % Assay (complexometric) ..... ≥ 95 %

Code	Size	Packaging	Notes
416817	1 kg	Metal bucket	
416815	25 kg	Plastic bucket	

Aluminum ammonium sulfate dodecahydrate

Alluminio ammonio solfato dodecaidrato • Aluminum ammonium sulfate dodécahydraté • Aluminio y amonio sulfato dodecahidrato

Synonym:
Sulfate dodecahydrate

$AlNH_4(SO_4)_2.12H_2O$
Molecular Weight: 453,34
CAS: 7784-26-1

Warning
H315-H319-H335
P264-P271-P304+P340-P305+P351+P338-P312a-P332+P313

Aluminum ammonium sulfate dodecahydrate > RPE - For analysis

RPE

Description ..... White crystals Identification ..... Positive Assay (complexometric) ..... ≥ 98.5 % Loss on drying (300°C)..... 45 ÷ 48 %

Code	Size	Packaging	Notes
416893	100 g	Plastic bottle	
416895	500 g	Plastic bottle	
416897	1 kg	Plastic bottle	
416892	25 kg	Plastic bucket	

Aluminum ammonium sulfate dodecahydrate > RE - Pure

RE

Description . White semitransparent crystals
Identification ..... Positive
Chloride.....≤50 ppm
Water-insoluble matter .....≤500 ppm
Heavy metals (Pb).....≤100 ppm
Fe .....≤30 ppm
Assay (complexometric) ..... ≥97 %

Code	Size	Packaging	Notes
311009	5 kg	Plastic jar	
311002	25 kg	Plastic bucket	
311004	50 kg	Plastic bucket	

Aluminum chloride anhydrous

Alluminio cloruro anidro • Aluminium chlorure anhydre • Aluminio cloruro anhidro

$AlCl_3$
Molecular Weight: 133,34
CAS: 7446-70-0
EEC-N: 231-208-1

Classification transport
ONU: 1726
Transport Hazard class: 8
Packing group II

Danger
H314
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Aluminum chloride anhydrous > RE - Pure

RE

Description ..... Yellowish powder
Identification ..... Positive
Heavy metals (Pb)..... ≤ 75 ppm
Fe ..... ≤ 100 ppm
Assay (complexometric) .....≥ 99.0 %

Code	Size	Packaging	Notes
416996	500 g	Glass bottle	

Aluminum chloride hexahydrate

Alluminio cloruro esaidrato • Aluminium chlorure hexahydraté • Aluminio cloruro hexahidrato

$AlCl_3.6H_2O$
Molecular Weight: 241,44
CAS: 7784-13-6
EEC-N: 231-208-1

Warning
H302-H315-H319
P264-P280g-P305+P351+P338-P330-P332+P313-P337+P313

Aluminum chloride hexahydrate > RPE - For analysis - Reag. Ph. Eur.

RPE

Description .....White crystals
Identification .....Positive
pH sol. 5% at 25° C .....2.5 ÷ 3.5
Sulphate .....≤ 50 ppm
Cd.....≤ 50 ppm
Cu.....≤ 50 ppm
Fe .....≤ 50 ppm
Zn .....≤ 50 ppm
Assay (complexometric) ..... ≥ 99 %
Ca.....≤ 100 ppm
Co.....≤ 50 ppm
K.....≤ 100 ppm
Na..... ≤ 0.05 %
Ni.....≤ 50 ppm
Pb.....≤ 50 ppm

Code	Size	Packaging	Notes
416942	100 g	Plastic bottle	
416943	500 g	Plastic bottle	
416947	1 kg	Plastic bottle	
416949	5 kg	Plastic jar	
416945	25 kg	Plastic bucket	

Aluminum chloride hexahydrate > ERBApharm - According to pharmacopoeia : Ph.Eur.-USP

ERBApharm

Description .....white or slightly yellow, crystalline powder
Identification A .....Positive
Identification B .....Positive
Appearance of solution .....Conform Ph. Eur.
Water (K.F.) .....42.0 ÷ 48.0 %
Alkali and alkaline-earth metals..... ≤ 0.5 %
Sulfate.....≤ 100 ppm
Heavy metals (Pb).....≤ 20 ppm
Fe .....≤ 10 ppm
Assay (complexometric) ....95.0 ÷ 101.0 %

Code	Size	Packaging	Notes
311257	1 kg	Plastic bottle	
311252	5 kg	Plastic jar	
311254	50 kg	Fibre drum	

Aluminum hydroxide

Alluminio idrossido • Aluminium hydroxyde • Aluminio hidróxido

$Al(OH)_3$
Molecular Weight: 78
CAS: 21645-51-2
EEC-N: 244-492-7

Warning
H319
P264-P280-P305+P351+P338-P337+P313

Aluminum hydroxide > RPE - For analysis

RPE

Description ..... White powder
Identification ..... Positive
Umidità (H2O) ..... ≤ 0.7 %
Silicate ..... ≤ 0.01 %
Fe2O3 ..... ≤ 100 ppm
Na2O (tot.) ..... ≤ 0.3 %
Assay (complexometric) ..... ≥ 99.5 %

Code	Size	Packaging	Notes
417046	500 g	Plastic bottle	
417047	1 kg	Plastic bottle	

Aluminum hydroxide > RE - Pure

RE

Description ..... White powder
Identification ..... Positive
Loss on ignition ..... 31 ÷ 36 %
Chloride ..... ≤300 ppm
Heavy metals (Pb) ..... ≤30 ppm
Sulphate ..... ≤500 ppm
Water solubility ..... ≤0.5 %
Fe ..... ≤200 ppm

Code	Size	Packaging	Notes
311734	1 kg	Plastic bottle	

Aluminum nitrate nonahydrate

Alluminio nitrato nonaidrato • Aluminium nitrate nonahydraté • Aluminio nitrato nonahydrate

$Al(NO_3)_3.9H_2O$
Molecular Weight: 375,13
CAS: 7784-27-2
EEC-N: 236-751-8

Classification transport
ONU: 1438
Transport Hazard class: 5.1
Packing group III

Danger
H272-H301-H315-H319
P221-P264-P210a-P280a-P305+P351+P338-P301+P310a

Aluminum nitrate nonahydrate > RPE - For analysis

RPE

Description ..... Semitransparent crystals
Identification ..... Positive
pH sol. 5% at 20°C ..... 2.5 ÷ 3.5
Chloride ..... ≤ 20 ppm
Sulphate ..... ≤ 50 ppm
Heavy metals (Pb) ..... ≤ 20 ppm
Fe ..... ≤ 20 ppm
Assay ..... ≥ 99 %

Code	Size	Packaging	Notes
417095	100 g	Plastic bottle	
417096	500 g	Plastic bottle	
417097	1 kg	Plastic bottle	

Aluminum nitrate nonahydrate > RE - Pure

RE

Description ..... Cristalli trasparenti
Identification ..... Positive
pH solution 5% ..... 2.5 ÷ 3.5
Chloride ..... ≤ 20 ppm
Heavy metals (Pb) ..... ≤ 20 ppm
Sulphate ..... ≤ 50 ppm
Fe ..... ≤ 20 ppm
Assay (complexometric) ..... ≥ 99 %

Code	Size	Packaging	Notes
312007	1 kg	Plastic bottle	
312008	5 kg	Plastic jar	
312001	25 kg	Plastic bucket	

Aluminum oxide

Alluminio ossido • Aluminium oxyde • Aluminio óxido

Synonym: *Alumina*

Al_2O_3
Molecular Weight: 101,96
CAS: 1344-28-1
EEC-N: 215-691-6

Aluminum oxide > RPE - For analysis - Reag. Ph.Eur.

RPE

Description	White powder	Subst. not ppt NH4OH	≤0.5 %	Cd	≤5 ppm	Zn	≤10 ppm
Identification	Positive	Loss on ignition	≤0.5 %	Cu	≤5 ppm	Assay (complexometric)	≥98.0 %
Total nitrogen	≤100 ppm	Sulphate	≤0.1 %	Fe	≤50 ppm		
Chloride	≤500 ppm	Water solubility	≤0.4 %	Na	≤0.3 %		
Heavy metals (Pb)	≤10 ppm	As	≤5 ppm	Pb	≤5 ppm		

Code	Size	Packaging	Notes
417144	100 g	Plastic bottle	
417145	250 g	Plastic bottle	
417146	500 g	Plastic bottle	
417147	1 kg	Plastic bottle	
417143	25 kg	Plastic bucket	

Aluminum oxide > RE - Pure

RE

Description	White powder	Fe2O3	≤ 250 ppm	Si	≤ 400 ppm
Identification	Positive	Na2O	≤ 0.25 %	Assay (complexometric)	≥ 99.5 %

Code	Size	Packaging	Notes
312258	2.5 kg	Plastic bucket	
312259	5 kg	Plastic jar	
312252	25 kg	Plastic bucket	

Aluminum oxide (acid)

Alluminio ossido (acido) • Aluminium oxyde (acide) • Aluminio óxido (ácido)

Synonym: *Alumina*

Al_2O_3
Molecular Weight: 101,96
CAS: 1344-28-1
EEC-N: 215-691-6

Aluminum oxide (acid) > RS - For chromatography according to Brockmann

RS

Description	White crystalline powder	Identification	Positive	Activity grade 1	Conform

Code	Size	Packaging	Notes
417185	250 g	Plastic bottle	
417182	1 kg	Plastic bottle	

Aluminum oxide (basic)

Alluminio ossido (basico) • Aluminium oxyde (basique) • Aluminio óxido (básico)

Synonym: *Alumina*

Al_2O_3
Molecular Weight: 101,96
CAS: 1344-28-1
EEC-N: 215-691-6

Aluminum oxide (basic) > RS - For chromatography according to Brockmann

RS

Description	White granular powder	Identification	Positive	Activity grade 1	Conform

Code	Size	Packaging	Notes
417214	100 g	Plastic bottle	
417217	1 kg	Plastic bottle	

Aluminum oxide (neutral)

Alluminio ossido (neutro) • Aluminium oxyde (neutre) • Aluminio óxido (neutro)

Synonym: *Alumina*

Al_2O_3
Molecular Weight: 101,96
CAS: 1344-28-1
EEC-N: 215-691-6

Aluminum oxide (neutral) > RS - For chromatography according to Brockmann

RS

Description ..... White granular powder
Identification ..... Positive
Activity grade 1 ..... Conform
pH sospension 10% H2O ..... 6.5 ÷ 7.5
Fe2O3 ..... ≤ 0.03 %
SiO2 ..... ≤ 0.03 %
Na2O ..... ≤ 0.4 %

Code	Size	Packaging	Notes
417245	250 g	Plastic bottle	
417241	1 kg	Plastic bottle	
417248	2.5 kg	Plastic bottle	

Aluminum oxide activated

Alluminio ossido attivo • Aluminium oxyde actif • Aluminio óxido activo

Synonym: *Alumina*

Al_2O_3
Molecular Weight: 101,96
CAS: 1344-28-1
EEC-N: 215-691-6

Aluminum oxide activated > RE - Pure

RE

Description ..... Whitish granules
Identification ..... Positive
Diameter ..... 0.1 ÷ 0.5 mm

Code	Size	Packaging	Notes
312261	1 kg	Plastic bottle	

Aluminum potassium sulfate dodecahydrate

Alluminio potassio solfato dodecaidrato • Aluminium potassium sulfate dodécahydraté • Aluminio y potasio sulfato dodecahidrato

Synonym: *Potassium aluminum sulfate dodecahydrate*

$AlK(SO_4)_2.12H_2O$
Molecular Weight: 474,39
CAS: 7784-24-9

Aluminum potassium sulfate dodecahydrate > RPE - For analysis - ACS

RPE

Description ..... White crystals
Identification ..... Positive
Water-insoluble matter ..... ≤50 ppm
Ammonium ..... ≤50 ppm
Chloride ..... ≤5 ppm
Heavy metals (Pb) ..... ≤10 ppm
Fe ..... ≤10 ppm
Na ..... ≤200 ppm
Assay (complexometric) ..... 98.0 ÷ 102.0 %

Code	Size	Packaging	Notes
417295	100 g	Plastic bottle	
417296	500 g	Plastic bottle	
417297	1 kg	Plastic bottle	

Aluminum potassium sulfate dodecahydrate > ERBApharm - According to pharmacopoeia : Ph.Eur.-USP-FU-Ph.Franc.-BP

ERBApharm

Description ..... White crystalline powder
Identification ..... Positive
Appearance of solution ..... Conform Ph.Eur.
pH 10% at 25° C ..... 3.0 ÷ 3.5
Loss on drying ..... 43.0 ÷ 46.0 %
Ammonium ..... ≤ 0.2 %
Heavy metals (Pb) ..... ≤ 20 ppm
Fe ..... ≤ 100 ppm
Assay (complexometric) ..... 99.0 ÷ 100.5 %

Code	Size	Packaging	Notes
312401	1 kg	Plastic bottle	
312404	5 kg	Plastic jar	
312402	10 kg	Plastic jar	

Aluminum potassium sulfate dodecahydrate > RE - Pure

RE

Description ..... White crystalline powder
Identification ..... Positive
Water-insoluble matter ..... ≤ 500 ppm
Heavy metals (Pb) ..... ≤ 50 ppm
Fe ..... ≤ 300 ppm
Assay (complexometric) ..... ≥ 97 %

Code	Size	Packaging	Notes
312508	2.5 kg	Plastic bottle	

Aluminum sulfate

Alluminio solfato • Aluminium sulfate • Aluminio sulfato

$Al_2(SO_4)_3.18H_2O$
Molecular Weight: 666,43
CAS: 7784-31-8
EEC-N: 233-135-0

Danger
H318
P280-P305+P351+P338-P310a

Aluminum sulfate > RPE - For analysis - ACS

RPE

Description ..... White crystals
Identification ..... Positive
Ca ..... ≤ 100 ppm
Water-insoluble matter ..... ≤ 100 ppm
Heavy metals (Pb) ..... ≤ 10 ppm
Chloride ..... ≤ 50 ppm
Fe ..... ≤ 20 ppm
Assay (complexometric) .... 98.0 ÷ 102.0 %
K ..... ≤ 50 ppm
Mg ..... ≤ 20 ppm
Na ..... ≤ 0.02 %

Code	Size	Packaging	Notes
417424	100 g	Plastic bottle	
417425	500 g	Plastic bottle	
417427	1 kg	Plastic bottle	

Aluminum sulfate > RE - Pure

RE

Description ..... White crystals
Identification ..... Positive
Heavy metals (Pb) ..... ≤50 ppm
Fe ..... ≤100 ppm
Assay (complexometric) ..... 16 ÷ 18 %(Al2O3)

Code	Size	Packaging	Notes
312753	5 kg	Plastic jar	
312752	10 kg	Plastic tank	
312751	25 kg	Plastic bucket	

Amidoschwarz 10B solution

Amido nero 10B in soluzione • Noir amido 10B solution • Negro Amido 10B solucion

CAS: 1064-48-8

Warning
H319
P264-P280-P305+P351+P338-P337+P313

Amidoschwarz 10B solution > RS - For agroalimentary analysis

RS

Density at 20°C ..... 1.006 ÷ 1.012
pH at 20°C ..... 2.30 ÷ 2.50
Absorbance (sol 1/100)
at 620 nm ..... 0.700 ÷ 0.730 AU

Code	Size	Packaging	Notes
502050	5 l	Plastic tank	
502051	10 l	Plastic tank	

4-Aminoantipyrine ▶ 4-Aminophenazon

p-Aminobenzenesulfonamide ▶ Sulfanilamide

4-Aminobenzenesulfonic acid ▶ Sulfanilic acid

p-Aminobenzoic acid

Acido p-amminobenzoico • Acide p-aminobenzoique • Acido p-aminobenzoico

Synonym:
4-Aminobenzoic acid
PABA

$H_2NC_6H_4COOH$
Molecular Weight: 137,14
CAS: 150-13-0
EEC-N: 205-753-0

Warning
H302-H315-H319-H317-H335
P264-P271-P280-P304+P340-
P305+P351+P338-P330

p-Aminobenzoic acid > ERBApharm - According to pharmacopoeia : USP

ERBApharm

Description	Yellowish powder	Melting point	186 ÷ 189 °C	Volat. diazotizable sub	≤20 ppm
Identification	Positive	Loss on drying	≤0.2 %	Heavy metals (Pb)	≤20 ppm
Ordinary impurities	Conform USP-NF	Sulphated ash	≤0.1 %	Assay (acidimetric)	98.5 ÷ 100.5 % s.s.

Code	Size	Packaging	Notes
391804	100 g	Plastic bottle	
391805	1 kg	Plastic bottle	

Aminocyclohexane ▶ Cyclohexylamine

2-Aminoethanol ▶ Ethanolamine

2-Aminoethyl chloride hydrochloride ▶ 2-Chloroethylamine hydrochloride

Aminohippuric acid reagent

Acido amminoippurico reattivo • Réactif à l'acide aminohippurique • Reactivo de ácido aminohipúrico

Classification transport
ONU: 1993

Aminohippuric acid reagent > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611003701	100 ml	Glass bottle	Ref Ph.Eur 1003701

4-Amino-3-hydroxy-1-naphthalenesulfonic acid ▶ 1-Amino-2-naphthol-4-sulfonic acid

1-Amino-2-naphthol-4-sulfonic acid

Acido 1-ammino-2-naftolo-4-solfonico • Acide 1-amino-2-naphtol-4-sulfonique • Acido 1-amino-2-naftol-4-sulfonico

Synonym:
4-Amino-3-hydroxy-1-naphthalenesulfonic acid

$NH_2C_{10}H_5(OH)SO_3H$
Molecular Weight: 239,25
CAS: 116-63-2
EEC-N: 204-147-3

1-Amino-2-naphthol-4-sulfonic acid > RPE - For analysis

RPE

Description	Pink granular powder	Water (K.F.)	≤ 5 %	Assay	≥ 94 %
Identification	Positive	Sulphated ash	≤ 0.5 %		

Code	Size	Packaging	Notes
402032	25 g	Glass bottle	

For the determination of phosphates

4-Aminophenazon

4-Amminofenazone • 4-Aminophénazone • 4-Aminofenazona

Synonym:
4-Aminoantipyrine
4-Amino-2,3-dimethyl-1-phenyl-3-pyrazolin-5-one

$C_6H_5NN(CH_3)C(CH_3):C(NH_2)CO$
Molecular Weight: 203,25
CAS: 83-07-8
EEC-N: 201-452-3

Warning
H302
P264-P270-P330-P301+P312a-P501a

4-Aminophenazon > RS - For phenols detection

RS

Description ..... Yellowish crystalline powder
Identification ..... Positive
Melting point ..... 105.5 ÷ 110 ° C
Loss on drying ..... ≤ 1.5 %
Residue on ignition ..... ≤ 0.1 %
Assay (non-aqueos medium) ..... ≥ 97.5 % (s.s.)

Code	Size	Packaging	Notes
418381	25 g	Glass bottle	

m-Aminophenol

m-Amminofenolo • m-Aminophenol • m-Aminofenol

Synonym:
3-Aminophenol

$NH_2C_6H_4OH$
Molecular Weight: 109,13
CAS: 591-27-5
EEC-N: 209-711-2

Classification transport
ONU: 2512
Transport Hazard class: 6.1
Packing group III

Warning
H302-H332-H411
P264-P273-P271-P261-P304+P340-P330

m-Aminophenol > RE - Pure

RE

Description ..... Yellowish powder
Identification ..... Positive
Melting point ..... 122 ÷ 126 ° C
Assay (ex nitrogen) ..... ≥98 %

Code	Size	Packaging	Notes
418564	100 g	Glass bottle	

p-Aminophenol

p-Amminofenolo • p-Aminophénol • p-Aminofenol

Synonym:
4-Aminophenol
4-Hydroxyaniline

$NH_2C_6H_4OH$
Molecular Weight: 109,13
CAS: 123-30-8
EEC-N: 204-616-2

Classification transport
ONU: 2512
Transport Hazard class: 6.1
Packing group III

Warning
H302-H332-H341-H410
P264-P273-P271-P280-P304+P340-P308+P313

p-Aminophenol > RE - Pure

RE

Description ..... White powder or yellow
Identification ..... Positive
Residue on ignition ..... ≤ 2.5 %
Assay (GLC) ..... ≥ 96.0 %

Code	Size	Packaging	Notes
418594	100 g	Glass bottle	

2-Aminopropane ▶ Isopropylamine

α-Aminotoluene ▶ Benzylamine

Amman's lactophenol solution

Lattofenolo d'Amman soluzione • Lactophénol d'Amman en solution • Lactofenol de Amman solución

Classification transport
ONU: 2810
Transport Hazard class: 6.1
Packing group II

Danger
H302-H312-H332-H314-H318-H341-H373
P264-P271-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Amman's lactophenol solution > RS - For microscopy

RS

Description ..... Amber liquid
Identification ..... Positive
Density at 20°C ..... 1.155 ÷ 1.159

Code	Size	Packaging	Notes
457531	100 ml	Glass bottle	

Dye for bacteriology. Contains phenol

Ammonia solution 32%

Ammoniaca soluzione 32% • Ammoniaque solution 32% • Amonio hidróxido 32%

Synonym:
Ammonium hydroxide solution

NH_4OH
Molecular Weight: 35,05
CAS: 1336-21-6

Classification transport
ONU: 2672
Transport Hazard class: 8
Packing group III

Danger
H314-H318-H335-H400
P273-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Ammonia solution 32% > RE - Pure

RE

Description ..... Clear liquid
Color ..... ≤ 10 APHA
Identification ..... Positive
Density at 20°C ..... 0.880 ÷ 0.898
Assay (alcalimetric)..... 28 ÷ 34 %

Code	Size	Packaging	Notes
528503	5 l	Plastic drum	
528501	18 kg	Plastic tank	

Ammonia solution 30%

Ammoniaca soluzione 30% • Ammoniaque solution 30% • Amonio hidróxido 30%

Synonym:
Ammonium hydroxide solution

NH_4OH
Molecular Weight: 35,05
CAS: 1336-21-6

Classification transport
ONU: 2672
Transport Hazard class: 8
Packing group III

Danger
H314-H318-H335-H400
P273-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Ammonia solution 30% > RS - RSE - For electronic use

RS

Description ..... Clear liquid
Colour (APHA) ..... ≤10
Identification ..... Positive
Density at 20° C ..... 0.892 ÷ 0.910
Carbonate..... ≤5 ppm
Chloride..... ≤0.25 ppm
Phosphate ..... ≤0.2 ppm
Heavy metals (Pb)..... ≤0.2 ppm
Residue on ignition..... ≤3 ppm
Subst. reducing KMnO4..... ≤5 ppm
Sulphate..... ≤1 ppm
Assay (alkalimetric)..... 28 ÷ 32 %

Ag..... ≤0.02 ppm
Al..... ≤0.05 ppm
As..... ≤0.025 ppm
Au..... ≤0.05 ppm
B..... ≤0.01 ppm
Ba..... ≤0.1 ppm
Be..... ≤0.02 ppm
Bi..... ≤0.02 ppm
Ca..... ≤0.2 ppm
Cd..... ≤0.01 ppm
Co..... ≤0.01 ppm
Cr..... ≤0.01 ppm

Cu..... ≤0.01 ppm
Fe..... ≤0.03 ppm
Ga..... ≤0.02 ppm
In..... ≤0.02 ppm
K..... ≤0.2 ppm
Li..... ≤0.02 ppm
Mg..... ≤0.1 ppm
Mn..... ≤0.01 ppm
Mo..... ≤0.05 ppm
Na..... ≤0.5 ppm
Ni..... ≤0.01 ppm
Pb..... ≤0.01 ppm

Pt..... ≤0.05 ppm
Sb..... ≤0.05 ppm
Sn..... ≤0.02 ppm
Sr..... ≤0.02 ppm
Ta..... ≤0.1 ppm
Ti..... ≤0.05 ppm
Tl..... ≤0.05 ppm
V..... ≤0.05 ppm
Zn..... ≤0.05 ppm
Zr..... ≤0.05 ppm

Code	Size	Packaging	Notes
420071	1 l	Glass bottle	
420073	2 l	Glass bottle	
420077	5 l	Plastic bottle	
420075	25 kg	Plastic drum	

Ammonia solution 30% > RPE - For analysis - ACS

RPE

Description ..... Clear colourless liquid
Colour (APHA) ..... ≤10
Identification ..... Positive
Assay (alkalimetric)..... 28.0 ÷ 30.0 %
Density at 20° C ..... 0.892 ÷ 0.910
Carbonate..... ≤10 ppm
Chloride..... ≤0.5 ppm
Phosphate ..... ≤0.3 ppm

Heavy metals (Pb)..... ≤0.4 ppm
Subst. reducing KMnO4..... ≤8 ppm(5m)
Silicate ..... ≤10 ppm
Sulphide ..... ≤0.1 ppm
Sulphate..... ≤2 ppm
Ag..... ≤0.02 ppm
As..... ≤0.02 ppm
Ca..... ≤0.5 ppm

Cd..... ≤0.01 ppm
Co..... ≤0.01 ppm
Cr..... ≤0.02 ppm
Cu..... ≤0.02 ppm
Fe..... ≤0.05 ppm
K..... ≤0.2 ppm
Mg..... ≤0.1 ppm
Mn..... ≤0.01 ppm

Na..... ≤1 ppm
Ni..... ≤0.02 ppm
Pb..... ≤0.02 ppm
Zn..... ≤0.05 ppm
Nitrate..... ≤2 ppm
Residue on ignition..... ≤20 ppm

Code	Size	Packaging	Notes
419941	1 l	Glass bottle	
419943	2 l	Glass bottle	
419948	2 l	Plastic bottle	
419945	5 l	Plastic tank	
419946	25 kg	Plastic drum	

Ammonia solution 30% > RE - Pure

RE

Description	Clear liquid	Residue on evaporation	≤0.1 %	Sulphate	≤500 ppm
Identification	Positive	Chloride	≤300 ppm	Fe	≤20 ppm
Density at 15° C	0.89 ÷ 0.91	Heavy metals (Pb)	≤50 ppm	Assay (alkalimetric)	28 ÷ 32 %

Code	Size	Packaging	Notes
314873	2 l	Glass bottle	
314871	25 kg	Plastic drum	

Ammonia solution 28%

Ammoniaca soluzione 28% • Ammoniaque solution 28% • Amonio hidróxido 28%

Synonym:
Ammonium hydroxide solution

NH_4OH
Molecular Weight: 35,05
CAS: 1336-21-6

Classification transport
ONU: 2672
Transport Hazard class: 8
Packing group III

Danger
H314-H318-H335-H400
P273-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Ammonia solution 28% > ERBApharm - According to pharmacopoeia : NF-FU-Ph.Eur.

ERBApharm

Description	Clear colourless liquid	Carbonate	≤ 60 ppm	Fe	≤ 0.25 ppm	Ph.Eur.	
Identification	Positive	Chloride	≤ 1 ppm	Non volat.substances	≤ 0.002 % m/v	Pyridine and homologues	Conform Ph.Eur.
Appearance of solution	Conform Ph.Eur.	Sulphate	≤ 5 ppm	Assay (alkalimetric)	27.0 ÷ 30.0 % NH3	Origin (BSE/TSE)	Synthesis
Density at 20° C	0.892 ÷ 0.910	Heavy metals (Pb)	≤ 1 ppm	Ready oxidizable substances	Conform		

Code	Size	Packaging	Notes
314861	1 l	Glass bottle	
314863	2 l	Glass bottle	
314866	25 kg	Plastic drum	

Ammonia solution 25%

Ammoniaca soluzione 25% • Ammoniaque solution 25% • Amonio hidróxido 25%

Synonym:
Ammonium hydroxide solution

NH_4OH
Molecular Weight: 35,05
CAS: 1336-21-6

Classification transport
ONU: 2672
Transport Hazard class: 8
Packing group III

Danger
H314-H318-H335-H400
P273-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Ammonia solution 25% > RS - RSE - For electronic use

RS

Description	Clear liquid	Al	≤0.05 ppm	Fe	≤0.03 ppm	Sb	≤0.05 ppm
Colour (APHA)	≤10	As	≤0.025 ppm	Ga	≤0.02 ppm	Sn	≤0.02 ppm
Identification	Positive	Au	≤0.05 ppm	In	≤0.02 ppm	Sr	≤0.02 ppm
Density at 20° C	0.901 ÷ 0.907	B	≤0.01 ppm	K	≤0.2 ppm	Ta	≤0.1 ppm
Carbonate	≤5 ppm	Ba	≤0.1 ppm	Li	≤0.02 ppm	Ti	≤0.05 ppm
Chloride	≤0.25 ppm	Be	≤0.02 ppm	Mg	≤0.1 ppm	Tl	≤0.05 ppm
Phosphate	≤0.2 ppm	Bi	≤0.02 ppm	Mn	≤0.01 ppm	V	≤0.05 ppm
Heavy metals (Pb)	≤0.2 ppm	Ca	≤0.2 ppm	Mo	≤0.05 ppm	Zn	≤0.05 ppm
Residue on ignition	≤3 ppm	Cd	≤0.01 ppm	Na	≤0.5 ppm	Zr	≤0.05 ppm
Subst. reducing KMn04	≤5 ppm	Co	≤0.01 ppm	Ni	≤0.01 ppm	Assay (alkalimetric)	24.0 ÷ 26.0 %
Total sulphur	≤1 ppm	Cr	≤0.01 ppm	Pb	≤0.01 ppm		
Ag	≤0.02 ppm	Cu	≤0.01 ppm	Pt	≤0.05 ppm		

Code	Size	Packaging	Notes
420085	5 l	Plastic bottle	
420084	25 kg	Plastic drum	

Ammonia solution 25% > RS - MOS For electronic use

RS

Description	Clear liquid	Ag	≤0.02 ppm	Cu	≤0.01 ppm	Pt	≤0.05 ppm
Colour (APHA)	≤10	Al	≤0.05 ppm	Fe	≤0.03 ppm	Sb	≤0.05 ppm
Identification	Positive	As	≤0.025 ppm	Ga	≤0.02 ppm	Sn	≤0.02 ppm
Density at 20° C	0.901 ÷ 0.907	Au	≤0.05 ppm	In	≤0.02 ppm	Sr	≤0.02 ppm
Carbonate	≤5 ppm	B	≤0.01 ppm	K	≤0.2 ppm	Ta	≤0.1 ppm
Chloride	≤0.25 ppm	Ba	≤0.1 ppm	Li	≤0.02 ppm	Ti	≤0.05 ppm
Phosphate	≤0.2 ppm	Be	≤0.02 ppm	Mg	≤0.1 ppm	Tl	≤0.05 ppm
Heavy metals (Pb)	≤0.2 ppm	Bi	≤0.02 ppm	Mn	≤0.01 ppm	V	≤0.05 ppm
Residue on ignition	≤3 ppm	Ca	≤0.2 ppm	Mo	≤0.05 ppm	Zn	≤0.05 ppm
Subst. reducing KMn04	≤5 ppm	Cd	≤0.01 ppm	Na	≤0.5 ppm	Zr	≤0.05 ppm
Total sulphur	≤1 ppm	Co	≤0.01 ppm	Ni	≤0.01 ppm		
Assay (alkalimetric)	24.0 ÷ 26.0 %	Cr	≤0.01 ppm	Pb	≤0.01 ppm		

Code	Size	Packaging	Notes
420051	1 l	Plastic bottle	
420052	2.5 l	Plastic bottle	

Ammonia solution 25% > RPE - For analysis

RPE

Description	Clear liquid	Phosphate	≤0.3 ppm	As	≤0.02 ppm	K	≤0.2 ppm
Colour (APHA)	≤10	Heavy metals (Pb)	≤0.4 ppm	Ca	≤0.5 ppm	Mg	≤0.1 ppm
Identification	Positive	Residue on ignition	≤3 ppm	Cd	≤0.01 ppm	Mn	≤0.01 ppm
Density at 20° C	0.901 ÷ 0.907	Subst. reducing KMn04	≤8 ppm(5m)	Co	≤0.01 ppm	Na	≤1 ppm
Assay (alkalimetric)	24.0 ÷ 26.0 %	Sulphide	≤0.1 ppm	Cr	≤0.02 ppm	Ni	≤0.02 ppm
Carbonate	≤10 ppm	Total sulphur	≤1 ppm	Cu	≤0.02 ppm	Pb	≤0.02 ppm
Chloride	≤0.5 ppm	Ag	≤0.02 ppm	Fe	≤0.05 ppm	Zn	≤0.05 ppm

Code	Size	Packaging	Notes
419993	2 l	Glass bottle	

Ammonia solution 20 - 22 %

Ammoniaca soluzione 20 - 22 % • Ammoniaque solution 20 - 22 % • Amonio hidróxido 20 - 22 %

Synonym:
Ammonium hydroxide solution

NH_4OH
Molecular Weight: 35,05
CAS: 1336-21-6

Classification transport
ONU: 2672
Transport Hazard class: 8
Packing group III

Danger
H314-H400-H335-H411
P264-P273-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338-P501a

Ammonia solution 20 - 22 % > RS - Ultrapure - For trace analysis

RS

Description	Clear colourless liquid	Mg	≤ 20 ppt	Er	≤ 10 ppt	Rh	≤ 10 ppt
Identification	Positive	Mn	≤ 10 ppt	Eu	≤ 10 ppt	Rb	≤ 10 ppt
Ag	≤ 10 ppt	Na	≤ 20 ppt	Gd	≤ 10 ppt	Sm	≤ 10 ppt
Al	≤ 20 ppt	Ni	≤ 10 ppt	Ga	≤ 10 ppt	Sc	≤ 10 ppt
As	≤ 10 ppt	Pb	≤ 10 ppt	Ge	≤ 10 ppt	Te	≤ 10 ppt
Ba	≤ 10 ppt	Sn	≤ 10 ppt	Au	≤ 10 ppt	Tb	≤ 10 ppt
Be	≤ 10 ppt	Sr	≤ 10 ppt	Ho	≤ 10 ppt	Th	≤ 10 ppt
Bi	≤ 10 ppt	Tl	≤ 10 ppt	In	≤ 10 ppt	Tm	≤ 10 ppt
Ca	≤ 20 ppt	Ti	≤ 10 ppt	La	≤ 10 ppt	W	≤ 10 ppt
Cd	≤ 10 ppt	Zn	≤ 10 ppt	Li	≤ 10 ppt	U	≤ 10 ppt
Co	≤ 10 ppt	Assay (alkalimetric)	20 ÷ 22 %	Lu	≤ 10 ppt	V	≤ 10 ppt
Cr	≤ 10 ppt	Sb	≤ 10 ppt	Mo	≤ 10 ppt	Yb	≤ 10 ppt
Cu	≤ 20 ppt	Ce	≤ 10 ppt	Nd	≤ 10 ppt	Y	≤ 10 ppt
Fe	≤ 20 ppt	Cs	≤ 10 ppt	Nb	≤ 10 ppt	Zr	≤ 10 ppt
K	≤ 20 ppt	Dy	≤ 10 ppt	Pr	≤ 10 ppt		

Code	Size	Packaging	Notes
420161	500 ml	Plastic bottle	

Ammonia solution 20 - 22 % > RS - Superpure - For trace analysis at ppb level

RS

Description	Clear liquid	Mg	≤ 1 ppb	Colour (APHA)	≤ 10	Rh	≤ 0.5 ppb
Identification	Positive	Mn	≤ 0.5 ppb	Ce	≤ 0.1 ppb	Rb	≤ 0.1 ppb
Ag	≤ 0.5 ppb	Mo	≤ 0.5 ppb	Cs	≤ 0.1 ppb	Sm	≤ 0.1 ppb
Al	≤ 1 ppb	Na	≤ 1 ppb	Dy	≤ 0.1 ppb	Sc	≤ 0.1 ppb
As	≤ 1 ppb	Ni	≤ 0.5 ppb	Er	≤ 0.1 ppb	Te	≤ 0.1 ppb
Ba	≤ 0.1 ppb	Pb	≤ 0.1 ppb	Eu	≤ 0.1 ppb	Tb	≤ 0.1 ppb
Be	≤ 0.1 ppb	Sb	≤ 0.5 ppb	Gd	≤ 0.1 ppb	Tl	≤ 0.1 ppb
Bi	≤ 0.1 ppb	Se	≤ 1 ppb	Ga	≤ 0.1 ppb	Tm	≤ 0.1 ppb
Ca	≤ 1 ppb	Sn	≤ 0.5 ppb	Ge	≤ 0.1 ppb	W	≤ 0.1 ppb
Cd	≤ 0.5 ppb	Sr	≤ 0.1 ppb	Au	≤ 0.5 ppb	Yb	≤ 0.1 ppb
Co	≤ 0.5 ppb	Ti	≤ 0.5 ppb	Ho	≤ 0.1 ppb	Y	≤ 0.1 ppb
Cr	≤ 0.5 ppb	V	≤ 0.5 ppb	In	≤ 0.1 ppb	Chloride	≤ 0.5 ppm
Cu	≤ 0.5 ppb	Zn	≤ 0.5 ppb	La	≤ 0.1 ppb	Phosphate	≤ 0.01 ppm
Fe	≤ 1 ppb	Zr	≤ 0.1 ppb	Lu	≤ 0.1 ppb	Sulphate	≤ 1 ppm
Hg	≤ 0.2 ppb	Assay (alkalimetric)	20 ÷ 22 %	Nd	≤ 0.1 ppb		
K	≤ 1 ppb	U	≤ 0.1 ppb	Nb	≤ 0.1 ppb		
Li	≤ 0.1 ppb	Th	≤ 0.1 ppb	Pr	≤ 0.1 ppb		

Code	Size	Packaging	Notes
420175	500 ml	Plastic bottle	

Ammonia solution 20 - 22 % > RPE - For analysis

RPE

Description	Clear liquid	Phosphate	≤0.3 ppm	As	≤0.02 ppm	K	≤0.2 ppm
Colour (APHA)	≤10	Heavy metals (Pb)	≤0.4 ppm	Ca	≤0.5 ppm	Mg	≤0.1 ppm
Identification	Positive	Residue on calcination	≤3 ppm	Cd	≤0.01 ppm	Mn	≤0.01 ppm
Density at 20° C	0.917 ÷ 0.923	Subst. reducing KMnO4	≤8 ppm(5m)	Co	≤0.01 ppm	Na	≤1 ppm
Assay (alkalimetric)	20 ÷ 22 %	Sulphide	≤0.1 ppm	Cr	≤0.02 ppm	Ni	≤0.02 ppm
Carbonate	≤10 ppm	Total sulphur	≤1 ppm	Cu	≤0.02 ppm	Pb	≤0.02 ppm
Chloride	≤0.5 ppm	Ag	≤0.02 ppm	Fe	≤0.05 ppm	Zn	≤0.05 ppm

Code	Size	Packaging	Notes
419981	1 l	Glass bottle	
419983	2 l	Glass bottle	
419984	25 kg	Plastic drum	

Ammonia solution 17%

Ammoniaca soluzione 17% • Ammoniaque solution 17% • Amonio hidróxido 17 %

Synonym:
Ammonium hydroxide solution

NH_4OH
Molecular Weight: 35,05
CAS: 1336-21-6

Classification transport
ONU: 2672
Transport Hazard class: 8
Packing group III

Danger
H314-H400-H335-H411
P264-P273-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338-P501a

Ammonia solution 17% > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611004701	250 ml	Plastic bottle	Ref Ph.Eur 1004701

Storage: protected from atmospheric carbon dioxide, at a temperature below 20 °C

Ammonia solution 10%

Ammoniaca soluzione 10% • Ammoniaque solution 10% • Amonio hidróxido 10%

Synonym:
Ammonium hydroxide solution

NH_4OH
Molecular Weight: 35,05
CAS: 1336-21-6

Classification transport
ONU: 2672
Transport Hazard class: 8
Packing group III

Danger
H314-H400-H335-H411
P264-P273-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338-P501a

Ammonia solution 10% > RPE - For analysis

RPE

Description	Clear colourless liquid	Identification	Positive	Density at 15° C	0.956 ÷ 0.962	Assay (alkalimetric)	9.5 ÷ 10.5 %

Code	Size	Packaging	Notes
E420001	1 l	Plastic bottle	

Ammonia solution 6N

Ammonio soluzione 6N • Ammoniaque solution 6N • Amonio solución 6N

Synonym:
Ammonium hydroxide solution

NH_4OH
Molecular Weight: 35.05
CAS: 1336-21-6

Classification transport
ONU: 2672
Transport Hazard class: 8
Packing group III

Danger
H314-H318-H335-H400
P273-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Ammonia solution 6N > RS - For analysis according to USP

RS

Code	Size	Packaging	Notes
617000151	1 l	Plastic bottle	

Ammonia solution diluted

Ammoniaca soluzione diluita • Ammoniaque solution diluée • Amonio hidróxido solución diluido

Synonym:
Ammonium hydroxide solution

NH_4OH
Molecular Weight: 35,05
CAS: 1336-21-6

HEU210

Ammonia solution diluted > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611004702	1 l	Plastic bottle	Ammonia, dilute R1 Ref Ph.Eur 1004702
611004703	1 l	Plastic bottle	Ammonia, dilute R2 Ref Ph.Eur 1004703

Ammonia buffer solution pH 10

Tampone ammoniacale pH 10 • Tampon ammoniacal pH10 • Tampón de amoníaco pH 10

Classification transport
ONU: 1719
Transport Hazard class: 8
Packing group III

Danger
H314-H335
P264-P271-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Ammonia buffer solution pH 10 > RS - For analysis

RS

pH..... 10.5 - 10.9 unite pH Temperature of measurement ..... 19 - 21 °C

Code	Size	Packaging	Notes
PS0194/22	5 l	Plastic tank	
PS0194/95	5 l	Kubidos	
PS0194/96	10 l	Kubidos	

Ammoniacal solution of copper tetrammine

Rame tetrammina soluzione ammoniacale • Solution amoniacale de tétramminecuivre • Cobre tetrammina solución amoniacale

Classification transport
ONU: 1760
Transport Hazard class: 8
Packing group III

Danger
H314-H318
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Ammoniacal solution of copper tetrammine > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611022600	100 ml	Glass bottle	Ref Ph.Eur 1022600

Ammonium standard solution

Ammonio standard soluzione • Ammonium standard solution • Amonio, solución patrón

Warning
H319
P264-P280-P305+P351+P338-P337+P313

Ammonium standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2 — RS

Code	Size	Packaging	Notes
615000301	100 ml	Plastic bottle	A 2.5 ppm solution : to dilute according to Ref Ph.Eur 5000301
615000302	100 ml	Plastic bottle	A 1 ppm solution : to dilute according to Ref Ph.Eur 5000302
615000309	100 ml	Plastic bottle	A 100 ppm solution : to dilute according to Ref Ph.Eur 5000300

Ammonium standard solution > RS - Standard solution for ion chromatography — RS

Code	Size	Packaging	Notes
503311	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503313	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Ammonium acetate

Ammonio acetato • Ammonium acétate • Amonio acetato

CH_3COONH_4
Molecular Weight: 77,08
CAS: 631-61-8
EEC-N: 211-162-9

Ammonium acetate > RS - For LC/MS — RS

Assay ≥ 98 %	Al ≤ 1 ppm	Fe ≤ 2 ppm	Sr ≤ 1 ppm
Impurities ≤ 50 ppm	As ≤ 0.1 ppm	K ≤ 5 ppm	Zn ≤ 1 ppm
Water ≤ 2 %	Ba ≤ 1 ppm	Li ≤ 1 ppm	Grad. Elution H.Peak at 254 nm< 0.001 AU
Residue on ignition ≤ 100 ppm	Bi ≤ 1 ppm	Mg ≤ 1 ppm	Grad. Elution drift at 254 nm < 0.005 AU
pH 6.5 ÷ 7.4	Ca ≤ 5 ppm	Mn ≤ 1 ppm	T260nm (1M) ≥ 98 %
Melting point 110 ÷ 112 °C	Cd ≤ 1 ppm	Mo ≤ 1 ppm	T280nm (1M) ≥ 99 %
Chloride ≤ 5 ppm	Co ≤ 1 ppm	Na ≤ 5 ppm	Preparation Filtered through 0.1
Nitrate ≤ 10 ppm	Cr ≤ 1 ppm	Ni ≤ 1 ppm	
Sulfate ≤ 10 ppm	Cu ≤ 1 ppm	Pb ≤ 1 ppm	

Code	Size	Packaging	Notes
418781	50 g	Glass bottle	

Ammonium acetate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP — RPE

Description Crist. bianchi	Water-insoluble matter ≤50 ppm	Nitrate ≤10 ppm	Fe ≤5 ppm
Identification Positive	Residue on ignition ≤100 ppm	Sulphate ≤10 ppm	Assay (acc.to Sörensen) ≥98 %
pH sol. 5% at 25° C 6.7 ÷ 7.3	Chloride ≤5 ppm	Heavy metals (Pb) ≤5 ppm	

Code	Size	Packaging	Notes
418775	100 g	Plastic bottle	
418776	500 g	Plastic bottle	
418777	1 kg	Plastic bottle	
418772	5 kg	Plastic bucket	
418771	25 kg	Plastic bucket	

Ammonium acetate > RE - Pure — RE

Description . White semitransparent crystals	Identification Positive	Water ≤ 2 %	Assay (non-aqueos medium) ≥ 97.5 % (s.s.)

Code	Size	Packaging	Notes
313507	1 kg	Plastic bottle	
313508	5 kg	Plastic jar	
313502	25 kg	Plastic bucket	
313504	50 kg	Fibre drum	

Ammonium aluminum sulfate dodecahydrate ▶ Aluminum ammonium sulfate dodecahydrate

Ammonium bicarbonate

Ammonio bicarbonato • Ammonium bicarbonate • Amonio bicarbonato

Synonym:
Ammonium hydrogen carbonate

NH_4HCO_3
Molecular Weight: 79,06
CAS: 1066-33-7
EEC-N: 213-911-5

Warning
H302
P264-P270-P330-P301+P312a-P501a

Ammonium bicarbonate > RPE - For analysis

RPE

Description ..... White crystalline powder
Identification ..... Positive
pH sol. 5% at 25° C ..... 7.0 ÷ 8.0
Chloride ..... ≤5 ppm
Phosphate ..... ≤5 ppm
Water-insoluble matter ..... ≤30 ppm
Sulphate ..... ≤50 ppm
Residue on ignition ..... ≤500 ppm
As ..... ≤1 ppm
Ca ..... ≤100 ppm
Cu ..... ≤10 ppm
Fe ..... ≤10 ppm
K ..... ≤10 ppm
Mg ..... ≤10 ppm
Na ..... ≤20 ppm
Ni ..... ≤10 ppm
Pb ..... ≤10 ppm
Assay (acidimetric) ..... ≥98.5 %

Code	Size	Packaging	Notes
418925	100 g	Plastic bottle	
418926	500 g	Plastic bottle	
418927	1 kg	Plastic bottle	
418929	5 kg	Plastic jar	

Ammonium bicarbonate > RE - Pure

RE

Description ..... White crystalline powder
Identification ..... Positive
Sulphated ash ..... ≤500 ppm
Chloride ..... ≤50 ppm
Sulphate ..... ≤150 ppm
Assay (acidimetric) ..... ≥99 %

Code	Size	Packaging	Notes
313601	5 kg	Plastic jar	

Ammonium bifluoride ▶ Ammonium hydrogen difluoride

Ammonium bromide

Ammonio bromuro • Ammonium bromure • Amonio bromuro

NH_4Br
Molecular Weight: 97,94
CAS: 12124-97-9
EEC-N: 235-183-8

Ammonium bromide > RPE - For analysis - ACS

RPE

Description ..... White crystalline powder
Identification ..... Positive
pH sol. 5% at 25° C ..... 4.5 ÷ 6.0
Water-insoluble matter ..... ≤50 ppm
Residue on ignition ..... ≤100 ppm
Bromate ..... ≤20 ppm
Chloride ..... ≤0.2 %
Iodide ..... Conform
Sulphate ..... ≤50 ppm
Heavy metals (Pb) ..... ≤5 ppm
Ba ..... ≤20 ppm
Fe ..... ≤5 ppm
Assay (argentimetric) ..... ≥99.0 %

Code	Size	Packaging	Notes
419174	100 g	Plastic bottle	
419175	250 g	Plastic bottle	
419176	500 g	Plastic bottle	
419177	1 kg	Plastic bottle	

Ammonium carbamate

Ammonio carbammato • Ammonium carbamate • Amonio carbamato

Synonym:
Carbamic acid ammonium salt

NH_2COONH_4
Molecular Weight: 78,07
CAS: 1111-78-0
EEC-N: 214-185-2

Warning
H302
P264-P270-P330-P301+P312a-P501a

Ammonium carbamate > RPE - For analysis

RPE

Description ..... Pezzi irregolari bianchi
Identification ..... Positive
Chloride ..... ≤ 5 ppm
Phosphate ..... ≤ 5 ppm
Nitrate ..... ≤ 10 ppm
Ca ..... ≤ 10 ppm
Cu ..... ≤ 5 ppm
Fe ..... ≤ 5 ppm
K ..... ≤ 50 ppm
Mg ..... ≤ 5 ppm
Na ..... ≤ 50 ppm
Ni ..... ≤ 5 ppm
Pb ..... ≤ 5 ppm
Zn ..... ≤ 5 ppm
Assay (alkalimetric) ..... ≥ 99.5 %
Sulphate ..... ≤ 10 ppm
Cd ..... ≤ 5 ppm
Co ..... ≤ 5 ppm
Cr ..... ≤ 5 ppm
Mn ..... ≤ 5 ppm
Residue on calcination ..... ≤ 20 ppm

Code	Size	Packaging	Notes
419201	100 g	Plastic bottle	
419204	500 g	Plastic bottle	
419202	1 kg	Plastic bottle	

Ammonium carbonate

Ammonio carbonato • Ammonium carbonate • Amonio carbonato

Synonym:
Hartshorn salt

$(NH_4)_2CO_3$
Molecular Weight: 96,09
CAS: 10361-29-2
EEC-N: 233-786-0

Warning
H302
P264-P270-P330-P301+P312a-P501a

Ammonium carbonate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description ..... White crystals
Identification ..... Positive
Water-insoluble matter ..... ≤50 ppm
Non volat.substances ..... ≤100 ppm
Chloride ..... ≤5 ppm
Total sulphur ..... ≤20 ppm
Heavy metals (Pb) ..... ≤5 ppm
Fe ..... ≤5 ppm
Assay (alkalimetric) ..... ≥30.0 %

Code	Size	Packaging	Notes
419235	100 g	Plastic bottle	
419236	500 g	Plastic bottle	
419237	1 kg	Plastic bottle	
419239	5 kg	Plastic jar	
419232	25 kg	Plastic bucket	

Ammonium carbonate > ERBApharm - According to pharmacopoeia : NF

ERBApharm

Description ..... White crystalline powder
Identification ..... Positive
Sulphated ash ..... ≤0.1 %
Chloride ..... ≤35 ppm
Sulphate ..... ≤50 ppm
Heavy metals (Pb) ..... ≤10 ppm
Assay (acidimetric) .... 30.0 ÷ 34.0 % (NH3)

Code	Size	Packaging	Notes
313887	1 kg	Plastic bottle	
313889	5 kg	Plastic jar	

Ammonium carbonate solution 20%

Ammonio carbonato soluzione 20% • Ammonium carbonate solution 20% • Amonio carbonato solución 20%

$(NH_4)_2CO_3$
Molecular Weight: 96,09
CAS: 10361-29-2

Danger
H314
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Ammonium carbonate solution 20% > RPE - For analysis

RPE

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 15° C ..... 1.065 ÷ 1.075

Code	Size	Packaging	Notes
E419261	1 l	Bottle	

Ammonium carbonate solution 158 g/l

Ammonio carbonato soluzione 158 g/l • Ammonium carbonate solution 158 g/l • Amonio carbonato solución 158 g/l

$(NH_4)_2CO_3$
Molecular Weight: 96,09
CAS: 10361-29-2

HEU210

Ammonium carbonate solution 158 g/l > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611005201	1 l	Plastic bottle	Ref Ph.Eur 1005201

Ammonium chloride

Ammonio cloruro • Ammonium chlorure • Amonio cloruro

Synonym:
Salmiac

NH_4Cl
Molecular Weight: 53,49
CAS: 12125-02-9
EEC-N: 235-186-4

Warning
H302-H319
P264-P280i-P305+P351+P338-P330-P337+P313-P301+P312a

Ammonium chloride > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description ..... White crystalline powder
Identification ..... Positive
pH sol. 5% at 25° C ..... 4.5 ÷ 5.5
Water-insoluble matter ..... ≤50 ppm
Residue on ignition ..... ≤ 100 ppm
Phosphate ..... ≤2 ppm
Sulphate ..... ≤20 ppm
Heavy metals (Pb) ..... ≤5 ppm
Ca ..... ≤10 ppm
Fe ..... ≤2 ppm
Mg ..... ≤5 ppm
Assay (argentimetric) ..... ≥99.5 %

Code	Size	Packaging	Notes
419415	100 g	Plastic bottle	
419416	500 g	Plastic bottle	
419417	1 kg	Plastic bottle	
419419	5 kg	Plastic jar	
419412	25 kg	Drum	

Ammonium chloride > ERBApharm - According to pharmacopoeia : Ph.Eur.-USP-FU-Ph.Franc.-BP-DAB

ERBApharm

Description ..... White crystalline powder
Identification ..... Positive
Appearance of solution ..... Conform Ph.Eur.
Acidity or alkalinity ..... Conform Ph.Eur.
Bromide and Iodide ..... Conform Ph.Eur.
Thiocyanate ..... Conform USP-NF
pH (1:20) ..... 4.6 ÷ 6.0
Loss on drying ..... ≤0.5 %
Sulphated ash ..... ≤0.1 %
Heavy metals (Pb) ..... ≤10 ppm
Sulphate ..... ≤150 ppm
Ca ..... ≤200 ppm
Fe ..... ≤20 ppm
Assay (argentimetric) .. 99.5 ÷ 100.5 % s.s.
Origin (BSE/TSE) ..... Synthesis
Residual solvents (Current ICH) ..... Conform

Code	Size	Packaging	Notes
313957	1 kg	Plastic bottle	
313952	2.5 kg	Plastic jar	
313956	5 kg	Plastic jar	
313951	25 kg	Plastic bucket	
313954	50 kg	Fibre drum	

Ammonium chloride > RE - Pure

RE

Description ..... Polvere crist. bianca parz. ammassata
Identification ..... Positive
Water (K.F.) ..... ≤ 0.1 %
Not soluble matter ..... ≤ 0.02 %
Sulphated ash ..... ≤ 0.3 %
Fe ..... ≤ 10 ppm
Assay (argentimetric) ..... ≥ 99 %

Code	Size	Packaging	Notes
314002	2.5 kg	Plastic jar	
314001	25 kg	Plastic bucket	

Ammonium chloride buffer solution pH 10.7

Tampone cloruro di ammonio pH 10.7 • Tampon chlorure d'ammonium pH 10.7 • Tampón cloruro di ammonio pH 10.7

Danger
H314-H318
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Ammonium chloride buffer solution pH 10.7 > RS - For analysis according to Ph. Eur. Chap. 4.1.3 — RS

Code	Size	Packaging	Notes
614013400	1 l	Plastic bottle	Ref Ph.Eur 4013400

Ammonium chloride buffer solution pH 10.0

Tampone cloruro di ammonio pH 10.0 • Tampon chlorure d'ammonium pH 10.0 • Tampón cloruro di ammonio pH 10.0

Danger
H314-H318
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Ammonium chloride buffer solution pH 10.0 > RS - For analysis according to Ph. Eur. Chap. 4.1.3 — RS

Code	Size	Packaging	Notes
614007301	100 ml	Plastic bottle	Ref Ph.Eur 4007300
614007300	1 l	Plastic bottle	Ref Ph.Eur 4007300

Ammonium chloride buffer solution pH 9.5

Tampone cloruro di ammonio pH 9.5 • Tampon chlorure d'ammonium pH 9.5 • Tampón cloruro di ammonio pH 9.5

Ammonium chloride buffer solution pH 9.5 > RS - For analysis according to Ph. Eur. Chap. 4.1.3 — RS

Code	Size	Packaging	Notes
614007200	1 l	Plastic bottle	Ref Ph.Eur 4007200

Ammonium chloride solution 10%

Ammonio cloruro soluzione 10% • Ammonium chlorure solution 10% • Amonio cloruro solución 10%

NH_4Cl
Molecular Weight: 53,49
CAS: 12125-02-9

Warning
H319
P264-P280-P305+P351+P338-P337+P313

Ammonium chloride solution 10% > RPE - For analysis — RPE

Description ..... Clear colourless liquid Identification ..... Positive Density at 20° C ..... 1.025 ÷ 1.031 Assay ..... 9.5 ÷ 10.5 %

Code	Size	Packaging	Notes
E419531	1 l	Bottle	

tri-Ammonium citrate

Ammonio citrato tribasico • tri-Ammonium citrate • Tri-amonio citrato

Synonym:
Ammonium citrate tribasic
Citric acid triammonium salt

$HOC(CO_2NH_4)(CH_2CO_2NH_4)_2$
Molecular Weight: 243,22
CAS: 3458-72-8
EEC-N: 222-394-5

Warning
H315-H319-H335
P264-P271-P304+P340-P305+P351+P338-P312a-P332+P313

tri-Ammonium citrate > RE - Pure — RE

Description ..... White crystalline powder Chloride ..... ≤ 20 ppm Fe ..... ≤ 20 ppm
Identification ..... Positive Sulphate ..... ≤ 70 ppm Assay ..... ≥ 97 %

Code	Size	Packaging	Notes
313895	25 kg	Plastic bucket	

Ammonium citrate dibasic

Ammonio citrato bibasico • Ammonium citrate dibasique • Amonio citrato dibásico

Synonym:
Ammonium hydrogencitrate
Citric acid ammonium salt

$HOCCOOH(CH_2COONH_4)_2$
Molecular Weight: 226,18
CAS: 3012-65-5
EEC-N: 221-146-3

Warning
H319
P264-P280i-P305+P351+P338-P337+P313

Ammonium citrate dibasic > RPE - For analysis - ACS

RPE

Description ..... White crystals
Identification ..... Positive
Water-insoluble matter ..... ≤ 50 ppm
Residue on ignition ..... ≤ 50 ppm
Chloride ..... ≤ 10 ppm
Phosphate ..... ≤ 5 ppm
Oxalate ..... ≤ 500 ppm
Total sulphur ..... ≤ 50 ppm
Heavy metals (Pb) ..... ≤ 5 ppm
Fe ..... ≤ 10 ppm
Assay (acc.to Sörensen) .... 98.0 ÷ 103.0 %

Code	Size	Packaging	Notes
419315	250 g	Plastic bottle	
419313	500 g	Plastic bottle	
419317	1 kg	Plastic bottle	
419312	25 kg	Plastic bucket	
419316	50 kg	Fibre drum	

Ammonium citrate solution 20%

Ammonio citrato soluzione 20% • Ammonium citrate solution 20% • Amonio citrato solución 20%

Synonym:
Ammonium hydrogencitrate
Citric acid ammonium salt

$HOCCOOH(CH_2COONH_4)_2$
Molecular Weight: 226,18
CAS: 3012-65-5

Warning
H319
P264-P280i-P305+P351+P338-P337+P313

Ammonium citrate solution 20% > RPE - For analysis

RPE

Description ..... Clear colourless liquid
pH of the substance ..... 7 - 7.3
Assay ..... 19 - 21 %

Code	Size	Packaging	Notes
E419361	1 l	Bottle	

For the determination of phosphates

Ammonium citrate tribasic ▶ tri-Ammonium citrate

Ammonium cobalt(II) sulfate hexahydrate ▶ Cobalt (II) ammonium sulfate hexahydrate

Ammonium dihydrogenphosphate ▶ Ammonium phosphate monobasic

Ammonium fluoride

Ammonio fluoruro • Ammonium fluorure • Amonio fluoruro

NH_4F
Molecular Weight: 37,04
CAS: 12125-01-8
EEC-N: 235-185-9

Classification transport
ONU: 2505
Transport Hazard class: 6.1
Packing group III

Danger
H301-H311-H331
P264-P271-P304+P340-P301+P310a-P312a-P330

Ammonium fluoride > RPE - For analysis - ACS

RPE

Description ..... White crystals
Identification ..... Positive
Water-insoluble matter ..... ≤50 ppm
Residue on ignition ..... ≤100 ppm
Chloride ..... ≤10 ppm
Sulphate ..... ≤50 ppm
Heavy metals (Pb) ..... ≤5 ppm
Fe ..... ≤5 ppm
Assay (acc.to Sörensen) ..... ≥98.0 %

Code	Size	Packaging	Notes
419634	100 g	Plastic bottle	
419638	250 g	Plastic bottle	
419635	500 g	Plastic bottle	
419637	1 kg	Plastic bottle	

Ammonium formate

Ammonio formiato • Ammonium formiate • Amonio formiato

Synonym:
Formic acid ammonium salt

$HCOONH_4$
Molecular Weight: 63,06
CAS: 540-69-2
EEC-N: 208-753-9

Warning
H315-H319-H335
P264-P271-P304+P340-P305+P351+P338-P312a-P332+P313

Ammonium formate > RS - For LC/MS

RS

Assay	≥ 98 %	As	≤ 0.1 ppm	Fe	≤ 3 ppm	Pb	≤ 1 ppm
Impurities	≤ 50 ppm	Ba	≤ 1 ppm	K	≤ 5 ppm	Sr	≤ 1 ppm
Water	≤ 0.5 %	Bi	≤ 1 ppm	Li	≤ 1 ppm	Zn	≤ 1 ppm
pH	5.5 ÷ 7.6	Ca	≤ 5 ppm	Mg	≤ 1 ppm	Grad. Elution H.Peak at 254 nm	≤ 0.001 AU
Melting point	119 ÷ 121 °C	Cd	≤ 1 ppm	Mn	≤ 1 ppm	Grad. Elution drift at 254 nm	≤ 0.005 AU
Chloride	≤ 5 ppm	Co	≤ 1 ppm	Mo	≤ 1 ppm	T260nm (1M)	≥ 97 %
Sulfate	≤ 10 ppm	Cr	≤ 1 ppm	Na	≤ 5 ppm	Preparation	Filtered through 0.1
Al	≤ 1 ppm	Cu	≤ 1 ppm	Ni	≤ 1 ppm		

Code	Size	Packaging	Notes
419741	50 g	Glass bottle	

Ammonium formate > RPE - For analysis - Reag. Ph.Eur.

RPE

Description	Colourless crystals	Water	≤ 0.5 %	Water-insoluble matter	≤ 50 ppm	Assay (acc.to Sörensen)	≥ 98.0 %
Identification	Positive	Chloride	≤ 5 ppm	Heavy metals (Pb)	≤ 5 ppm	Melting point	119 ÷ 121 °C
pH sol. 5% at 25° C	5.5 ÷ 7.0	Sulphate	≤ 10 ppm	Fe	≤ 5 ppm		

Code	Size	Packaging	Notes
419734	100 g	Plastic bottle	
419735	250 g	Plastic bottle	
419736	500 g	Plastic bottle	
419737	1 kg	Plastic bottle	
419733	25 kg	Plastic bucket	

Ammonium heptamolybdate tetrahydrate ▶ Ammonium molybdate tetrahydrate

Ammonium hydrogen carbonate ▶ Ammonium bicarbonate

di-Ammonium hydrogen citrate ▶ Ammonium citrate dibasic

Ammonium hydrogen difluoride

Ammonio bifluoruro • Ammonium bifluorure • Amonio bifluoruro

Synonym:
Ammonium bifluoride

$NH_4F.HF$
Molecular Weight: 57,04
CAS: 1341-49-7
EEC-N: 215-676-4

Classification transport
ONU: 1727
Transport Hazard class: 8
Packing group II

Danger
H301-H314
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Ammonium hydrogen difluoride > RE - Pure

RE

Description	White flakes	Water (K.F.)	≤ 0.5 %	Sulphite	≤ 100 ppm	Fe	≤ 500 ppm
Identification	Positive	Sulphate	≤ 2000 ppm	Heavy metals (Pb)	≤ 200 ppm	Assay (acidimetric)	≥ 94 %

Code	Size	Packaging	Notes
314261	1 kg	Plastic bottle	
314263	25 kg	Plastic bucket	

di-Ammonium hydrogen phosphate 25 mg/L solution

Ammonio diidrogeno fosfato 25 mg/L soluzione • Ammonium dihydrogénophosphate 25mg/L • di-Amonio Hidrógeno Fosfato solución 25 mg/l

Synonym:
Ammonium dihydrogenphosphate
Monoammonium phosphate

$NH_4H_2PO_4$
Molecular Weight: 115,03
CAS: 7722-76-1

Classification transport
ONU: 1760
Transport Hazard class: 8
Packing group III

Warning
H315-H319
P264-P280-P305+P351+P338-P332+P313-P337+P313-P302+P352a

di-Ammonium hydrogen phosphate 25 mg/L solution > RS - Matrix modifiers for AAS-GTA

RS

Code	Size	Packaging	Notes
503194	50 ml	Plastic bottle	conc. 25 ppm - Matrix : Nitric acid

di-Ammonium hydrogenphosphate ▶ Ammonium phosphate dibasic

Ammonium hydroxide solution ▶ Ammonia solution 32%

Ammonium iodide

Ammonio ioduro • Ammonium iodure • Amonio ioduro

NH_4I
Molecular Weight: 144,94
CAS: 12027-06-4
EEC-N: 234-717-7

Warning
H315-H319-H335
P264-P271-P304+P340-P305+P351+P338-P312a-P332+P313

Ammonium iodide > RPE - For analysis - ACS

RPE

Description ..... White granules
Identification ..... Positive
Residue on ignition ..... ≤ 0.05 %
Chloride + bromide (Cl) ..... ≤ 50 ppm
Water-insoluble matter ..... ≤ 50 ppm
Phosphate ..... ≤ 10 ppm
Heavy metals (Pb) ..... ≤ 10 ppm
Ba ..... ≤ 20 ppm
Fe ..... ≤ 5 ppm
Assay (oxidimetric) ..... ≥ 99.0 %
Sulphate ..... ≤ 0.05 %

Code	Size	Packaging	Notes
420133	50 g	Glass bottle	
420135	250 g	Glass bottle	
420136	1 kg	Glass bottle	

Stabilized with ~1,5% of NH4H2PO2

Ammonium iron(III) citrate ▶ Iron (III) ammonium citrate green

Ammonium iron(III) sulfate dodecahydrate ▶ Iron (III) ammonium sulfate dodecahydrate

Ammonium iron(II) sulfate hexahydrate ▶ Iron (II) ammonium sulfate hexahydrate

Ammonium molybdate tetrahydrate

Ammonio molibdato tetraidrato • Ammonium molybdate tetrahydraté • Amonio molibdato tetrahidratado

Synonym:
Ammonium heptamolybdate tetrahydrate

$(NH_4)_6Mo_7O_{24}.4H_2O$
Molecular Weight: 1235,86
CAS: 12054-85-2
EEC-N: 234-320-9

Warning
H302-H332
P264-P271-P261-P304+P340-P330-P301+P312a

Ammonium molybdate tetrahydrate > RS - For microanalysis

RS

Description ..... White crystalline powder
Identification ..... Positive
Water-insoluble matter ..... ≤ 0.005 %
Nitrate ..... ≤ 0.003 %
AsO4, PO4, SiO4 (SiO2) ..... ≤ 0.001 %
Chloride ..... ≤ 20 ppm
Sulphate ..... ≤ 200 ppm
Phosphate ..... ≤ 5 ppm
Heavy metals (Pb) ..... ≤ 10 ppm
K ..... ≤ 100 ppm
Mg ..... ≤ 50 ppm
Na ..... ≤ 100 ppm
Assay (complexometric) ..... 81.0 ÷ 83.0 %

Code	Size	Packaging	Notes
420391	100 g	Glass bottle	

Ammonium molybdate tetrahydrate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description ..... Green crystals
Identification ..... Positive
Water-insoluble matter .....≤ 50 ppm
Arsenate, phosphate and silicate (SiO2)≤ 10 ppm
Chloride.....≤ 20 ppm
Phosphate .....≤ 5 ppm
Nitrate .....≤ 30 ppm
Sulphate.....≤ 200 ppm
Heavy metals (Pb).....≤ 10 ppm
K.....≤ 100 ppm
Na.....≤ 100 ppm
Assay (oxidimetric) . 81.0 ÷ 83.0 % (MoO3)
Mg .....≤ 50 ppm

Code	Size	Packaging	Notes
420234	100 g	Glass bottle	
420236	500 g	Plastic bottle	
420238	2.5 kg	Plastic bottle	

Ammonium molybdate solution 5%

Ammonio molibdato soluzione 5% • Ammonium molybdate solution 5% • Amonio molibdato solución 5%

$(NH_4)_6Mo_7O_{24}.4H_2O$
Molecular Weight: 1235,86
CAS: 12054-85-2

HEU210

Ammonium molybdate solution 5% > RPE - For analysis

RPE

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 20° C ..... 1.02 ÷ 1.04

Code	Size	Packaging	Notes
E420321	1 l	Bottle	

Ammonium molybdate solution 2.5% in nitric acid

Ammonio molibdato soluzione 2.5% in acido nitrico • Ammonium molybdate solution 2.5% dans l'acide nitrique • Amonio molibdato solución 2.5% en acido nítrico

$(NH_4)_6Mo_7O_{24}.4H_2O$
Molecular Weight: 1235,86
CAS: 12054-85-2

Classification transport
ONU: 2031
Transport Hazard class: 8
Packing group II

Danger
H314-H318
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Ammonium molybdate solution 2.5% in nitric acid > RPE - For analysis

RPE

Description ..... Clear liquid
Density at 20° C ..... 1.0 ÷ 1.2

Code	Size	Packaging	Notes
E420371	1 l	Bottle	

Ammonium molybdate solution

Ammonio molibdato soluzione • Ammonium molybdate solution • Amonio molibdato solución

Ammonium molybdate solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611005703	1 l	Plastic bottle	Ammonium molybdate solution R2 Ref Ph.Eur 1005703

Ammonium nitrate
Ammonio nitrato • Ammonium nitrate • Amonio nitrato

NH_4NO_3
Molecular Weight: 80,04
CAS: 6484-52-2
EEC-N: 229-347-8

Classification transport
ONU: 1942
Transport Hazard class: 5.1
Packing group III

Danger
H271
P221-P283-P210a-P280a-P306+P360-P371+P380+P375

Ammonium nitrate > RPE - For analysis - ISO - ACS - Reag.Ph.Eur. - Reag.USP
RPE

Description ..... White crystals
Identification ..... Positive
pH sol. 5% at 25° C ..... 4.5 ÷ 6.0
Water-insoluble matter ..... ≤ 50 ppm
Residue on ignition ..... ≤ 100 ppm
Chloride ..... ≤ 5 ppm
Phosphate ..... ≤ 5 ppm
Nitrite ..... ≤ 5 ppm
Sulphate ..... ≤ 20 ppm
Heavy metals (Pb) ..... ≤ 5 ppm
Fe ..... ≤ 2 ppm
Assay (alkalimetric) ..... ≥ 95 %
Acidity ..... Conform

Code	Size	Packaging	Notes
420425	100 g	Plastic bottle	
420426	500 g	Plastic bottle	
420427	1 kg	Plastic bottle	
420429	5 kg	Plastic jar	
420422	25 kg	Plastic bucket	
420424	50 kg	Fibre drum	

Ammonium nitrate > RE - Pure
RE

Description ..... White pearls
Identification ..... Positive
pH sol. 5% at 25° C ..... 4.6 ÷ 7
Residue on ignition ..... ≤ 0.5 %
Total nitrogen ..... ≥ 34.2 %

Code	Size	Packaging	Notes
315509	5 kg	Plastic jar	
315502	25 kg	Plastic bucket	

Ammonium nitrate 200 mg/L solution
Ammonio nitrato 200 mg/L soluzione • Ammonium nitrate 200 mg/L • Amonio nitrato 200 mg/L solución

NH_4NO_3
Molecular Weight: 80,04
CAS: 6484-52-2

Classification transport
ONU: 1942
Transport Hazard class: 5.1
Packing group III

Danger
H271
P210-P221-P283-P280-P306+P360-P371+P380+P375

Ammonium nitrate 200 mg/L solution > RS - Matrix modifiers for AAS-GTA
RS

Code	Size	Packaging	Notes
503195	50 ml	Plastic bottle	conc. 200 ppm - Matrix : Water

Ammonium oxalate monohydrate
Ammonio ossalato monoidrato • Ammonium oxalate monohydraté • Amonio oxalato monohidrato

Synonym:
Oxalic acid diammonium salt

$(NH_4)_2C_2O_4.H_2O$
Molecular Weight: 142,11
CAS: 6009-70-7
EEC-N: 238-135-4

Warning
H302-H312
P264-P280h-P270-P330-P301+P312a-P302+P352a

Ammonium oxalate monohydrate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP
RPE

Description ..... White crystals
Identification ..... Positive
Water-insoluble matter ..... ≤50 ppm
Residue on ignition ..... ≤200 ppm
Chloride ..... ≤20 ppm
Sulphate ..... ≤20 ppm
Heavy metals (Pb) ..... ≤5 ppm
Fe ..... ≤2 ppm
Assay (oxidimetric) ..... 99.0 ÷ 101.0 %

Code	Size	Packaging	Notes
420475	250 g	Plastic bottle	
420476	500 g	Plastic bottle	
420477	1 kg	Plastic bottle	
420478	2.5 kg	Plastic jar	
420473	25 kg	Plastic bucket	

Ammonium oxalate solution 4%

Ammonio ossalato soluzione 4% • Ammonium oxalate solution 4% • Amonio oxalato solución 4%

$(NH_4)_2C_2O_4.H_2O$
Molecular Weight: 142,11
CAS: 6009-70-7

HEU210

Ammonium oxalate solution 4% > RPE - For analysis

RPE

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 20° C ..... 1.00 ÷ 1.02
Assay (oxidimetric) ..... 3.8 ÷ 4.2 %

Code	Size	Packaging	Notes
E420521	1 l	Bottle	

Ammonium persulfate

Ammonio persolfato • Ammonium persulfate • Amonio persulfato

Synonym:
APS
Ammonium peroxydisulfate

$(NH_4)_2S_2O_8$
Molecular Weight: 228,2
CAS: 7727-54-0
EEC-N: 231-786-5

Classification transport
ONU: 1444
Transport Hazard class: 5.1
Packing group III

Danger
H272-H302-H315-H319-H334-H317-H335
P221-P264-P210a-P304+P340-P305+P351+P338-P342+P311a

Ammonium persulfate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description ..... Yellowish crystals
Identification ..... Positive
Acidity (H2SO4) ..... ≤0.04 meq/g
Water-insoluble matter ..... ≤50 ppm
Residue on ignition ..... ≤500 ppm
Chloride & Chlorate(Cl) ..... ≤10 ppm
Heavy metals (Pb) ..... ≤50 ppm
Fe ..... ≤10 ppm
Mn ..... ≤0.5 ppm
Assay (oxidimetric) ..... ≥98.0 %

Code	Size	Packaging	Notes
420625	100 g	Plastic bottle	
420626	500 g	Plastic bottle	
420627	1 kg	Plastic bottle	
420629	5 kg	Plastic jar	
420623	25 kg	Plastic bucket	

Ammonium persulfate > RE - Pure

RE

Description ..... White crystals or yellowish
Identification ..... Positive
Heavy metals (Pb) ..... ≤ 50 ppm
Fe ..... ≤ 10 ppm
Assay (oxidimetric) ..... ≥ 97.5 %

Code	Size	Packaging	Notes
316008	500 g	Plastic bottle	
316002	25 kg	Drum	

Ammonium phosphate dibasic

Ammonio fosfato bibasico • Ammonium phosphate dibasique • Amonio fosfato dibásico

Synonym:
Ammonium hydrogen phosphate
Diammonium hydrogenphosphate

$(NH_4)_2HPO_4$
Molecular Weight: 132,06
CAS: 7783-28-0
EEC-N: 231-987-8

Warning
H312-H332
P271-P280-P261-P304+P340-P312a-P363

Ammonium phosphate dibasic > RPE - For analysis - ACS - Reag. USP

RPE

Description ..... White crystals
Identification ..... Positive
pH sol. 5% at 25° C ..... 7.7 ÷ 8.1
Water-insoluble matter ..... ≤ 50 ppm
Sulphate ..... ≤ 100 ppm
Chloride ..... ≤ 10 ppm
Nitrate ..... ≤ 30 ppm
Heavy metals (Pb) ..... ≤ 10 ppm
Fe ..... ≤ 10 ppm
K ..... ≤ 50 ppm
Na ..... ≤ 50 ppm
Assay (alkalimetric) ..... ≥ 98.0 %
Ca ..... ≤ 10 ppm
Mg ..... ≤ 5 ppm

Code	Size	Packaging	Notes
419835	100 g	Plastic bottle	
419836	500 g	Plastic bottle	
419837	1 kg	Plastic bottle	
419831	5 kg	Plastic jar	
419832	25 kg	Plastic bucket	
419834	50 kg	Fibre drum	

Ammonium phosphate dibasic > RE - Pure

RE

Description ..... White crystals
Identification ..... Positive
pH sol. 1M ..... 8.00 ÷ 8.50
Water-insoluble matter ..... ≤ 0.05 %
Loss on ignition ..... ≤ 0.1 %
Assay as phosphorus pentoxide .. ≥ 53.5 %
Assay as nitrogen ..... ≥ 20.8 %
Assay (alkalimetric) ..... ≥ 99.5 %

Code	Size	Packaging	Notes
314757	1 kg	Plastic bottle	
314758	2.5 kg	Plastic jar	

Ammonium phosphate monobasic

Ammonio fosfato monobasico • Ammonium phosphate monobasique • Amonio fosfato monobásico

Synonym:
Ammonium dihydrogenphosphate
Monoammonium phosphate

$NH_4H_2PO_4$
Molecular Weight: 115,03
CAS: 7722-76-1
EEC-N: 231-764-5

Ammonium phosphate monobasic > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description ..... White crystals
Identification ..... Positive
pH sol. 5% at 25° C ..... 3.8 ÷ 4.4
Chloride ..... ≤ 5 ppm
Water-insoluble matter ..... ≤ 50 ppm
Heavy metals (Pb) ..... ≤ 5 ppm
Nitrate ..... ≤ 0.001 %
Sulphate ..... ≤ 100 ppm
Ca ..... ≤ 10 ppm
Mg ..... ≤ 5 ppm
Fe ..... ≤ 10 ppm
K ..... ≤ 50 ppm
Na ..... ≤ 50 ppm
Assay (acidimetric) ..... ≥ 98.0 %

Code	Size	Packaging	Notes
419785	100 g	Plastic bottle	
419786	500 g	Plastic bottle	
419787	1 kg	Plastic bottle	

Ammonium phosphate monobasic > RE - Pure

RE

Description ..... White crystals
Identification ..... Positive
pH sol. 5% at 25° C ..... 3.7 ÷ 4.3
Chloride ..... ≤100 ppm
Water-insoluble matter ..... ≤100 ppm
Heavy metals (Pb) ..... ≤50 ppm
Sulphate ..... ≤100 ppm
As ..... ≤2 ppm
Fe ..... ≤50 ppm
Assay (acidimetric) ..... ≥98 %

Code	Size	Packaging	Notes
314507	1 kg	Plastic bottle	
314505	5 kg	Plastic jar	
314504	25 kg	Sack	

Ammonium rhodanide ▶ Ammonium thiocyanate

Ammonium sodium hydrogen phosphate ▶ Sodium ammonium hydrogen phosphate

Ammonium sulfamate

Ammonio solfammato • Ammonium sulfamate • Amonio sulfamato

$NH_4SO_3NH_2$
Molecular Weight: 114,12
CAS: 7773-06-0
EEC-N: 231-871-7

H302
P264-P270-P330-P301+P312-P501a

Ammonium sulfamate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description ..... White crystals
Identification ..... Positive
Melting point ..... 131.0 ÷ 135.0 °C
Residue on ignition ..... ≤0.1 %
Water-insoluble matter ..... ≤200 ppm
Heavy metals (Pb) ..... ≤5 ppm
Assay (oxidimetric) ..... ≥98.0 %

Code	Size	Packaging	Notes
420724	100 g	Glass bottle	
420725	500 g	Glass bottle	

Ammonium sulfate

Ammonio solfato • Ammonium sulfate • Amonio sulfato

Synonym:
Mascagnite

$(NH_4)_2SO_4$
Molecular Weight: 132,14
CAS: 7783-20-2
EEC-N: 231-984-1

Warning
H315-H319-H335
P261-P280-P305+P351+P338-P405-P501a

Ammonium sulfate > RPE - For analysis - ISO - Reag.Ph.Eur.

RPE

Description ..... White crystals
Identification ..... Positive
pH sol. 5% at 25° C ..... 5.0 ÷ 6.0
Water-insoluble matter ..... ≤50 ppm
Residue on ignition ..... ≤100 ppm
Chloride ..... ≤5 ppm
Phosphate ..... ≤5 ppm
Nitrate ..... ≤10 ppm
Heavy metals (Pb) ..... ≤5 ppm
Fe ..... ≤5 ppm
Assay (acc.to Sörensen) ..... ≥99.0 %

Code	Size	Packaging	Notes
420775	100 g	Plastic bottle	
420776	500 g	Plastic bottle	
420777	1 kg	Plastic bottle	
420772	5 kg	Plastic jar	
420771	25 kg	Plastic bucket	
420774	50 kg	Fibre drum	

Ammonium sulfate > RE - Pure

RE

Description ..... White crystals
Identification ..... Positive
pH sol. 5% at 20°C ..... 5 ÷ 6
Chloride ..... ≤ 3 ppm
Nitrate ..... ≤ 10 ppm
Phosphate ..... ≤ 5 ppm
Ca ..... ≤ 10 ppm
Fe ..... ≤ 5 ppm
Heavy metals (Pb) ..... ≤ 5 ppm
Residue on calcination ..... ≤ 0.01 % (SO4)
Assay ..... ≥ 99.0 %

Code	Size	Packaging	Notes
316257	1 kg	Plastic bottle	
316251	5 kg	Plastic jar	
316252	25 kg	Plastic bucket	

Ammonium L(+)tartrate

Ammonio L(+)tartrato • Ammonium L(+)tartrate • Amonio L(+)tartrato

Synonym:
L-(+)-Tartaric acid diammonium salt
Diammonium tartrate

$(CHOHCOONH_4)_2$
Molecular Weight: 184,15
CAS: 3164-29-2
EEC-N: 221-618-9

Ammonium L(+)tartrate > RPE - For analysis

RPE

Description ..... White crystalline powder
Identification ..... Positive
pH sol. 2% at 25° C ..... 6.0 ÷ 7.0
Chloride ..... ≤5 ppm
Total phosphorus ..... ≤5 ppm
Water-insoluble matter ..... ≤50 ppm
Heavy metals (Pb) ..... ≤5 ppm
Residue on ignition ..... ≤100 ppm
Total sulphur ..... ≤50 ppm
Al ..... ≤20 ppm
As ..... ≤0.5 ppm
Ca ..... ≤200 ppm
Cu ..... ≤1 ppm
Fe ..... ≤2 ppm
Mg ..... ≤20 ppm
Ni ..... ≤1 ppm
Pb ..... ≤1 ppm
Zn ..... ≤1 ppm
Assay (acc.to Sörensen) ..... ≥99 %

Code	Size	Packaging	Notes
421206	500 g	Plastic bottle	

Ammonium tetraborate trihydrate

Ammonio tetraborato triidrato • Ammonium tétraborate trihydraté • Amonio tetraborato trihidrato

$NH_4HB_4O_7.3H_2O$
Molecular Weight: 228,33
CAS: 12007-58-8
EEC-N: 234-513-8

Warning
H315-H319-H335
P264-P271-P280-P304+P340-P305+P351+P338-P312a

Ammonium tetraborate trihydrate > RPE - For analysis

RPE

Description ..... White crystalline powder
Identification ..... Positive
pH sol. 5% at 25° C ..... 7.5 ÷ 8.5
Carbonate ..... ≤20 ppm
Chloride ..... ≤3 ppm
Phosphate ..... ≤10 ppm
Water-insoluble matter ..... ≤30 ppm
Heavy metals (Pb) ..... ≤10 ppm
Nitrate ..... ≤5 ppm
Sulphate ..... ≤30 ppm
As ..... ≤1 ppm
Ca ..... ≤50 ppm
Fe ..... ≤2 ppm
K ..... ≤50 ppm
Mg ..... ≤20 ppm
Na ..... ≤50 ppm
Assay (ex ammonium) ..... 97 ÷ 105 %
Assay(ex Boric acid) ..... 97 ÷ 105 %

Code	Size	Packaging	Notes
419127	1 kg	Plastic bottle	

Ammonium thiocyanate

Ammonio solfocianuro • Ammonium thiocyanate • Amonio sulfocianuro

Synonym:
Ammonium rhodanide

NH_4SCN
Molecular Weight: 76,12
CAS: 1762-95-4
EEC-N: 217-175-6

Warning
H302-H312-H332-HEU032
P264-P271-P261-P280h-P304+P340-P330

Ammonium thiocyanate > RPE - For analysis - ISO - ACS - Reag.Ph.Eur. - Reag.USP

RPE

Description ..... White crystals
Identification ..... Positive
pH sol. 5% at 25° C ..... 4.5 ÷ 6.0
Water-insoluble matter ..... ≤50 ppm
Residue on ignition ..... ≤250 ppm
Reducing iodine ..... ≤0.004 meq/g
Chloride ..... ≤50 ppm
Sulphate ..... ≤50 ppm
Heavy metals (Pb) ..... ≤5 ppm
Fe ..... ≤3 ppm
Assay (argentimetric) ..... ≥97.5 %

Code	Size	Packaging	Notes
420885	250 g	Plastic bottle	
420886	500 g	Plastic bottle	
420887	1 kg	Plastic bottle	

Ammonium thiocyanate > RE - Pure

RE

Description ..... White crystals
Identification ..... Positive
Sulphated ash ..... ≤ 0.03 %
S ..... ≤ 20 ppm
Sulphate ..... ≤ 50 ppm
Fe ..... ≤ 2 ppm
Assay (argentimetric) ..... ≥ 99 %

Code	Size	Packaging	Notes
316307	1 kg	Plastic bottle	
316308	5 kg	Plastic jar	
316303	25 kg	Plastic bucket	

Ammonium thiocyanate 0.1 mol/l (0.1N)

Ammonio solfocianuro 0,1 mol/l (0.1N) • Ammonium thiocyanate 0.1 mol/l (0.1N) • Amonio sulfocianuro 0.1 mol/l (0.1N)

NH_4SCN
Molecular Weight: 76,12
CAS: 1762-95-4

Ammonium thiocyanate 0.1 mol/l (0.1N) > RS - For analysis according to Ph. Eur. Chap. 4.2.2

RS

Code	Size	Packaging	Notes
613000501	500 ml	Plastic bottle	Ref Ph.Eur 3000500
613000500	1 l	Plastic bottle	Ref Ph.Eur 3000500

Ammonium thiocyanate 0.1 mol/l (0.1N) > RPE - For analysis

RPE

Description ..... Clear colourless liquid
Assay (potentiometry) ..... 0.0998 - 0.1002 N

Code	Size	Packaging	Notes
420977	1 l	Plastic bottle	

7,612 g of NH4SCN. Volumetric solution ready-to-use: 0,1 N. Stabilized with p-oxybenzoate

Ammonium thiocyanate 0.1 mol/l (0.1N) > RPE - NORMEX - For analysis

RPE

Description ..... Clear colourless liquid
Identification ..... Positive
Titration factor ..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
421001		Plastic ampoule	Volume : 55 ml

7,612 g of NH4SCN. Volumetric concentrated solution to prepare 1 L of solution 0,1 N

Ammonium thiocyanate 0.01 mol/l (0.01N)

Ammonio solfocianuro 0,01 mol/l (0.01N) • Ammonium thiocyanate 0.01 mol/l (0.01N) • Amonio sulfocianuro 0.01 mol/l (0.01N)

NH_4SCN
Molecular Weight: 76,12
CAS: 1762-95-4

Ammonium thiocyanate 0.01 mol/l (0.01N) > RPE - NORMEX - For analysis

RPE

Description ..... Clear colourless liquid
Identification ..... Positive
Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
421061		Plastic ampoule	Volume : 55 ml

0,7612 g of NH4SCN. Volumetric concentrated solution to prepare 1 L of solution 0,01 N

n-Amyl alcohol

Alcole n-amilico • Alcool n-amylique • Alcohol n-amílico

Synonym:
1-Pentanol
Pentyl alcohol

$CH_3(CH_2)_3CH_2OH$
Molecular Weight: 88,15
CAS: 71-41-0
EEC-N: 200-752-1

Classification transport
ONU: 1105
Transport Hazard class: 3
Packing group III

Warning
H226-H332-H315-H335
P210-P241-P264-P303+P361+P353-P304+P340-P403+P235

n-Amyl alcohol > RPE - For analysis

RPE

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 20° C ..... 0.816 ÷ 0.818
Refractive index at 20°C. 1.4081 ÷ 1.4121
Boiling point..... 137.6 ÷ 138.6 °C
Water (K.F.) ..... ≤0.2 %
Residue on evaporation ..... ≤10 ppm
Ca ..... ≤0.5 ppm
Cu ..... ≤0.05 ppm
Fe ..... ≤0.5 ppm
K ..... ≤0.5 ppm
Mg ..... ≤0.5 ppm
Na ..... ≤1 ppm
Pb ..... ≤0.1 ppm
Zn ..... ≤0.5 ppm
Assay (GLC) ..... ≥99 %

Code	Size	Packaging	Notes
413783	1 l	Glass bottle	

n-Amyl alcohol > RE - Pure

RE

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 20° C ..... 0.815 ÷ 0.819
Refractive index at 20°C..... 1.4061 ÷ 1.4141
Water (K.F.) ..... ≤0.2 %
Assay (GLC) ..... ≥98.5 %

Code	Size	Packaging	Notes
307901	1 l	Glass bottle	

tert-Amyl alcohol

Alcole ter-amilico • Alcool tert-amylique • Alcohol ter-amílico

Synonym:
Tert-pentyl alcohol
2-Methyl-2-butanol

$(CH_3)_2C(OH)CH_2CH_3$
Molecular Weight: 88.151
CAS: 75-85-4
EEC-N: 200-908-9

Classification transport
ONU: 1105
Transport Hazard class: 3
Packing group II

Danger
H225-H332-H315-H335
P210-P241-P264-P303+P361+P353-P304+P340-P403+P235

tert-Amyl alcohol > RPE - For analysis

RPE

Description ..... Clear colourless liquid
Identification ..... Positive
Ready carbonizable substances..... Conform
Density at 20° C ..... 0.808 ÷ 0.810
Refractive index at 20°C. 1.4027 ÷ 1.4077
Boiling point..... 101.3 ÷ 102.8 °C
Residue on evaporation ..... ≤10 ppm
Acids and esthers..... ≤500 ppm
Acidity(valerianic.ac) ..... ≤50 ppm
Water (K.F.) ..... ≤0.2 %
Alcalinity (NH3)..... ≤5 ppm
Indole base ..... ≤0.1 ppm
Organic base (N) ..... ≤7 ppm
Carbonyl Compounds (CO) ..... ≤80 ppm
Pyridine and homologues..... ≤30 ppm
Subst. reducing KMnO4..... ≤200 ppm
Cu ..... ≤0.5 ppm
Fe ..... ≤0.5 ppm
Assay (GLC) ..... ≥99.5 %

Code	Size	Packaging	Notes
413941	250 ml	Glass bottle	
413944	1 l	Glass bottle	
413945	25 l	Plastic tank	

Aniline blue soluble in water

Blu anilina solubile in acqua • Bleu d'aniline soluble dans l'eau • Azul de anilina soluble en agua

$C_{32}H_{25}N_3Na_2O_9S_3$
Molecular Weight: 737,74
CAS: 28631-66-5
EEC-N: 249-113-9

Warning
H302-H312-H332
P264-P271-P280-P261-P304+P340-P330

Aniline blue soluble in water > RPE - For analysis - C.I. 42755

RPE

Description ..... Violet powder Identification ..... Positive

Code	Size	Packaging	Notes
428582	25 g	Glass bottle	

Dye for microscopy (botanical-cytology-histology). Indicator acid - base (pH 9.4 ÷ 14.0)

Aniline hydrochloride

Anilina cloridrato • Aniline chlorhydrate • Anilina clorhidrato

$C_6H_5NH_2.HCl$
Molecular Weight: 129,59
CAS: 142-04-1
EEC-N: 205-519-8

Classification transport
ONU: 1548
Transport Hazard class: 6.1
Packing group III

Danger
H301-H311-H331-H318-H317-H341-H351-H372-H400
P264-P273-P271-P304+P340-P305+P351+P338-P301+P310a

Aniline hydrochloride > RPE - For analysis

RPE

Description ..... White crystalline powder Identification ..... Positive Melting point..... 196 ÷ 199 ° C Assay (acidimetric) ..... ≥ 98.5 %

Code	Size	Packaging	Notes
422376	500 g	Plastic bottle	

Anisaldehyde

Aldeide anisica • Aldéhyde anisique • Aldehído anísico

Synonym:
p-Anisaldehyde
4-Methoxybenzaldehyde

$4\text{-}CH_3OC_6H_4CHO$
Molecular Weight: 136,15
CAS: 123-11-5
EEC-N: 204-602-6

Warning
H302
P264-P270-P330-P301+P312a-P501a

Anisaldehyde > RE - Pure

RE

Description ..... Clear yellow liquid Density at 20° C ..... 1.121 ÷ 1.125 Assay (GLC) ..... ≥99 %
Identification ..... Positive Refractive index at 20°C..... 1.5710 ÷ 1.5750

Code	Size	Packaging	Notes
415312	100 ml	Glass bottle	

Anisaldehyde solution

Aldeide anisica soluzione • Aldéhyde anisique solution • Aldehído anísico solución

Classification transport
ONU: 1993

Anisaldehyde solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611007301	100 ml	Glass bottle	Ref Ph.Eur 1007301
611007302	100 ml	Glass bottle	Anisaldehyde solution R1 Ref Ph.Eur 1007302

Anisic acid

Acido anisico • Acide anisique • Acido anísico

Synonym:
4-Methoxybenzoic acid
Draconic acid

$CH_3OC_6H_4COOH$
Molecular Weight: 152,15
CAS: 100-09-4
EEC-N: 202-818-5

Warning
H302-H315-H319-H335
P264-P271-P304+P340-P305+P351+P338-P330-P332+P313

Anisic acid > RPE - For analysis

RPE

Description .... White to slightly grey - beige powder
Identification ..... Positive
Melting point..... 181 ÷ 186 °C
Assay (GLC) ..... ≥ 97.5 %

Code	Size	Packaging	Notes
402132	25 g	Glass bottle	
402133	100 g	Glass bottle	

Anthrone

Antrone • Anthrone • Antrona

Synonym:
9(10H)-Anthracenone

$C_6H_4COC_6H_4CH_2$
Molecular Weight: 194,23
CAS: 90-44-8
EEC-N: 201-994-0

Warning
H315-H319-H335
P264-P271-P304+P340-P305+P351+P338-P312a-P332+P313

Anthrone > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description ..... Yellow crystals
Identification ..... Positive
Melting point..... 154 ÷ 158 °C
Absorbance of reag.sol. ..... Conform
Solub.ty in Dieth.Ether ..... Conform
Sens. to carbohydrates ..... Conform

Code	Size	Packaging	Notes
423281	10 g	Glass bottle	
423282	25 g	Glass bottle	

For the determination of carbohydrates

Antimony, powder

Antimonio, polvere • Antimoine, poudre • Antimonio, polvo

Sb
Molecular Weight: 121,75
CAS: 7440-36-0
EEC-N: 231-146-5

Classification transport
ONU: 2871
Transport Hazard class: 6.1
Packing group III

H411
P273-P391-P501a

Antimony, powder > RPE - For analysis

RPE

Description ..... Grey powder
Identification ..... Positive
Assay (oxidimetric) .....≥99 %

Code	Size	Packaging	Notes
422782	50 g	Glass bottle	
422786	500 g	Glass bottle	

Antimony standard solution

Antimonio standard soluzione • Antimoine standard solution • Antimonio, solución patrón

Classification transport
ONU: 3264
Transport Hazard class: 8
Packing group II

Danger
H314-H319-H335
P264-P271-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Antimony standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2

RS

Code	Size	Packaging	Notes
615000400	100 ml	Plastic bottle	A 100 ppm solution Ref Ph.Eur 5000400

Antimony standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505832	100 ml	Plastic bottle	conc. 10 ppm Matrix : Nitric acid and hydrofluoric acid
505835	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid and hydrofluoric acid
505833	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid and hydrofluoric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Antimony standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
503891	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
503899	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid and hydrofluoric acid
503895	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrochloric acid
503893	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
503898	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrofluoric acid and nitric acid
503897	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrochloric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Antimony standard solution > RS - Standard solution for AAS

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
E497415	100 ml	Glass bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
507525	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid and hydrofluoric acid
507479	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid and hydrofluoric acid
E497411	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Antimony standard solution > RS - NORMEX - Concentrated solution for AAS

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
422731		Plastic ampoule	conc. 1.000 ppm Matrix : Hydrochloric acid - Volume : 50 ml

Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package

Antimony potassium tartrate

Antimonio potassio tartrato • Antimoine potassium tartrate • Antimonio y potasio tartrato

Synonym:
Potassium antimonyl tartrate trihydrate

$C_4H_2KO_6Sb_6.1,5H_2O$
Molecular Weight: 667,87
CAS: 28300-74-5

Classification transport
ONU: 1551
Transport Hazard class: 6.1
Packing group III

Warning
H302-H332-H411
P264-P273-P271-P261-P304+P340-P330

Antimony potassium tartrate > RPE - For analysis - Reag. Ph.Eur.

RPE

Description ..... White crystalline powder Chloride..... ≤ 0.005 % Loss on drying (105°C)..... ≤ 2.7 %
Identification ..... Positive Fe ..... ≤ 0.001 % As ..... ≤ 0.015 %
pH sol. 2% at 20°C ..... 3.8 - 4.5 Water insoluble substances..... ≤ 0.05 % Assay (iodometric) ..... ≥ 99.0 %

Code	Size	Packaging	Notes
423035	250 g	Plastic bottle	
423036	500 g	Plastic bottle	
423037	1 kg	Plastic bottle	

Antimony trichloride

Antimonio tricloruro • Antimoine trichlorure • Antimonio tricloruro

Synonym:
Antimony(III) chloride

$SbCl_3$
Molecular Weight: 228,11
CAS: 10025-91-9

Classification transport
ONU: 2922
Transport Hazard class: 8
Packing group II

Danger
H302-H310-H331-H314-H318-H351-H361d-H335-H372-H412-HEU301
P264-P273-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Antimony trichloride > RS - For analysis according to Ph. Eur. Chap. 4.1.1 — RS

Code	Size	Packaging	Notes
611007701	100 ml	Glass bottle	Ref Ph.Eur 1007701

Antimony trichloride > RPE - For analysis - ACS — RPE

Description ..... White crystals
Identification ..... Positive
Chloroform insoluble ..... ≤ 500 ppm
Sulphate ..... ≤ 50 ppm
As ..... ≤ 200 ppm
Ca ..... ≤ 50 ppm
Cu ..... ≤ 10 ppm
Fe ..... ≤ 20 ppm
K ..... ≤ 100 ppm
Na ..... ≤ 200 ppm
Pb ..... ≤ 50 ppm
Assay (iodometric) ..... ≥ 99.0 %

Code	Size	Packaging	Notes
422834	100 g	Glass bottle	
422835	250 g	Glass bottle	

Aqueous calcium hydroxide

Acqua di calce • Eau de chaux • Calcio hidróxido acuoso

Aqueous calcium hydroxide > RPE - For analysis — RPE

Description ..... Clear liquid
Identification ..... Positive
Assay ..... 0.140 ÷ 0.169 % (p/p)

Code	Size	Packaging	Notes
E411921	1 l	Plastic bottle	

Acquovitrex-Erba

Acquovitrex-Erba • Acquovitrex-Erba • Acquovitrex-Erba

HEU210

Acquovitrex-Erba > RS - Aqueous mounting medium for histology — RS

Description ..... Yellow clear liquid
Identification ..... Positive
Density at 20° C ..... 1.01 ÷ 1.02
Refractive index at 20°C ..... 1.34 ÷ 1.36

Code	Size	Packaging	Notes
412194	6 x 100 ml	Glass bottle	

L(+)Arginine

L(+)Arginina • L(+)Arginine • L(+)Arginina

Synonym:
(S)-2-Amino-5-guanidinopentanoic acid

$C_6H_{14}N_4O_2$
Molecular Weight: 174,2
CAS: 74-79-3
EEC-N: 200-811-1

Warning
H319
P264-P280i-P305+P351+P338-P337+P313

L(+)Arginine > RPE - For analysis — RPE

Description ..... White crystalline powder
Identification ..... Positive
Melting point ..... ≥230 ° C
Specific optical rotation ..... +26.3 ÷ +27.7 °
Assay (non-aqueos medium) ..... ≥98 %

Code	Size	Packaging	Notes
424271	100 g	Glass bottle	

L(+)Arginine monohydrochloride

L(+)Arginina monocloridrato • L(+)Arginine monochlorhydratée • L(+)Arginina monoclorhidrato

Synonym:
(S)-(+)-2-Amino-5-[(aminoiminomethyl)amino] pentanoic acid monohydrochloride

$C_6H_{14}N_4O_2 \cdot HCl$
Molecular Weight: 210,66
CAS: 1119-34-2
EEC-N: 214-275-1

Warning
H315-H319
P264-P280-P305+P351+P338-P332+P313-P337+P313-P302+P352a

L(+)Arginine monohydrochloride > RPE - For analysis

RPE

Description ..... White powder
Identification ..... Positive
Potere rotat. spec. (c=8; HCl 6N).. +21.4 ÷ +23.5 ° s.s.
Loss on drying ..... ≤ 0.2 %
Ammonium ..... ≤ 200 ppm
Water-insoluble matter ..... ≤ 100 ppm
Heavy metals (Pb) ..... ≤ 10 ppm
Residue on ignition ..... ≤ 0.1 %
Sulphate ..... ≤ 300 ppm
Fe ..... ≤ 10 ppm
Assay (non-aqueos medium) . 98.5 ÷ 101.0 % s.s.

Code	Size	Packaging	Notes
424268	5 g	Glass bottle	

Arsenazo III

Arsenazo III • Arsenazo III • Arsenazo III

Synonym:
2,7-Bis(2-arsonophenylazo)chromotropic acid

$C_{22}H_{16}As_2N_4O_{14}S_2Na_2$
Molecular Weight: 774,36
CAS: 1668-00-4
EEC-N: 216-788-6

Classification transport
ONU: 3465
Transport Hazard class: 6.1
Packing group II

Danger
H301-H331-H410
P264-P273-P271-P304+P340-P301+P310a-P330

Arsenazo III > RPE - For analysis

RPE

Description ..... Brown granular powder
Identification ..... Positive
Sens.as complex.indicat ..... Conform

Code	Size	Packaging	Notes
424281	1 g	Glass bottle	
424282	25 g	Glass bottle	

Suitable for determination of Th, Zr, U, Cd, Zn, Ca

Arsenic standard solution

Arsenico standard soluzione • Arsenic standard solution • Arsenic, solución patrón

Danger
H350-HA26
P280-P201-P202-P308+P313-P405-P501a

Arsenic standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2

RS

Code	Size	Packaging	Notes
615000501	100 ml	Plastic bottle	A 1 ppm solution : to dilute according to Ref Ph.Eur 5000501
615000502	100 ml	Plastic bottle	A 0.1 ppm solution : to dilute according to Ref Ph.Eur 5000502
615000509	100 ml	Plastic bottle	A 10 ppm solution : to dilute according to Ref Ph.Eur 5000500

Arsenic standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505312	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505315	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid
505313	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Arsenic standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
503421	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503425	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
503423	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503427	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Arsenic standard solution > RS - Standard solution for AAS

RS

Code	Size	Packaging	Notes
504439	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
507496	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Arsenic trioxide solution

Arsenico triossido soluzione • Arsenic trioxyde solution • Arsénico trióxido solución

Synonym:
Arsenic(III) oxide
Arsenic trioxide

As_2O_3
Molecular Weight: 197.84
CAS: 1327-53-3

Arsenic trioxide solution > RS - For analysis according to USP

RS

Code	Size	Packaging	Notes
617000001	100 ml	Plastic bottle	Arsenic trioxyde stock solution

L(+)Ascorbic acid

Acido L(+)ascorbico • Acide L(+)ascorbique • Acido L(+)ascórbico

Synonym:
Vitamin C
L-Threoascorbic acid

COCOH:COHCHCHOHCH$_2$OH
Molecular Weight: 176,13
CAS: 50-81-7
EEC-N: 200-066-2

L(+)Ascorbic acid > RPE - For analysis - ISO

RPE

Description .....White crystal. powder
Identification ..... Positive
Melting point..... 190.5 ÷ 192.0 °C
Specific optical rotation... +20.5 ÷ +21.5 °
Loss on drying ..... ≤ 0.1 %
Chloride..... ≤ 50 ppm
Water-insoluble matter ..... ≤ 30 ppm
Heavy metals (Pb).....≤10 ppm
Residue on ignition.....≤300 ppm
Sulphate..... ≤ 20 ppm
Cu.....≤0.3 ppm
Fe .....≤2 ppm
Pb.....≤0.5 ppm
Assay (oxidimetric) ..... ≥99.0 %

Code	Size	Packaging	Notes
402404	100 g	Plastic bottle	
402406	500 g	Plastic bottle	
402407	1 kg	Plastic bottle	

L(+)Asparagine

L(+)Asparagina • L(+)Asparagine • L(+)Asparagina

Synonym:
(S)-(+)-2-Aminosuccinamic acid
L-Aspartic acid 4-amide

$C_4H_8N_2O_3.H_2O$
Molecular Weight: 150,14
CAS: 5794-13-8

L(+)Asparagine > RPE - For analysis

RPE

Description ..... White crystalline powder
Identification (I.R.)..... Positive
Specific optical rotation... +33.5 ÷ +36.5 °
Loss on drying .....11.5 ÷ 12.5 %
Residue on ignition..... ≤ 0.1 %
Heavy metals (Pb).....≤ 10 ppm
As .....≤ 1 ppm
Fe .....≤ 10 ppm
Ammonium ..... ≤ 0.1 %
Chloride..... ≤ 0.02 %
Sulphate..... ≤ 0.03 %
Assay (non-aqueos medium)98.5÷101.0 % (s.s.)

Code	Size	Packaging	Notes
424544	100 g	Glass bottle	
424547	1 kg	Plastic bottle	

L(+)Aspartic acid

Acido L(+)aspartico • Acide L(+)aspartique • Acido L(+)aspártico

Synonym:
(S)-(+)-Aminosuccinic acid
(S)-Aminobutanedioic acid

$HOOCCHNH_2CH_2COOH$
Molecular Weight: 133,1
CAS: 56-84-8
EEC-N: 200-291-6

L(+)Aspartic acid > RE - Pure

RE

Description ..... White crystalline powder
Identification ..... Positive
Potere rotat. spec. (c=8; HCl 6N)..... +24 ÷ +26 °
Loss on drying ..... ≤ 0.2 %
Ammonium ..... ≤ 500 ppm
Chloride ..... ≤ 200 ppm
Sulphate ..... ≤ 300 ppm
As ..... ≤ 1 ppm
Fe ..... ≤ 10 ppm
Heavy metals (Pb) ..... ≤ 10 ppm
Residue on ignition ..... ≤ 0.1 %
Assay (non-aqueos medium) ≥ 98.0 % (s.s.)

Code	Size	Packaging	Notes
402442	25 g	Glass bottle	

ASTM colour standards

Standard del colore ASTM • Etalons couleurs ASTM • Patrones de color ASTM

Classification transport
ONU: 2810
Transport Hazard class: 6.1
Packing group II

Danger
H300-H304
P264-P270-P301+P310a-P330-P331-P321

ASTM colour standards > RS - For calibration

RS

Code	Size	Packaging	Notes
540601	100 ml	Glass bottle	Sample A1
540602	100 ml	Glass bottle	Sample A3
540603	100 ml	Glass bottle	Sample A5
540604	100 ml	Glass bottle	Sample A5

Ausilab 110

Ausilab 110 • Ausilab 110 • Ausilab 110

Warning
H319-HEU208
P264-P280i-P305+P351+P338-P337+P313

Ausilab 110 > RE - Pure - For glassware manual washing

RE

Code	Size	Packaging	Notes
FG201149	4 x 5 kg	Plastic tank	

Multi-purpose detergent concentrate liquid, neutral. Contains : Anionic surfactants (15-30%), less than 5% emollients. Use : diluted in water, very foaming

Ausilab 140

Ausilab 140 • Ausilab 140 • Ausilab 140

Danger
H315-H318
P264-P280g-P280i-P305+P351+P338-P332+P313-P302+P352a

Ausilab 140 > RE - Pure - For glassware manual washing

RE

Code	Size	Packaging	Notes
FG201220	4 x 5 kg	Plastic tank	

Degreaser concentrate, liquid, alkaline. Contains : EDTA and salts (5-15%), ,non-ionic surfactants (5-15%. Use : diluted in water

Ausilab 210
Ausilab 210 • Ausilab 210 • Ausilab 210

Danger
H315-H318
P264-P280g-P280i-P305+P351+P338-P332+P313-P302+P352a

Ausilab 210 > RE - Pure - For glassware washers
RE

Code	Size	Packaging	Notes
FG201138	8 kg	Plastic bucket	

Detergent for glassware washers, powder, alkaline (suitable for use in the food industry). Contains : over than 30% of phosphates, less than 5% non-ionic surfactants. Use : concentration as dirt and water hardness

Ausilab 250
Ausilab 250 • Ausilab 250 • Ausilab 250

Warning
H319
P264-P280i-P305+P351+P338-P337+P313

Ausilab 250 > RE - Pure - For glassware washers
RE

Code	Size	Packaging	Notes
FG201139	4 x 5 kg	Plastic tank	

Neutralizing detergent for glassware washers, liquid, acid. Contains : over than 30% of organics acids. Use : for washers with automatic metering

Ausilab 260
Ausilab 260 • Ausilab 260 • Ausilab 260

NaCl
Molecular Weight: 58.44
CAS: 7647-14-5

Ausilab 260 > RE - Pure - For glassware washers
RE

Code	Size	Packaging	Notes
FG20C1156C5	5 kg	Plastic bucket	

Regenerating salt for dishwashers

Ausilab 280
Ausilab 280 • Ausilab 280 • Ausilab 280

Classification transport
ONU: 1719
Transport Hazard class: 8
Packing group III

Danger
H314
P264-P260h-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Ausilab 280 > RE - Pure - For glassware washers
RE

Code	Size	Packaging	Notes
FG201151	4 x 5 kg	Plastic tank	

Dishwashing detergent, liquid, alkaline (suitable for use in the food industry). Contains : over than 30% E.D.T.A., NaOH (5-15%). Use : For dishwashers with automatic metering

Ausilab 290
Ausilab 290 • Ausilab 290 • Ausilab 290

Ausilab 290 > RE - Pure - For glassware washers
RE

Code	Size	Packaging	Notes
FG201200	4 x 6 kg	Plastic tank	

Dishwashing detergent, liquid, alkaline, manufactured according to Ecocert standard. Contains : over than 30% Citrates and gluconates, NaOH (5-15%). Use : For dishwashers with automatic metering

Ausilab 310
Ausilab 310 • Ausilab 310 • Ausilab 310

Classification transport
ONU: 1903
Transport Hazard class: 8
Packing group III

Danger
H314-H410-HEU031
P264-P273-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Ausilab 310 > RE - Pure - For surfaces disinfection
RE

Code	Size	Packaging	Notes
FG200074	4 x 6 kg	Plastic tank	

Chlorinated detergent bactericidal fungicide, liquid, alkaline. Contains sodium hypochlorite, sodium hydroxide and less than 5% non-ionic surfactants and phosphonates. Use : Direct spray of pure or diluted product, dipping bath, cleaning of circuits

Ausilab 320
Ausilab 320 • Ausilab 320 • Ausilab 320

Classification transport
ONU: 1903
Transport Hazard class: 8
Packing group III

Danger
H315-H318-H410
P264-P273-P280g-P280i-P305+P351+P338-P332+P313

Ausilab 320 > RE - Pure - For surfaces disinfection
RE

Code	Size	Packaging	Notes
FG200075	4 x 5 kg	Plastic tank	

Bactericidal detergent, liquid, acid. Contains : Docyldimethylammonium chloride, aliphatic alcohol and organic acid (5-15%), less than 5% non-ionic surfactants. Use : Direct spray of pure or diluted product, dipping bath, cleaning of circuits

Ausilab 330
Ausilab 330 • Ausilab 330 • Ausilab 330

Classification transport
ONU: 1903
Transport Hazard class: 8
Packing group III

Danger
H314-H410
P264-P273-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Ausilab 330 > RE - Pure - For surfaces disinfection
RE

Code	Size	Packaging	Notes
FG200276	4 x 5 kg	Plastic tank	

Bactericidal detergent fungicide, liquid, alkaline. Contains : Dodecyldimethylammonium chloride, aliphatic alcohol (5-15%), 2-aminoethanol, Less than 5% non-ionic surfactants and EDTA. Use : Direct spray of pure or diluted product, dipping bath, cleaning of circuits

Ausilab 400
Ausilab 400 • Ausilab 400 • Ausilab 400

Classification transport
ONU: 1987
Transport Hazard class: 3
Packing group III

Warning
H226-H319
P210-P241-P264-P303+P361+P353-P305+P351+P338-P403+P235

Ausilab 400 > RE - Pure - For hand washing cream
RE

Code	Size	Packaging	Notes
FG201146	6 x 800 ml	Bag	

Alcoholic sanitizing gel, neutral. Contains : over 50% than alcohols, moisturizing agents (5-15%), benzalkonium chloride (0-1%). Use : Pure

Ausilab 500
Ausilab 500 • Ausilab 500 • Ausilab 500

Danger
H315-H318-HEU208
P264-P280g-P280i-P305+P351+P338-P332+P313-P302+P352a

Ausilab 500 > RE - Pure - For washing
RE

Code	Size	Packaging	Notes
FG201140	15 x 750 ml	Bag	

Purpose cleaner. Contains between 5 and 15% of alcohols, less than 5% non-ionic surfactants. Use : Direct spray of pure product

Azobenzene
Azobenzene • Azobenzène • Azobenceno

$C_6H_5N{:}NC_6H_5$
Molecular Weight: 182,23
CAS: 103-33-3
EEC-N: 203-102-5

Classification transport
ONU: 3077
Transport Hazard class: 9
Packing group III

Danger
H302-H332-H341-H350-H373-H410-HA26
P264-P273-P271-P280-P304+P340-P308+P313

Azobenzene > RPE - For analysis
RPE

Description . Red-orange crystalline powder Identification ..... Positive Melting point..... 67 ÷ 69 ° C Assay (oxidimetric) .....98 ÷ 100 %

Code	Size	Packaging	Notes
424701	5 g	Glass bottle	
424702	100 g	Glass bottle	

Azomethine H
Azometina H • Azométhine H • Azometino H

Synonym:
4-Hydroxy-5-(2-hydroxybenzylideneamino)-naphthalene-2,7-disulfonic acid monosodium salt hydrate

$C_{17}H_{12}NNaO_8S_2{\cdot}xH_2O$
Molecular Weight: 445,4
CAS: 206752-32-1

Warning
H315-H319-H335
P264-P271-P280-P304+P340-P305+P351+P338-P312a

Azomethine H > RPE - For analysis
RPE

Description ..... Yellow orange powder Identification ..... Positive

Code	Size	Packaging	Notes
424691	10 g	Glass bottle	
424692	25 g	Glass bottle	

Suitable for the determination of boron

Azure II
Azzurro II • Azur II • Azur II

CAS: 37247-10-2

Classification transport
ONU: 2811
Transport Hazard class: 6.1
Packing group III

Danger
H318
P280-P305+P351+P338-P310a

Azure II > RS - For microscopy - C.I. 52010/52015
RS

Description ..... Polvere nera con riflessi verdi Maximum absorption..... 645 ÷ 650 nm Loss on drying at 110°C.....≤ 15 %
Identification ..... Positive E 1% / 1 cm on dried substance ..... 1850 ÷ 2100

Code	Size	Packaging	Notes
424721	5 g	Glass bottle	

Dye for bacteriology and hematology. Mix Azur - methylene blue

Azure II eosin

Azzurro II eosina • Azur II Eosine • Azur II Eosina

Synonym:
Azure II eosinate

CAS: 53092-85-6

Classification transport
ONU: 2811
Transport Hazard class: 6.1
Packing group III

Danger
H332-H318
P271-P280-P261-P304+P340-P305+P351+P338-P310a

Azure II eosin > RS - For microscopy - C.I. 52010/52015/45380

RS

Description .....Polvere blu scuro
Identification .....Positive
Maximum absorption (red) .. 520 ÷ 530 nm
Maximum absorption (blue). 645 ÷ 660 nm
Absorption ratio (red).....1.00 ÷ 1.20
Absorption ratio (blue).....1.25 ÷ 1.35
Loss on drying at 105°C..... ≤ 10 %

Code	Size	Packaging	Notes
424731	5 g	Glass bottle	

Dye for bacteriology, hematology histopathology. Mix Azur - Methylene blue - eosin

Barbituric acid

Acido barbiturico • Acide barbiturique • Acido barbitúrico

Synonym:
2,4,6-Trihydroxypyrimidine

$NHCONHCOCH_2CO$
Molecular Weight: 128,12
CAS: 67-52-7
EEC-N: 200-658-0

Barbituric acid > RPE - For analysis - Reag. Ph. Eur.

RPE

Description ..... White crystalline powder Identification ..... Positive Melting point..... 248 ÷ 255 ° C Assay (acidimetric) .....99.0 ÷ 101.0 %

Code	Size	Packaging	Notes
402532	25 g	Glass bottle	
402535	250 g	Glass bottle	

Barium standard solution

Bario standard soluzione • Baryum standard solution • Bario, solución patrón

Classification transport
ONU: 3264
Transport Hazard class: 8
Packing group III

Barium standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2

RS

Code	Size	Packaging	Notes
615000601	100 ml	Plastic bottle	A 0.1 % solution Ref Ph.Eur 5000601
615000609	100 ml	Plastic bottle	A 50 ppm solution : to dilute according to Ref Ph.Eur 5000600

Barium standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505327	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505328	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid
505329	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Barium standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
503451	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
503455	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrochloric acid
503453	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
503457	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrochloric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Barium standard solution > RS - Standard solution for AAS

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
507527	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
E497445	100 ml	Glass bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
507481	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
E497441	500 ml	Glass bottle	conc. 1.000 ppm Matrix : Hydrochloric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Barium standard solution > RS - NORMEX - Concentrated solution for AAS

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
424861		Plastic ampoule	conc. 1.000 ppm Matrix : Nitric acid - Volume : 50 ml

Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package

Barium acetate

Bario acetato • Baryum acétate • Bario acetato

$Ba(CH_3COO)_2$
Molecular Weight: 255,42
CAS: 543-80-6
EEC-N: 208-849-0

Warning
H302-H332
P264-P271-P261-P304+P340-P330-P301+P312a

Barium acetate > RPE - For analysis - ACS

RPE

K.....≤ 30 ppm
Description ..... White crystalline powder
Identification ..... Positive
Water-insoluble matter .....≤ 100 ppm
Oxidizing subst.(NO3) .....≤ 50 ppm
Chloride.....≤ 10 ppm
Heavy metals (Pb).....≤ 5 ppm
Ca.....≤ 500 ppm
Na.....≤ 50 ppm
Fe .....≤ 10 ppm
Sr..... ≤ 0.2 %
Assay (complexometric) ....99.0 ÷ 102.0 %

Code	Size	Packaging	Notes
424895	100 g	Plastic bottle	
424896	500 g	Plastic bottle	
424897	1 kg	Plastic bottle	

Barium carbonate

Bario carbonato • Baryum carbonate • Bario carbonato

$BaCO_3$
Molecular Weight: 197,34
CAS: 513-77-9
EEC-N: 208-167-3

Warning
H302
P264-P270-P330-P301+P312a-P501a

Barium carbonate > RPE - For analysis - ACS - Reag. Ph.Eur.

RPE

Description ..... White powder
Identification ..... Positive
Water-soluble titrable base .≤ 0.002 meq/g
HCl-insoluble matter.....≤ 150 ppm
Oxidizing subst.(NO3) .....≤ 50 ppm
Chloride.....≤ 20 ppm
Sulphide .....≤ 10 ppm
Heavy metals (Pb).....≤ 10 ppm
Ca.....≤ 500 ppm
Fe .....≤ 20 ppm
Sr..... ≤ 0.7 %
Assay (alkalimetric).....99.0 ÷ 101.0 %
K.....≤ 50 ppm
Na.....≤ 200 ppm

Code	Size	Packaging	Notes
424945	250 g	Plastic bottle	
424943	25 kg	Plastic bucket	

Barium carbonate > RE - Pure

RE

Description ..... Hazel-white powder Identification ..... Positive Fe .....≤ 50 ppm Assay (alkalimetric)..... ≥ 99.0 %

Code	Size	Packaging	Notes
321507	1 kg	Plastic bottle	
321502	25 kg	Plastic bucket	

Barium chloride dihydrate

Bario cloruro diidrato • Baryum chlorure dihydraté • Bario cloruro dihidratado

$BaCl_2.2H_2O$
Molecular Weight: 244,27
CAS: 10326-27-9
EEC-N: 233-788-1

Classification transport
ONU: 1564
Transport Hazard class: 6.1
Packing group III

Danger
H301-H332-H319
P264-P271-P304+P340-P305+P351+P338-P301+P310a-P312a

Barium chloride dihydrate > RPE - For analysis - ACS

RPE

Description .....White crystals
Identification ..... Positive
pH sol. 5% at 25° C .....5.2 ÷ 8.2
Loss on drying 150° C.....14 ÷ 16 %
Ammonium.....≤ 10 ppm
Heavy metals (Pb).....≤ 2.5 ppm
Nitrate,Chlorate (NO3) .....≤ 10 ppm
Ca.....≤ 20 ppm
Cu.....≤ 1 ppm
Fe .....≤ 1 ppm
K.....≤ 40 ppm
Na.....≤ 100 ppm
Ni.....≤ 1 ppm
Pb.....≤ 2 ppm
Zn.....≤ 4 ppm
Assay (argentimetric)..... ≥ 99 %
Water-insoluble matter ..... ≤ 0.05 %
Substanc. not ppt H2SO4..... ≤ 0.03 %
Sr..... ≤ 0.05 %

Code	Size	Packaging	Notes
425025	100 g	Plastic bottle	
425026	500 g	Plastic bottle	
425027	1 kg	Plastic bottle	
425029	5 kg	Plastic jar	
425022	25 kg	Plastic bucket	

Barium chloride dihydrate > RE - Pure

RE

Description ..... White crystals
Identification ..... Positive
Assay (argentimetric).....≥98 %

Code	Size	Packaging	Notes
321757	1 kg	Plastic bottle	
321758	5 kg	Plastic jar	
321752	25 kg	Plastic bucket	

Barium chloride solution 10%

Bario cloruro soluzione 10% • Baryum chlorure solution 10% • Baryum chlorure solution 10%

$BaCl_2.2H_2O$
Molecular Weight: 244,27
CAS: 10326-27-9

Warning
H302
P264-P270-P330-P301+P312a-P501a

Barium chloride solution 10% > RPE - For analysis

RPE

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 15° C .....1.08 ÷ 1.10
Assay (argentimetric).....9.5 ÷ 10.5 %

Code	Size	Packaging	Notes
E425101	1 l	Plastic bottle	

Suitable for water analysis

Barium chloride solution 0.14%

Bario cloruro soluzione 0.14% • Baryum chlorure solution 0.14% • Baryum chlorure solution 0.14%

$BaCl_2.2H_2O$
Molecular Weight: 244,27
CAS: 10326-27-9

Barium chloride solution 0.14% > RPE - For analysis

RPE

Description ..... Clear colourless liquid
Identification ..... Positive

Code	Size	Packaging	Notes
E425171	1 l	Plastic bottle	

Suitable for wine analysis according to Marty

Barium chloride 0.1 mol/l (0.2N)

Bario cloruro 0.1 mol/l (0.2N) • Baryum chlorure 0.1 mol/l (0.2N) • Bario cloruro 0.1 mol/l (0.2N)

$BaCl_2$ HEU210
CAS: 10326-27-9

Barium chloride 0.1 mol/l (0.2N) > RS - For analysis according to Ph. Eur. Chap. 4.2.2 RS

Code	Size	Packaging	Notes
613000600	1 l	Plastic bottle	Ref Ph.Eur 3000600

Barium chloride solution 61 g/l

Bario cloruro soluzione 61 g/l • Baryum chlorure 61g/l • Bario cloruro solución 61 g/l

$BaCl_2$
Molecular Weight: 208,25
CAS: 10361-37-2

Barium chloride solution 61 g/l > RS - For analysis according to Ph. Eur. Chap. 4.1.1 RS

Code	Size	Packaging	Notes
611009303	100 ml	Plastic bottle	Barium chloride solution R1 Ref Ph.Eur 1009301
611009309	250 ml	Plastic bottle	Barium chloride solution R1 Ref Ph.Eur 1009301
611009301	1 l	Plastic bottle	Barium chloride solution R1 Ref Ph.Eur 1009301

Barium chloride 30g/L

Bario cloruro 30g/L • Baryum chlorure 30g/l • Bario cloruro 30g/L

$BaCl_2$
Molecular Weight: 244.27
CAS: 10326-27-9

Barium chloride 30g/L > RS - For analysis according to JP RS

Code	Size	Packaging	Notes
616001018	100 ml	Plastic bottle	Barium chloride TS

Barium chloride 30g/L > RS - For analysis according to USP RS

Code	Size	Packaging	Notes
617000161	100 ml	Plastic bottle	Barium chloride TS

Barium hydroxide octahydrate

Bario idrossido ottaidrato • Baryum hydroxyde octahydraté • Bario hidróxido octahidrato

$Ba(OH)_2.8H_2O$
Molecular Weight: 315,48
CAS: 12230-71-6
EEC-N: 241-234-5

Classification transport
ONU: 1564
Transport Hazard class: 6.1
Packing group III

Danger
H302-H314-HEU071
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Barium hydroxide octahydrate > RPE - For analysis RPE

Description ..... White crystals	Chloride ..... ≤10 ppm	Sulphide ..... ≤5 ppm	Sr ..... ≤1.5 %
Identification ..... Positive	HCl-insoluble matter ..... ≤50 ppm	Ca ..... ≤50 ppm	Assay (alkalimetric) ..... ≥98.0 %
Carbonate ..... ≤2.0 %	Heavy metals (Pb) ..... ≤5 ppm	Fe ..... ≤5 ppm	

Code	Size	Packaging	Notes
425295	100 g	Plastic bottle	
425296	500 g	Plastic bottle	
425297	1 kg	Plastic bottle	
425292	25 kg	Drum	

Barium hydroxide octahydrate > RE - Pure

RE

Description ..... White crystals
Identification ..... Positive
Chloride ..... ≤100 ppm
HCl-insoluble matter ..... ≤500 ppm
Heavy metals (Pb) ..... ≤30 ppm
Fe ..... ≤50 ppm
Assay (alkalimetric) ..... ≥95 %

Code	Size	Packaging	Notes
322007	1 kg	Plastic bottle	
322009	5 kg	Plastic jar	
322001	25 kg	Plastic bucket	
322004	50 kg	Plastic bucket	

Barium hydroxide solution 5%

Bario idrossido soluzione 5% • Baryum hydroxyde solution 5% • Baryum hydroxyde solution 5%

$Ba(OH)_2.8H_2O$
Molecular Weight: 315,48
CAS: 12230-71-6

Classification transport
ONU: 1760
Transport Hazard class: 8
Packing group II

Danger
H314
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Barium hydroxide solution 5% > RPE - For analysis

RPE

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 20° C ..... ≥1.03
Assay ..... 4.7 ÷ 5.3 % (p/p)

Code	Size	Packaging	Notes
E425301	1 l	Bottle	

Barium hydroxide solution 47.3 g/l

Bario idrossido soluzione 47.3 g/l • Baryum hydroxyde solution 47.3 g/l • Bario hidróxido solución 47.3 g/l

$Ba(OH)_2.8H_2O$
Molecular Weight: 315,48
CAS: 12230-71-6

Barium hydroxide solution 47.3 g/l > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611009409	250 ml	Plastic bottle	Ref Ph.Eur 1009401
611009401	1 l	Plastic bottle	Ref Ph.Eur 1009401

Barium nitrate

Bario nitrato • Baryum nitrate • Bario nitrato

$Ba(NO_3)_2$
Molecular Weight: 261,34
CAS: 10022-31-8
EEC-N: 233-020-5

Classification transport
ONU: 1446
Transport Hazard class: 5.1
Packing group II

Danger
H272-H301-H332-H319
P221-P264-P210a-P271-P304+P340-P305+P351+P338

Barium nitrate > RPE - For analysis - ACS

RPE

Description ..... White crystals
Identification ..... Positive
pH sol. 5% at 25° C ..... 5.0 ÷ 8.0
Chloride ..... ≤ 10 ppm
Fe ..... ≤ 5 ppm
Ca ..... ≤ 0.005 %
Assay ..... ≥ 99.0 %
Heavy metals (Pb) ..... ≤ 10 ppm

Code	Size	Packaging	Notes
425342	500 g	Plastic bottle	
425347	1 kg	Plastic bottle	
425341	25 kg	Plastic bucket	

Barium perchlorate trihydrate

Bario perclorato triidrato • Baryum perchlorate trihydraté • Bario perclorato trihidrato

$Ba(ClO_4)_2.3H_2O$
Molecular Weight: 390,29
CAS: 10294-39-0
EEC-N: 236-710-4

Classification transport
ONU: 1447
Transport Hazard class: 5.1
Packing group II

Danger
H271-H302-H332
P210-P221-P264-P283-P271-P304+P340

Barium perchlorate trihydrate > RPE - For analysis

RPE

Description ..... White crystals	Water-insoluble matter ..... ≤100 ppm	Cu ..... ≤25 ppm	Pb ..... ≤25 ppm
Identification ..... Positive	Methyl alcohol insolub ..... ≤100 ppm	Fe ..... ≤3 ppm	Sr ..... ≤0.6 %
Total nitrogen ..... ≤20 ppm	Heavy metals (Pb) ..... ≤5 ppm	K ..... ≤100 ppm	Zn ..... ≤20 ppm
Chlorate ..... ≤300 ppm	Substances not ppt. H2S ..... ≤0.1 %	Na ..... ≤100 ppm	Assay (complexometric) ..... ≥99.8 %
Chloride ..... ≤10 ppm	Ca ..... ≤100 ppm	Ni ..... ≤25 ppm	

Code	Size	Packaging	Notes
425411	50 g	Glass bottle	

Barium perchlorate 0.05 mol/l

Bario perclorato 0.05 mol/l • Baryum perchlorate 0.05 mol/l • Bario perclorato 0.05 mol/l

$Ba(ClO_4)_2$
Molecular Weight: 336,23
CAS: 13465-95-7

Classification transport
ONU: 2924
Transport Hazard class: 3
Packing group II

Danger
H225-H315-H319
P210-P241-P264-P303+P361+P353-
P305+P351+P338-P403+P235

Barium perchlorate 0.05 mol/l > RS - For analysis according to Ph. Eur. Chap. 4.2.2

RS

Code	Size	Packaging	Notes
613000700	1 l	Plastic bottle	Ref Ph.Eur 3000700

Barium perchlorate 0.025 mol/l

Bario perclorato 0.025 mol/l • Baryum perchlorate 0.025 mol/l • Bario perclorato 0.025 mol/l

Synonym:
Barium diperchlorate

$Ba(ClO_4)_2$
Molecular Weight: 336.23
CAS: 13465-95-7

Barium perchlorate 0.025 mol/l > RS - For analysis according to Ph. Eur. Chap. 4.2.2

RS

Code	Size	Packaging	Notes
613009601	500 ml	Plastic bottle	Ref Ph.Eur 3009600
613009600	1 l	Plastic bottle	Ref Ph.Eur 3009600

Barium peroxide

Bario perossido • Baryum péroxyde • Bario peróxido

BaO_2
Molecular Weight: 169,34
CAS: 1304-29-6
EEC-N: 215-128-4

Classification transport
ONU: 1449
Transport Hazard class: 5.1
Packing group II

Danger
H272-H302-H332
P221-P264-P210a-P271-P280a-P304+P340

Barium peroxide > RE - Pure

RE

Description ..... Hazel powder	Chloride ..... ≤200 ppm	Heavy metals (Pb) ..... ≤100 ppm	Fe ..... ≤200 ppm
Identification ..... Positive	HCl-insoluble matter ..... ≤2.5 %	Substances not ppt. H2S ..... ≤1 %	Assay (oxidimetric) ..... ≥85 %

Code	Size	Packaging	Notes
322401	1 kg	Plastic bottle	

Barium sulfate

Bario solfato • Baryum sulfate • Bario sulfato

Synonym:
Baryte

$BaSO_4$
Molecular Weight: 233,4
CAS: 7727-43-7
EEC-N: 231-784-4

Barium sulfate > RPE - For analysis

RPE

Description	White powder	Total nitrogen	≤30 ppm	Silicate	≤20 ppm	Na	≤500 ppm
Identification	Positive	Chloride	≤300 ppm	As	≤1 ppm	Ni	≤5 ppm
Organic substances	Conform	Phosphate	≤10 ppm	Cd	≤5 ppm	Pb	≤5 ppm
Loss on ignition	≤1.5 %	Heavy metals (Pb)	≤10 ppm	Cu	≤5 ppm	Zn	≤10 ppm
Acidity (H2SO4)	≤100 ppm	Soluble barium salts	≤50 ppm	Fe	≤20 ppm	Assay (complexometric)	≥97 %
Alkalinity(Ba idroxide)	≤40 ppm	Soluble salts	≤0.2 %	K	≤100 ppm		

Code	Size	Packaging	Notes
425497	1 kg	Plastic bottle	

Barium sulfate > RE - Pure

RE

Description	White powder	Chloride	≤0.1 %	Subst. reducing KMnO4	≤40 ppm(10m)
Identification	Positive	Phosphate	≤200 ppm	Fe	≤20 ppm
Loss on ignition	≤2 %	Nitrate	≤50 ppm	Zn	≤20 ppm

Code	Size	Packaging	Notes
322607	1 kg	Plastic bottle	

Baryte ▶ Barium sulfate

Basic violet 3 ▶ Crystal violet

Basic Violet 14 ▶ Fuchsin basic

Bathophenanthroline sulfonate sodium salt

Batofenantrolina solfonato sale sodico • Bathophénanthroline sulfonate sodique • Batofenantrolina sulfonato sal sódico

Synonym:
Bathophenanthrolinedisulfonic acid disodium salt hydrate
4,7-Diphenyl-1,10-phenanthroline-disulfonic acid disodium salt trihydrate

C24H14N2Na2O6S2·3H2O
Molecular Weight: 536,5
CAS: 52746-49-3
EEC-N: 258-152-0

Bathophenanthroline sulfonate sodium salt > RPE - For analysis

RPE

Description	Polvere nocciola	Identification	Positive	Residue on ignition	21 ÷ 27 %	Iron sensitivity	≤ 0.5 µg/ml

Code	Size	Packaging	Notes
425601	0.5 g	Glass bottle	
425602	5 g	Glass bottle	

Suitable for the determination of iron. Soluble in water

Benedict's reagent

Benedict reattivo • Réactif de Bénédict • Reactivo de Benedict

H412
P273-P501a

Benedict's reagent > RS - For microscopy

RS

Description	Clear blue liquid	Identification	Positive

Code	Size	Packaging	Notes
E425742	1 l	Glass bottle	

Suitable for the qualitative determination of glucose in urine

Benzaldehyde
Aldeide benzoica • Aldéhyde benzoïque • Aldehído benzoico

Synonym:
Bitter almond

C_6H_5CHO
Molecular Weight: 106,12
CAS: 100-52-7
EEC-N: 202-860-4

Classification transport
ONU: 1990
Transport Hazard class: 9
Packing group III

Warning
H302
P264-P270-P330-P301+P312a-P501a

Benzaldehyde > RPE - For analysis - Reag. Ph.Eur.
RPE

Description ..... Clear colourless liquid or yellowish
Identification ..... Positive
Density at 20° C ..... 1.041 ÷ 1.051
Refractive index at 20°C. 1.5438 ÷ 1.5488
Boiling point..... 177.6 ÷ 178.6 ° C
Acidity (benzoic acid) ..... ≤1 %
Total chlorine ..... ≤200 ppm
Ca ..... ≤5 ppm
Cd ..... ≤1 ppm
Co ..... ≤1 ppm
Cu ..... ≤1 ppm
Fe ..... ≤1 ppm
K ..... ≤20 ppm
Mg ..... ≤1 ppm
Mn ..... ≤1 ppm
Na ..... ≤20 ppm
Ni ..... ≤1 ppm
Pb ..... ≤1 ppm
Zn ..... ≤1 ppm
Assay (GLC) ..... ≥99 %

Code	Size	Packaging	Notes
415362	500 ml	Glass bottle	

Benzalkonium chloride
Benzalconio cloruro • Benzalkonium chlorure • Benzalconio cloruro

Synonym:
Alkylbenzyldimethylammonium chloride

$[C_6H_5CH_2N(CH_3)_2R]+Cl-$
Molecular Weight: 365
CAS: 63449-41-2
EEC-N: 264-151-6

Classification transport
ONU: 3259
Transport Hazard class: 8
Packing group II

Danger
H302-H312-H314-H400
P264-P273-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Benzalkonium chloride > ERBApharm - According to pharmacopoeia : NF
ERBApharm

Description ..... Polvere o polvere gelatinosa bianco-giallognola
Identification ..... Positive
Water not sol. matter ..... Conform NF
Ammine estranee ..... Conform NF
Rapporto dei comp. alchilici (HPLC) Conform NF
Water ..... ≤ 15.0 %
Residue on calcination ..... ≤ 2.0 %
Assay ..... 97.0 ÷ 103.0 % s.s.

Code	Size	Packaging	Notes
322737	1 kg	Plastic bottle	
322738	5 kg	Plastic jar	

Benzalkonium chloride > RE - Pure
RE

Description ..... Yellow liqui-solid
Identification ..... Positive
Aspetto soluzione 1% ..... Conform
Water (K.F.) ..... ≤ 10 %
Sulphated ash ..... ≤ 0.1 %
Assay (non-aqueos medium) ..... 98.5 ÷ 103.0 % (s.s.)

Code	Size	Packaging	Notes
322721	250 g	Plastic bottle	

Benzene
Benzene • Benzène • Benceno

C_6H_6
Molecular Weight: 78,11
CAS: 71-43-2
EEC-N: 200-753-7

Classification transport
ONU: 1114
Transport Hazard class: 3
Packing group II

Danger
H225-H315-H319-H340-H350-H372-H304-HA26
P210-P241-P264-P303+P361+P353-P305+P351+P338-P403+P235

Benzene > RPE - For analysis - ACS
RPE

Description ..... Clear liquid
Colour (APHA) ..... ≤10
Ready carbonizable substances ..... Conform
Water (K.F.) ..... ≤500 ppm
Residue on evaporation ..... ≤10 ppm
Tiophene ..... Conform
Total sulphur ..... ≤5 ppm
Assay (GLC) ..... ≥99.0 %

Code	Size	Packaging	Notes
426113	2.5 l	Glass bottle	

Benzene-d6

Benzene-d6 • Benzène-d6 • Benceno-d6

Synonym:
Hexadeuterobenzene

C_6D_6
Molecular Weight: 84,07
CAS: 1076-43-3
EEC-N: 214-061-8

Classification transport
ONU: 1114
Transport Hazard class: 3
Packing group II

Danger
H225-H301-H311-H330-H350-HA26
P210-P241-P264-P303+P361+P353-P304+P340-P403+P235

Benzene-d6 > RS - For NMR - min 99.5%

RS

Code	Size	Packaging	Notes
P5089	10 x 0.75 ml	Glass ampoule	
P5085	25 ml	Glass bottle	
P5086	100 ml	Glass bottle	

Benzene-d6 > RS - For NMR - min 99.96%

RS

Code	Size	Packaging	Notes
P5100	10 x 0.6 ml	Glass ampoule	

Benzenemethanol ▶ Benzyl alcohol

Benzenesulfonyl chloride

Benzenesolfonile cloruro • Benzène sulfonyle chlorure • Bencenosulfonilo cloruro

$C_6H_5SO_2Cl$
Molecular Weight: 176,62
CAS: 98-09-9
EEC-N: 202-636-6

Classification transport
ONU: 2225
Transport Hazard class: 8
Packing group III

Danger
H302-H314
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Benzenesulfonyl chloride > RPE - For analysis

RPE

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 20° C ..... ~ 1.377
Refractive index at 20°C ..... ~ 1.552
Melting point ..... 15 ÷ 17 ° C
Assay ..... ≥99 %

Code	Size	Packaging	Notes
426231	10 ml	Glass bottle	

For derivatization

Benzethonium chloride ▶ Hyamine 1622

Benzhydrol

Benzidrolo • Benzhydrol • Bencidrol

Synonym:
Diphenylmethanol

$C_6H_5CHOHC_6H_5$
Molecular Weight: 184,23
CAS: 91-01-0
EEC-N: 202-033-8

Benzhydrol > RPE - For analysis

RPE

Description ..... White crystals
Identification ..... Positive
Melting point ..... 68.0 ÷ 70.0 ° C
Residue on ignition ..... ≤0.1 %

Code	Size	Packaging	Notes
426403	50 g	Plastic bottle	

Benzoic acid
Acido benzoico • Acide benzoique • Acido benzóico

C_6H_5COOH
Molecular Weight: 122,12
CAS: 65-85-0
EEC-N: 200-618-2

Danger
H315-H318-H372
P264-P260-P280g-P305+P351+P338-P314-P332+P313

Benzoic acid > RS - For analysis according to Ph. Eur. Chap. 4.2.1 — RS

Code	Size	Packaging	Notes
612000200	100 g	Plastic bottle	Ref Ph.Eur 2000200

Benzoic acid > RS - Standard for volumetry — RS

Description .....White crystalline powder
Identification ..... Positive
Assay (acidimetric) .....≥99.8 %

Code	Size	Packaging	Notes
402621	10 g	Glass bottle	

Benzoic acid > RPE - For analysis - ACS — RPE

Description .....White crystalline powder
Identification (I.R.)..... Positive
Insol. in alcol metilico .....≤ 0.005 %
Subst. reducing KMnO4..... Conform
Heavy metals (Pb)..... ≤ 5 ppm
Chlorinated compounds.....≤ 0.005 %
Sulphur compounds .....≤ 0.002 %
Residue on calcination.....≤ 0.005 %
Assay (acidimetric) .....≥ 99.5 %

Code	Size	Packaging	Notes
402636	100 g	Plastic bottle	
402635	250 g	Plastic bottle	
402637	1 kg	Plastic bottle	

Benzoic acid > ERBApharm - According to pharmacopoeia : Ph.Eur.-USP-FU-Ph.Franc.-BP — ERBApharm

Description ..... White crystalline powder
Identification ..... Positive
Appearance of solution .....Conform Ph.Eur.
Carbonizable substances ...Conform Ph.Eur.
Oxidizing substances .....Conform Ph.Eur.
Freezing point ..... 121 ÷ 123 ° C
Water (K.F.) ..... ≤0.7 %
Sulphated ash ..... ≤0.05 %
Halogenated and halides.....≤300 ppm
Heavy metals (Pb).....≤10 ppm
Assay (acidimetric) .....99.5 ÷ 100.5 %s.s.
Origin (BSE/TSE)..... Synthesis
Residual solvents (Current ICH).....Conform

Code	Size	Packaging	Notes
302087	1 kg	Plastic bottle	
302089	5 kg	Plastic jar	
302082	25 kg	Plastic bucket	

Benzoic acid benzyl ester ▶ Benzyl benzoate

p-Benzoquinone
p-Benzochinone • p-Benzoquinone • p-benzoquinona

Synonym:
Quinone

$C_6H_4O_2$
Molecular Weight: 108,09
CAS: 106-51-4
EEC-N: 203-405-2

Classification transport
ONU: 2587
Transport Hazard class: 6.1
Packing group II

Danger
H301-H331-H315-H319-H335-H400
P264-P273-P271-P304+P340-P305+P351+P338-P301+P310a

p-Benzoquinone > RPE - For analysis — RPE

Description ..... Yellow crystals
Identification .....Positive
Melting point.....113.5 ÷ 118.5 ° C
Total chlorine .....≤40 ppm
Alcohol-insolub. matter.....≤200 ppm
Heavy metals (Pb).....≤10 ppm
Residue on ignition..... ≤0.1 %
Total sulphur .....≤20 ppm
Fe .....≤10 ppm
Assay (oxidimetric) ..... ≥99 %

Code	Size	Packaging	Notes
436853	50 g	Glass bottle	

For spectrophotometric microdetermination of amines

Benzyl alcohol

Alcole benzilico • Alcool benzylique • Alcohol bencílico

Synonym:
Benzenemethanol

$C_6H_5CH_2OH$
Molecular Weight: 108,14
CAS: 100-51-6
EEC-N: 202-859-9

Warning
H302-H332-H319
P264-P271-P304+P340-P305+P351+P338-P330-P337+P313

Benzyl alcohol > RPE - For analysis - Stabilized with 0,02% BHA

RPE

Description ..... Clear colourless liquid
Identification (I.R.)..... Conform
Water miscibility..... Conform
Refractive index at 20°C. 1.5376 ÷ 1.5416
Boiling point..... 204.9 ÷ 205.9 °C
Acidity (benzoic acid) ..... ≤200 ppm
Water (K.F.) ..... ≤0.1 %
Alcalinity (NaOH)..... ≤34 ppm
Benzaldheide(GLC) ..... ≤0.1 %
Total chlorine ..... ≤50 ppm
Carbonyl Compounds (CO) ..... ≤100 ppm
Heavy metals (Pb)..... ≤5 ppm
Peroxides (H2O2) ..... ≤10 ppm
Residue on ignition..... ≤20 ppm
Fe ..... ≤10 ppm
Assay (GLC) ..... ≥99.5 %

Code	Size	Packaging	Notes
414052	1 l	Glass bottle	

Store between 2-8 °C

Benzyl alcohol > RPE - For analysis

RPE

Description ..... Clear liquid
Colour (APHA) ..... ≤10
Identification ..... Positive
Density at 20° C ..... ~ 1.04
Refractive index at 20° C ..... ~ 1.54
Boiling point..... 204.5 ÷ 205.5 °C
Water (K.F.) ..... ≤0.1 %
Total chlorine ..... ≤100 ppm
Benzaldeide ..... ≤0.1 %
Assay (GLC) ..... ≥99.8 %

Code	Size	Packaging	Notes
414022	1 l	Glass bottle	
414024	2.5 l	Glass bottle	

Benzyl alcohol > ERBApharm - According to pharmacopoeia : BP-FU-NF-Ph.Eur.-Ph.Franc.

ERBApharm

Description ..... Clear colourless liquid
Identification ..... Positive
Appearance of solution ..... Conform Ph.Eur.
Acidity ..... Conform Ph.Eur.
Density at 20° C ..... 1.043 ÷ 1.049
Refractive index at 20°C..... 1.538 ÷ 1.541
Residue on evaporation ..... ≤500 ppm
Analogous subst. GLC..... Conform Ph.Eur.
Benzaldehyde (GLC) ..... ≤0.15 %
Peroxide value..... ≤5
Solubility..... Conform Ph. Eur.
Cyclohexylmethanol (GLC)..... ≤0.10 %
Peaks sum rel.ret. less than C6H5CH2OH ≤ 0.04 %
Peaks sum rel.ret. great than C6H5CH2OH≤ 0.3 %
Assay (acidimetric) ..... 98.0 ÷ 100.5 %

Code	Size	Packaging	Notes
308131	1 l	Glass bottle	
308132	2.5 l	Glass bottle	
308138	23 kg	Drum	

Benzylamine

Benzilammina • Benzylamine • Bencilamina

Synonym:
α-Aminotoluene

$C_6H_5CH_2NH_2$
Molecular Weight: 107,15
CAS: 100-46-9
EEC-N: 202-854-1

Classification transport
ONU: 2735
Transport Hazard class: 8
Packing group III

Danger
H226-H302-H312-H314
P210-P241-P264-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

Benzylamine > RPE - For analysis

RPE

Description ..... Yellow clear liquid
Identification ..... Positive
Density at 20° C ..... 0.979 ÷ 0.983
Refractive index at 20°C..... 1.5425 ÷ 1.5445
Boiling point..... 184.5 ÷ 185.5 °C
Assay (GLC) ..... ≥99 %

Code	Size	Packaging	Notes
426453	100 ml	Glass bottle	

Benzyl benzoate

Benzile benzoato • Benzyle benzoate • Bencilo benzoato

Synonym:
Benzoic acid benzyl ester

$C_6H_5COOCH_2C_6$
Molecular Weight: 212,25
CAS: 120-51-4
EEC-N: 204-402-9

Classification transport
ONU: 3082
Transport Hazard class: 9
Packing group III

Warning
H302-H411
P264-P273-P270-P330-P301+P312a-P391

Benzyl benzoate > RPE - For analysis

RPE

Description ..... Clear liquid
Identification ..... Positive
Density at 20°C ..... 1.118 ÷ 1.122
Refractive index at 20°C ..... 1.5651 ÷ 1.5711
Melting point ..... 18.6 ÷ 20.2 °C
Water (K.F.) ..... ≤ 0.05 %
Acidity (benzoic acid) ..... ≤ 0.12 %
Carbonyl Compounds (CO) ..... ≤ 0.04 %
Assay (GLC) ..... ≥ 99 %

Code	Size	Packaging	Notes
426761	250 ml	Glass bottle	
426763	1 l	Glass bottle	

Benzyl benzoate > ERBApharm - According to pharmacopoeia : Ph.Eur.-USP-FU-Ph.Franc.-BP

ERBApharm

Description ..... Clear colourless liquid
Identification ..... Positive
Acidity ..... Conform Ph.Eur.
Organic volatile impurities Conform USP-NF
Density at 20° C ..... 1.118 ÷ 1.122
Density at 25° C ..... 1.116 ÷ 1.120
Refractive index at 20°C ..... 1.568 ÷ 1.570
Freezing point ..... ≥ 17.0 ° C
Aldehyde ..... ≤ 0.05 %
Sulphated ash ..... ≤ 0.1 %
Assay (alkalimetric) ..... 99.0 ÷ 100.5 %

Code	Size	Packaging	Notes
323101	1 l	Glass bottle	
323102	2.5 l	Glass bottle	

S-Benzylisothiourea hydrochloride

Benzilisotiourea cloridrato • Benzylisothiourée chlorhydrate • Bencilisotiourea clorhidrato

Synonym:
2-Benzyl-2-thiopseudourea hydrochloride

$NH_2C(SCH_2C_6H_5)$:NH.HCl
Molecular Weight: 202,71
CAS: 538-28-3
EEC-N: 208-688-6

Classification transport
ONU: 2811
Transport Hazard class: 6.1
Packing group III

Danger
H301
P264-P270-P301+P310a-P330-P321-P405

S-Benzylisothiourea hydrochloride > RPE - For analysis

RPE

Description ..... White shining crystals
Identification ..... Positive
Suitab.for sulphon.prec. ..... Conform
Loss on drying ..... ≤1 %
Residue on ignition ..... ≤500 ppm
Assay (argentimetric) ..... ≥ 98 %

Code	Size	Packaging	Notes
426962	25 g	Glass bottle	

Beryllium standard solution

Berillio standard soluzione • Béryllium standard solution • Berilio, solución patrón

Classification transport
ONU: 1760
Transport Hazard class: 8
Packing group II

Beryllium standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505332	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505335	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid
505333	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Beryllium standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
503461	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
503463	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Beryllium standard solution > RS - Standard solution for AAS

RS

Code	Size	Packaging	Notes
506941	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
507497	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Bis(ethylenediamine)copper(II) hydroxide solution 1 mol/l

Cuprietilendiammina idrossido 1 mol/l • Cupriéthylènediamine hydroxyde 1 mol/l • Cobre (II) dietilendiaminico hidroxido 1 mol/l

Bis(ethylenediamine)copper(II) hydroxide solution 1 mol/l > RS - For analysis according to Ph. Eur. Chap. 4.2.2

RS

Code	Size	Packaging	Notes
613008700	1 l	Glass bottle	Ref Ph.Eur 3008700

n,o-Bis(trimethylsilyl)acetamide

n,o-Bis (trimetilsilil)acetammide • n,o-Bis(triméthylsilyl)acétamide • n,o-Bis (trimetilsilil) acetamida

Synonym: *BSA*

$CH_3C[:NSi(CH_3)_3]OSi(CH_3)_3$
Molecular Weight: 203,43
CAS: 10416-59-8
EEC-N: 233-892-7

Classification transport
ONU: 1993
Transport Hazard class: 3
Packing group III

Warning
H226-H302
P210-P241-P264-P243-P303+P361+P353-P403+P235

n,o-Bis(trimethylsilyl)acetamide > RPE - For analysis

RPE

Description ..... Clear yellow liquid Identification ..... Positive Density at 20° C ..... ~ 0.835

Code	Size	Packaging	Notes
489934	25 ml	Glass bottle	

For derivatization

n,o-Bis(trimethylsilyl)-trifluoroacetamide

n,o-Bis (trimetilsilil)trifluoroacetammide • n,o-Bis(triméthylsilyl)trifluoroacétamide • n,o-Bis (trimetilsilil) trifluoroacetamida

Synonym: *BSTFA*

$C_8H_{18}F_3NOSi_2$
Molecular Weight: 257,39
CAS: 25561-30-2
EEC-N: 247-103-9

Classification transport
ONU: 2920
Transport Hazard class: 8
Packing group II

Danger
H226-H314
P210-P241-P264-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

n,o-Bis(trimethylsilyl)-trifluoroacetamide > RPE - For analysis

RPE

Description ..... Yellow clear liquid Identification ..... Positive Density at 20° C ..... ≤ 0.985 Assay (GLC) ..... ≥ 98 %

Code	Size	Packaging	Notes
489561	25 ml	Glass bottle	

For derivatization

Bismarck brown R

Bruno Bismarck R • Brun Bismarck R • Pardo de Bismarck R

$C_{21}H_{24}N_8.2HCl$
Molecular Weight: 461,39
CAS: 8005-78-5
EEC-N: 232-341-8

Warning
H302-H312-H332
P264-P271-P280-P261-P304+P340-P330

Bismarck brown R > RS - For microscopy - C.I. 21010

RS

Description ..... Brown powder Identification ..... Positive E 1% / 1 cm a 460 nm..... ≥250 Loss on drying (110°C)..... ≤10 %

Code	Size	Packaging	Notes
431252	25 g	Glass bottle	

Dye for bacteriology, histology

Bismuth standard solution

Bismuto standard soluzione • Bismuth standard solution • Bismuto, solución patrón

Classification transport
ONU: 3264
Transport Hazard class: 8
Packing group II

Danger
H314-H319-H335
P264-P271-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Bismuth standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2

RS

Code	Size	Packaging	Notes
615005300	100 ml	Plastic bottle	A 100 ppm solution : to dilute according to Ref Ph.Eur 5005300

Bismuth standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505337	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505338	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid
505339	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Bismuth standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
503471	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503475	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
503473	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503477	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Bismuth standard solution > RS - Standard solution for AAS

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
507528	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
E497455	100 ml	Glass bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
507482	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
E497451	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Bismuth standard solution > RS - NORMEX - Concentrated solution for AAS

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
428071		Plastic ampoule	conc. 1.000 ppm Matrix : Nitric acid - Volume : 50 ml

Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package

Bismuth(III) carbonate basic

Bismuto carbonato basico • Bismuth (III) carbonate basique • Bismuth (III) carbonate basique

Synonym: *Bismuth subcarbonate*

$(BiO)_2CO_3$
Molecular Weight: 509,97
CAS: 5892-10-4
EEC-N: 227-567-9

Bismuth(III) carbonate basic > RPE - For analysis

RPE

Description ..... Yellowish powder
Identification ..... Positive
Loss on drying ..... ≤ 1.0 %
Ag ..... ≤ 25 ppm
As ..... ≤ 5 ppm
Cu ..... ≤ 50 ppm
Pb ..... ≤ 20 ppm
Assay (complexometric) .... 97.6 ÷ 100.7 %
Alkaly-alkaline earth ..... ≤ 1.0 %
Chloride ..... ≤ 0.05 %
Nitrate ..... ≤ 0.4 %

Code	Size	Packaging	Notes
428103	50 g	Glass bottle	
428105	250 g	Plastic bottle	

Bismuth(III) nitrate basic

Bismuto nitrato basico • Bismuth (III) nitrate basique • Bismuth (III) nitrate basique

Synonym: *Bismuth subnitrate*

$4BiNO_3(OH)_2$ BiO(OH)
Molecular Weight: 1461,99
CAS: 1304-85-4
EEC-N: 215-136-8

Classification transport
ONU: 1477
Transport Hazard class: 5.1
Packing group II

Danger
H272-H315-H319-H335
P221-P264-P210a-P271-P304+P340-P305+P351+P338

Bismuth(III) nitrate basic > RPE - For analysis - Reag. Ph.Eur.

RPE

Description ..... White powder
Identification ..... Positive
Assay (complexometric) ..... 79.0 ÷ 82.0 %

Code	Size	Packaging	Notes
428294	100 g	Glass bottle	

Bismuth(III) nitrate basic > RPE - For analysis

RPE

Description ..... White powder
Identification ..... Positive
Ammonium ..... ≤50 ppm
Carbonate ..... ≤20 ppm
Chloride ..... ≤20 ppm
HNO3-insoluble matter ..... ≤50 ppm
Substances not ppt. H2S ..... ≤0.2 %
Sulphate ..... ≤50 ppm
Ag ..... ≤20 ppm
As ..... ≤2 ppm
Cu ..... ≤10 ppm
Fe ..... ≤10 ppm
Ni ..... ≤10 ppm
Pb ..... ≤30 ppm
Zn ..... ≤20 ppm
Assay (complexometric) ..... 79.0 ÷ 82.0 %

Code	Size	Packaging	Notes
428284	100 g	Glass bottle	
428286	500 g	Glass bottle	

For Dragendorff reagent

Bismuth(III) nitrate pentahydrate

Bismuto (III) nitrato pentaidrato • Bismuth (III) nitrate pentahydraté • Bismuth (III) nitrate pentahidratado

$Bi(NO_3)_3.5H_2O$
Molecular Weight: 485,07
CAS: 10035-06-0
EEC-N: 233-791-8

Classification transport
ONU: 1477
Transport Hazard class: 5.1
Packing group II

Danger
H272-H315-H319-H335
P210-P221-P264-P271-P304+P340-P305+P351+P338

Bismuth(III) nitrate pentahydrate > RPE - For analysis

RPE

Description ..... White crystals
Identification ..... Positive
Ammonium ..... ≤50 ppm
Chloride ..... ≤5 ppm
HNO3-insoluble matter ..... ≤30 ppm
Substances not ppt. H2S ..... ≤500 ppm
Sulphate ..... ≤40 ppm
Ag ..... ≤20 ppm
As ..... ≤1 ppm
Cu ..... ≤10 ppm
Fe ..... ≤10 ppm
Ni ..... ≤10 ppm
Pb ..... ≤20 ppm
Zn ..... ≤10 ppm
Assay (complexometric) ..... ≥98.5 %

Code	Size	Packaging	Notes
428234	100 g	Glass bottle	
428236	500 g	Glass bottle	

Bismuth(III) nitrate pentahydrate > RE - Pure

RE

Description ..... White crystals
Identification ..... Positive
Chloride ..... ≤350 ppm
Alkaly-alkaline earth ..... ≤0.5 %
Sulphate ..... ≤600 ppm
As ..... ≤10 ppm
Assay (complexometric) ..... ≥98 %

Code	Size	Packaging	Notes
324185	250 g	Glass bottle	

Biuret 97%

Biureto 97% • Biuret 97% • Biuret 97%

Synonym:
Allophanic acid amide
Carbamoyl urea

$NH_2CONHCONH_2$
Molecular Weight: 103,08
CAS: 108-19-0
EEC-N: 203-559-0

Warning
H315-H319-H335
P264-P271-P304+P340-P305+P351+P338-P312a-P332+P313

Biuret 97% > RS - For microscopy

RS

Description .....White crystalline powder Identification ..... Positive Water (K.F.) .....≤ 2 %

Code	Size	Packaging	Notes
428432	25 g	Glass bottle	

Biuret reagent

Biureto reattivo • Réactif au biuret • Biuret reactivo

Synonym:
Allophanic acid amide
Carbamoyl urea

$NH_2CONHCONH_2$
Molecular Weight: 103,08
CAS: 108-19-0
EEC-N: 203-559-0

Warning
H315-H319-H335
P264-P271-P304+P340-P305+P351+P338-P312a-P332+P313

Biuret reagent > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611011601	1 l	Plastic bottle	Biuret reagent Ref Ph.Eur 1011601

Boric acid

Acido borico • Acide borique • Acido bórico

H_3BO_3
Molecular Weight: 61,83
CAS: 10043-35-3
EEC-N: 233-139-2

Danger
H360FD-HA26
P280-P201-P202-P308+P313

Boric acid > RPE - For analysis - ISO - ACS - Reag.Ph.Eur. - Reag.USP

RPE

Description ..... White crystalline powder
Identification ..... Positive
Chloride.....≤10 ppm
Phosphate .....≤10 ppm
Sulphate .....≤100 ppm
Heavy metals (Pb).....≤10 ppm
Ca .....≤50 ppm
Fe .....≤10 ppm
Insoluble in methanol.....≤50 ppm
Nonvolatile with methanol .....≤500 ppm
Appearance of solution .....Conform
Alcohol solubility .....Conform
Organic substances.....Conform
pH solution 3.3% .....3.8 ÷ 4.8
Loss on drying ..... ≤0.5 %
Assay (acidimetric) .....99.5 ÷ 100.5 % s.s.

Code	Size	Packaging	Notes
402763	100 g	Plastic bottle	
402766	500 g	Plastic bottle	
402767	1 kg	Plastic bottle	
402765	10 kg	Plastic jar	
402762	25 kg	Plastic bucket	
402764	50 kg	Fibre drum	

Boric acid > ERBApharm - According to pharmacopoeia : NF

ERBApharm

Description ..... White crystalline powder
Identification ..... Positive
Appearance of solution .....Conform Ph.Eur.
Alcohol solubility .....Conform Ph.Eur.
pH (sol. 3.3.%) .....3.8 ÷ 4.8
Organic substances.....Conform Ph.Eur.
Loss on drying ..... ≤ 0.5 %
Sulphate .....≤ 450 ppm
Fe .....≤ 1 ppm
Heavy metals (Pb).....≤ 15 ppm
Assay (acidimetric) .....99.5 ÷ 100.5 % s.s.
Origin (BSE/TSE)..... Synthesis
Residual solvents (CPMP/ICH/283/95)..... Conform

Code	Size	Packaging	Notes
302185	25 kg	Plastic bucket	

Boric acid > ERBApharm - According to pharmacopoeia : Ph.Eur.-FU-Ph.Franc.-DAB-USP

ERBApharm

Description ..... White crystalline powder
Identification ..... Positive
Appearance of solution .....Conform Ph.Eur.
Alcohol solubility .....Conform Ph.Eur.
Organic substances.....Conform Ph.Eur.
pH (sol. 3.3.%).....3.8 ÷ 4.8
Loss (silica gel) ..... ≤0.5 %
Sulphate.....≤450 ppm
Fe .....≤10 ppm
Heavy metals (Pb).....≤15 ppm
Assay (acidimetric) .....99.5 ÷ 100.5 % s.s.
Origin (BSE/TSE)..... Synthesis
Residual solvents (Current ICH).....Conform

Code	Size	Packaging	Notes
302177	1 kg	Plastic bottle	
302179	5 kg	Plastic jar	
302178	25 kg	Plastic bucket	

Boric Acid 20g/l

Acido borico 20g/l • Acide borique 20g/l • Acido bórico 20g/l

H_3BO_3 HEU210
Molecular Weight: 61,83
CAS: 10043-35-3

Boric Acid 20g/l > RS - For analysis

RS

Concentration .....19 - 21 g/l

Code	Size	Packaging	Notes
PS0703/22	5 l	Plastic tank	

Boric acid 20 g/l with indicator

Acido borico 20 g/l con indicatore • Acide borique 20 g/l avec indicateur • Acido bórico 20 g/l con indicador

H_3BO_3 HEU210
Molecular Weight: 61,83
CAS: 10043-35-3

Boric acid 20 g/l with indicator > RS - For nitrogen detection according to Kjeldahl

RS

Refractive index at 20°C..... 1.331 - 1.335
Density d20/4 ..... 1.003 - 1.007

Code	Size	Packaging	Notes
PS0562/22	5 l	Plastic tank	

Composition : Boric acid 20g, Red methyl solution 0.5 g/l : 10ml, Methylene blue solution 1.5 g/l : 2ml, water : QSP 1l according to ISO 5663-1984

Boric acid 4%

Acido borico 4% • Acide borique 4% • Acido bórico 4%

H_3BO_3 HEU210
Molecular Weight: 61,83
CAS: 10043-35-3

Boric acid 4% > RS - For agroalimentary analysis

RS

Description ..... Clear colourless liquid
Assay ..... 3.975 ÷ 4.025 %

Code	Size	Packaging	Notes
502002	5 l	Plastic tank	

According to NF V04-387: H3BO3: 40 g/L water QSP 1 L

Boric acid 4 % with indicator

Acido borico 4% con indicatore • Acide borique 4% avec indicateur • Acido bórico 4% con indicador

H_3BO_3 HEU210
Molecular Weight: 61,83
CAS: 10043-35-3

Boric acid 4 % with indicator > RS - For agroalimentary analysis

RS

Description ..... Clear mauve liquid
Assay ..... 3.975 ÷ 4.025 %

Code	Size	Packaging	Notes
502601	5 l	Plastic tank	

According to NF V04-211: H3BO3: 40 g/L water QSP 1L. Mixed indicator (Methyl red+Bromocresol green): 10 ml

Boric acid 3%
Acido borico 3% • Acide borique 3% • Acido bórico 3%

H_3BO_3 HEU210
Molecular Weight: 61,83
CAS: 10043-35-3

Boric acid 3% > RPE - For analysis
RPE

Boric acid content ..... 2.9 - 3.1 %

Code	Size	Packaging	Notes
PS0563/21	2.5 l	Glass bottle	

Boric acid 1% with indicator
Acido borico 1% con indicatore • Acide borique 1% avec indicateur • Acido bórico 1% con indicador

H_3BO_3 HEU210
Molecular Weight: 61,83
CAS: 10043-35-3

Boric acid 1% with indicator > RS - For agroalimentary analysis
RS

Description ..... Clear grey/green liquid Assay ..... 0.993 ÷ 1.007 %

Code	Size	Packaging	Notes
502611	5 l	Plastic tank	
502612	10 l	Plastic tank	

According to NF V04-211: H3BO3: 10 g/L water QSP 1L. Mixed indicator (Methyl red+Bromocresol green): 10 ml

Boric buffer solution
Tampone borico soluzione • Solution tampon borique • Tampón bórico solución

Warning
H315-H319
P264-P280-P305+P351+P338-P332+P313-P337+P313-P302+P352a

Boric buffer solution > RS - For analysis
RS

Temperature of measurement ..... 19 - 21 °C pH..... 9.9 - 10.9 unite pH

Code	Size	Packaging	Notes
PS0226/29	5 l	Plastic tank	
PS0226/41	10 l	Plastic tank	

Composition : boric acid 33g/l, potassium chloride 39.7g/l, sodium hydroxide 18.75g/l

2-Bornanone ▶ Camphor natural

Boron standard solution
Boro standard soluzione • Bore standard solution • Boro, solución patrón

HEU210

Boron standard solution > RS - Standard solution for ICP-MS
RS

Code	Size	Packaging	Notes
505322	100 ml	Plastic bottle	conc. 10 ppm Matrix : Water
505325	100 ml	Plastic bottle	conc. 100 ppm Matrix : Water
505323	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Boron standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
503441	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503445	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Water
503443	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503447	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Water

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Boron standard solution > RS - Standard solution for AAS

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
E497465	100 ml	Glass bottle	conc. 1.000 ppm Matrix : Water
E497461	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Boron standard solution > RS - NORMEX - Concentrated solution for AAS

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
429641		Plastic ampoule	conc. 1.000 ppm Matrix : Water - Volume : 50 ml

Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package

Brilliant Blue R ▶ Coomassie brilliant blue R 250

Brillant cresyl blue

Blu cresile brillante • Bleu de crésyl brillant • Azul de cresol brillante

$C_{17}H_{21}N_4O$. 0.5 $ZnCl_4$
Molecular Weight: 400.97
CAS: 81029-05-2
EEC-N: 279-675-0

Brillant cresyl blue > RS - For microscopy

RS

Description ..... Polvere verde-bluastra scura Identification ..... Positive E (1%/1cm) a 622 nm (in ETOH 50%) ..... 1500 ÷ 1700

Code	Size	Packaging	Notes
428811	10 g	Glass bottle	
428812	25 g	Glass bottle	

Dye for cytology and hematology

Brilliant green

Verde brillante • Vert brillant • Verde brillante

Synonym:
Basic Green 1
Diamond green

$C_{27}H_{34}N_2O_4S$
Molecular Weight: 482,64
CAS: 633-03-4
EEC-N: 211-190-1

Warning
H302
P264-P270-P330-P301+P312a-P501a

Brilliant green > RPE - For analysis - C.I. 42040

RPE

Description ..... Green crystline powder Identification ..... Positive Loss on drying ..... ≤ 10 % Colour change..... yellow green

Code	Size	Packaging	Notes
491152	25 g	Glass bottle	

Dye for microscopy (bacteriology-Botanical-histology). Indicator acid - base (pH 0.1 ÷ 2.6)

Brix Standards

Brix Standards • Etalons en degré Brix • Brix patrones

Brix Standards > RS - For calibration

RS

Code	Size	Packaging	Notes
540201	15 ml	Bottle	Sucrose Stabilised 0%, Nominal Refractive Index @ 20°C : 1.332986
540202	15 ml	Bottle	Sucrose Stabilised 5%, Nominal Refractive Index @ 20°C : 1.340264
540203	15 ml	Bottle	Sucrose Stabilised 7%, Nominal Refractive Index @ 20°C : 1.343253
540204	15 ml	Bottle	Sucrose Stabilised 10%, Nominal Refractive Index @ 20°C : 1.347824
540205	15 ml	Bottle	Sucrose Stabilised 11.5%, Nominal Refractive Index @ 20°C : 1.350149
540206	15 ml	Bottle	Sucrose Stabilised 12%, Nominal Refractive Index @ 20°C : 1.350930
540207	15 ml	Bottle	Sucrose Stabilised 15%, Nominal Refractive Index @ 20°C : 1.355679
540208	15 ml	Bottle	Sucrose Stabilised 20%, Nominal Refractive Index @ 20°C : 1.363842
540209	15 ml	Bottle	Sucrose Stabilised 25%, Nominal Refractive Index @ 20°C : 1.372328
540210	15 ml	Bottle	Sucrose Stabilised 30%, Nominal Refractive Index @ 20°C : 1.381149
540220	15 ml	Bottle	Sucrose Stabilised 35%, Nominal Refractive Index @ 20°C : 1.390322
540221	15 ml	Bottle	Sucrose Stabilised 40%, Nominal Refractive Index @ 20°C : 1.39986
540222	15 ml	Bottle	Sucrose Stabilised 45%, Nominal Refractive Index @ 20°C : 1.409777
540223	15 ml	Bottle	Sucrose Stabilised 50%, Nominal Refractive Index @ 20°C : 1.420087
540224	15 ml	Bottle	Sucrose Stabilised 60%, Nominal Refractive Index @ 20°C : 1.441928
540225	15 ml	Bottle	Sucrose Stabilised 67.5%, Nominal Refractive Index @ 20°C : 1.459290

Store between 2 - 8 °C

Bromate standard solution

Bromati standard soluzione • Bromate standard solution • Bromato, solución patrón

Danger
H350-HA26
P280-P201-P202-P308+P313-P405-P501a

Bromate standard solution > RS - Standard solution for ion chromatography

RS

Code	Size	Packaging	Notes
503171	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503173	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Bromide - bromate 0.0167 mol/l

Bromuri - bromati 0.0167 mol/l • Bromure - bromate 0.0167 mol/l • Bromuro - bromato 0.0167 mol/l

Danger
H350-HA26
P280-P201-P202-P308+P313-P405-P501a

Bromide - bromate 0.0167 mol/l > RS - For analysis according to Ph. Eur. Chap. 4.2.2 — RS

Code	Size	Packaging	Notes
613001000	1 l	Plastic bottle	Ref Ph.Eur 3001000

Bromide standard solution

Bromuri standard soluzione • Bromure standard solution • Bromuro, solución patrón

Bromide standard solution > RS - Standard solution for ion chromatography — RS

Code	Size	Packaging	Notes
503211	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503213	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Bromine solution

Bromo soluzione • Brome solution • Bromo, solución patrón

Br_2
Molecular Weight: 159.82
CAS: 7726-95-6

Bromine solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1 — RS

Code	Size	Packaging	Notes
611012401	100 ml	Glass bottle	Ref Ph.Eur 1012401

Bromine solution > RS - For analysis according to USP — RS

Code	Size	Packaging	Notes
617000141	100 ml	Glass bottle	Brome TS

Bromine water

Acqua di bromo • Eau de brome • Agua de bromo

Br_2
Molecular Weight: 159,82
CAS: 7726-95-6

Classification transport
ONU: 3289
Transport Hazard class: 6.1
Packing group I

Danger
H315-H318
P264-P280-P305+P351+P338-P332+P313-P302+P352a-P321

Bromine water > RS - For analysis according to Ph. Eur. Chap. 4.1.1 — RS

Code	Size	Packaging	Notes
611012409	50 ml	Glass bottle	Ref Ph.Eur 1012402
611012402	100 ml	Glass bottle	Ref Ph.Eur 1012402

Storage: protected from light

Bromocresol Green
Verde bromocresolo • Vert de bromocrésol • Verde de bromocresol

$C_{21}H_{14}Br_4O_5S$
Molecular Weight: 698,05
CAS: 76-60-8
EEC-N: 200-972-8

Bromocresol Green > RPE - For analysis - ACS
RPE

Description ..... Beige powder
Identification ..... Positive
Appearance of solution ..... Conform
Colour change ..... yellow-blue
pH range ..... 3.8 ÷ 5.4

Code	Size	Packaging	Notes
491207	1 g	Glass bottle	
491208	25 g	Glass bottle	
491201	20 kg	Fibre drum	

Clark indicator series. Complexometric indicator. Dye for microscopy (botanical-histology)

Bromocresol green 0.04% hydroalcoholic solution
Verde bromocresolo soluzione 0,04% idroalcolica • Vert de bromocrésol solution hydroalcoolique à 0,04% • Verde de bromocresol 0.04% solución hidroalcohólica

$C_{21}H_{14}Br_4O_5S$
Molecular Weight: 698,05
CAS: 76-60-8

Warning
H319
P264-P280-P305+P351+P338-P337+P313

Bromocresol Green 0.04% hydroalcoholic solution > RPE - For analysis
RPE

Description ..... Clear green liquid
Identification ..... Positive
Sensitivity(pH 4.0-5.4) ..... Conform
Colour change ..... yellow blue

Code	Size	Packaging	Notes
E491255	250 ml	Glass bottle	

Clark indicator series. Acid-base indicator (pH 3.8 ÷ 5.4)

Bromocresol green solution
Verde bromocresolo soluzione • Vert de bromocrésol solution • Verde de bromocresol solución

$C_{21}H_{14}Br_4O_5S$
Molecular Weight: 698.05
CAS: 76-60-8

Bromocresol green solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1
RS

Code	Size	Packaging	Notes
611012601	100 ml	Plastic bottle	Ref Ph.Eur 1012601 / Colour change : pH 3.6 (yellow) to pH 5.2 (blue)

Bromocresol green solution > RS - For analysis according to USP
RS

Code	Size	Packaging	Notes
617000101	100 ml	Plastic bottle	Bromocresol green TS

Bromocresol green - Methyl red solution
Verde bromocresolo - Rosso metile soluzione • Vert de bromocrésol - Rouge de méthyle solution • Verde de bromocresol - Rojo de metilo solución

Classification transport
ONU: 1170
Transport Hazard class: 3
Packing group II

Danger
H225-H319
P210-P241-P264-P303+P361+P353-P305+P351+P338-P403+P235

Bromocresol green - Methyl red solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1
RS

Code	Size	Packaging	Notes
611012602	100 ml	Plastic bottle	Ref Ph.Eur 1012602

Bromocresol purple

Porpora bromocresolo • Pourpre de bromocrésol • Púrpura de bromocresol

Synonym:
5,5'-Dibromo-o-cresolsulfonphthalein

$C_{21}H_{16}Br_2O_5S$
Molecular Weight: 540,24
CAS: 115-40-2
EEC-N: 204-087-8

Warning
H315-H319-H335
P264-P271-P304+P340-P305+P351+P338-P312a-P332+P313

Bromocresol purple > RPE - For analysis

RPE

Description ..... Pink powder Identification ..... Positive Colour change..... Purple - yellow pH range ..... 5.2 ÷ 6.8

Code	Size	Packaging	Notes
470038	5 g	Glass bottle	
470039	25 g	Glass bottle	

Clark indicator series. Acid-base indicator (pH 5.2 ÷ 6.8) Dye for microscopy (histology)

Bromocresol purple solution 0.4% in ethanol

Porpora bromocresolo soluzione 0.4% in etanolo • Pourpre de bromocrésol solution 0.4% dans l'éthanol • Púrpura de bromocresol solución 0.4% en alcohol etilico

Synonym:
5,5'-Dibromo-o-cresolsulfonphthalein

$C_{21}H_{16}Br_2O_5S$
Molecular Weight: 540,24
CAS: 115-40-2

Warning
H319
P264-P280-P305+P351+P338-P337+P313

Bromocresol purple solution 0.4% in ethanol > RPE - For analysis

RPE

Description ..... Red clear liquid Identification ..... Positive pH range ..... 5.2 - 6.8

Code	Size	Packaging	Notes
E470045	250 ml	Glass bottle	

Clark indicator series. Acid-base indicator (pH 5.2 ÷ 6.8) Dye for microscopy (histology)

Bromocresol purple solution

Porpora bromocresolo soluzione • Pourpre de bromocrésol solution • Púrpura de bromocresol solución

Classification transport
ONU: 1993
Transport Hazard class: 3
Packing group III

Warning
H226-H319
P210-P241-P264-P303+P361+P353-P305+P351+P338-P403+P235

Bromocresol purple solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611012701	100 ml	Plastic bottle	Ref Ph.Eur 1012701

Colour change : pH 5.2 (yellow) to pH 6.8 (bluish-violet)

alpha-Bromonaphthalene

alfa-Bromonaftalene • alpha-Bromonaphtalène • alpha-Bromonaftaleno

$C_{10}H_7Br$
Molecular Weight: 207,07
CAS: 90-11-9
EEC-N: 201-965-2

Warning
H302-H319
P264-P280-P305+P351+P338-P330-P337+P313-P301+P312a

alpha-Bromonaphthalene > RPE - For analysis

RPE

Description ..... Yellow clear liquid Density at 20° C ..... 1.479 ÷ 1.485 Melting point..... 2.0 ÷ 4.0 ° C
Identification ..... Positive Refractive index at 20°C..... 1.6562 ÷ 1.6602 Assay (GLC) .....≥99 %

Code	Size	Packaging	Notes
430652	500 ml	Glass bottle	

Bromophenol blue
Blu bromofenolo • Bleu de bromophénol • Azul de bromofenol

Synonym:
3',3'',5',5''-Tetrabromophenolsulfonephthalein

$C_{19}H_{10}Br_4O_5S$
Molecular Weight: 669,96
CAS: 115-39-9
EEC-N: 204-086-2

Bromophenol blue > RPE - For analysis - ACS
RPE

Description ..... Pink powder
Appearance of solution ..... Conform
pH range ..... 3.0 - 4.6
Identification ..... Positive
Colour change..... yellow blue

Code	Size	Packaging	Notes
428658	5 g	Glass bottle	
428659	25 g	Glass bottle	
428653	50 g	Glass bottle	
428655	500 g	Plastic bottle	

Clark indicator series. Dye for microscopy (histology)

Bromophenol blue solution 0.4% in ethanol
Blu bromofenolo soluzione 0.4% in alcole etilico • Bleu de bromophénol solution 0.4% dans l'éthanol • Azul de bromofenol solución 0.4% en alcohol etilico

$C_{19}H_{10}Br_4O_5S$
Molecular Weight: 669,96
CAS: 115-39-9

Warning
H319
P264-P280-P305+P351+P338-P337+P313

Bromophenol blue solution 0.4% in ethanol > RPE - For analysis
RPE

Description .....Red liquid
Identification .....Positive
Colour change.....yellow blue
pH range .....3.0 - 4.6

Code	Size	Packaging	Notes
E428665	250 ml	Glass bottle	

Clark indicator series. Acid-base indicator (pH 3.0 to 4.6) indicator absorbance

Bromophenol blue solution 0.02%
Blu bromofenolo soluzione 0.02% • Bleu de bromophénol solution 0.02% • Azul de bromofenol solución 0.02%

$C_{19}H_{10}Br_4O_5S$
Molecular Weight: 669,96
CAS: 115-39-9

Bromophenol blue solution 0.02% > RPE - For analysis
RPE

Description .....Clear purple liquid
Identification ..... Positive

Code	Size	Packaging	Notes
428691	100 ml	Glass bottle	

Dye for microscopy

Bromophenol blue solution
Blu bromofenolo soluzione • Bleu de bromophénol solution • Azul de bromofenol solución

$C_{19}H_{10}Br_4O_5S$
Molecular Weight: 669,96
CAS: 115-39-9

Classification transport
ONU: 2733
Transport Hazard class: 3
Packing group II

Danger
H225-H319
P210-P241-P264-P303+P361+P353-P305+P351+P338-P403+P235

Bromophenol blue solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1
RS

Code	Size	Packaging	Notes
611012801	100 ml	Plastic bottle	Ref Ph.Eur 1012801/Colour change : pH 2.8 (yellow) à pH 4.4 (bleu-violet)
611012802	100 ml	Plastic bottle	Bromophenol blue solution R1 Ref Ph.Eur 1012802
611012803	100 ml	Plastic bottle	Bromophenol blue solution R2 Ref Ph.Eur 1012803

Bromophenol blue indicator
Blu bromofenolo indicatore • Indicateur bleu de bromophénol • Indicador azul de bromofenol

Bromophenol blue indicator > RS - For analysis
RS

Temperature of measurement ..... 15 - 25 °C pH..... 2.1 - 2.3 unite pH

Code	Size	Packaging	Notes
PS0269/15	1 l	Plastic bottle	

Bromophenol blue TAC indicator
Blu bromofenolo indicatore TAC • Indicateur TAC au bleu de bromophénol • TAC indicador azul de bromofenol

Bromophenol blue TAC indicator > RS - For analysis
RS

Temperature of measurement ..... 15 - 25 °C pH..... 2 - 2.4 unite pH Colour ..... coca-cola Hazen

Code	Size	Packaging	Notes
PS0189/15	1 l	Plastic bottle	
PS0189/16	1 l	Glass bottle	

Bromothymol blue
Blu bromotimolo • Bleu de bromothymol • Azul de bromotimol

Synonym:
3',3"-Dibromothymolsulfonphthalein

$C_{27}H_{28}Br_2O_5S$
Molecular Weight: 624,39
CAS: 76-59-5
EEC-N: 200-971-2

Warning
H302-H312-H332
P264-P271-P280-P261-P304+P340-P330

Bromothymol blue > RPE - For analysis - ACS
RPE

Description ..... Brown powder Appearance of solution ..... Conform pH range ..... 6.0 - 7.6
Identification ..... Positive Colour change..... yellow-blue

Code	Size	Packaging	Notes
428708	5 g	Glass bottle	
428702	25 g	Glass bottle	
428703	50 g	Glass bottle	

Clark indicator series

Bromothymol blue 0.4% in ethanol
Blu bromotimolo soluzione 0.4% in alcole etilico • Bleu de bromothymol solution 0.4% dans l'éthanol • Azul de bromotimol solución 0.4% en alcohol etilico

$C_{27}H_{28}Br_2O_5S$
Molecular Weight: 624,39
CAS: 76-59-5

Warning
H319
P264-P280-P305+P351+P338-P337+P313

Bromothymol blue 0.4% in ethanol > RPE - For analysis
RPE

Description ..... Dark green liquid Identification ..... Positive Colour change..... yellow blue pH (Hydralcoholic sol.) ..... Conform 6.0 7.6

Code	Size	Packaging	Notes
E428715	250 ml	Glass bottle	

Clark indicator series

Bromothymol blue 0.02%
Blu bromotimolo 0.02% • Bleu de bromothymol solution 0.02% • Azul de bromotimol 0.02%

Synonym:
3',3"-Dibromothymolsulfonphthalein

$C_{27}H_{28}Br_2O_5S$
Molecular Weight: 624,39
CAS: 76-59-5

Bromothymol blue 0.02% > RPE - For analysis
RPE

Description .....Dark green liquid Identification ..... Positive pH at 20° C ..... 6.7 ÷ 6.9

Code	Size	Packaging	Notes
428731	100 ml	Glass bottle	

Dye for microscopy

Bromothymol blue solution

Blu bromotimolo soluzione • Bleu de bromothymol solution • Azul de bromotimol solución

Synonym:
3',3"-Dibromothymolsulfonphthalein

$C_{27}H_{28}Br_2O_5S$
Molecular Weight: 624,39
CAS: 76-59-5

Classification transport
ONU: 1170
Transport Hazard class: 3
Packing group II

Danger
H225-H319
P210-P241-P264-P303+P361+P353-P305+P351+P338-P403+P235

Bromothymol blue solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1 — RS

Code	Size	Packaging	Notes
611012901	100 ml	Plastic bottle	Bromothymol blue solution R1 Ref Ph.Eur 1012901/ Colour change : pH 5.8 (yellow) to pH 7.4 (blue)
611012903	100 ml	Plastic bottle	Bromothymol blue solution R3 Ref Ph.Eur 1012903

BSA ▶ n,o-Bis(trimethylsilyl)acetamide

BSTFA ▶ n,o-Bis(trimethylsilyl)-trifluoroacetamide

Buffer acetate pH 4.5

Tampone acetato pH 4.5 • Tampon acétate pH 4.5 • Tampón acetato pH 4,5

Buffer acetate pH 4.5 > RS - For analysis — RS

Temperature of measurement ..... 19 - 21 °C pH.....4.3 - 4.7 unite pH

Code	Size	Packaging	Notes
PS0784/95	5 l	Kubidos	

Composition : sodium acetate anhydrous 164g/l, acetic acid 168g/l, deionized water 763g/l

Buffer pH 1

Tampone pH 1 • Tampon pH 1 • Tampón pH 1

Classification transport
ONU: 3264
Transport Hazard class: 8
Packing group II

Danger
H314
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Buffer pH 1 > RPE - For analysis — RPE

pH.....0.98 - 1.02 unité pH Temperature of measurement ..... 19 - 21 °C

Code	Size	Packaging	Notes
486211	500 ml	Plastic bottle	

Composition: Glycocolle/ Sodium Chloride/Hydrochloric acid. Standardized against NIST reference materials

Buffer pH 1 > RPE - NORMEX - For analysis — RPE

Code	Size	Packaging	Notes
486221		Plastic vial	To dilute to 500 ml

Composition: Glycocolle/ Sodium Chloride/Hydrochloric acid. Volumetric concentrated solution to be diluted accordingly with the inst ructions for use printed on the package

Buffer pH 1.68

Tampone pH 1.68 • Tampon pH 1.68 • Tampón pH 1.68

Buffer pH 1.68 > RS - For analysis according to Ph. Eur. Chap. 2.2.3 — RS

Code	Size	Packaging	Notes
612203168	500 ml	Plastic bottle	pH 1.68 at 25°C

Composition : Potassium tetraoxalate 0.05 M

Buffer pH 1.68 > RPE - For analysis

RPE

Clear,colourless solution ..... Conform pH ..... 1.66 - 1.70 unité pH Temperature of measurement ..... 19 - 21 °C

Code	Size	Packaging	Notes
486751	500 ml	Plastic bottle	

Composition: Potassium oxalate tetra-acid. Standardized against NIST reference materials

Buffer pH 2

Tampone pH 2 • Tampon pH 2 • Tampón pH 2

Buffer pH 2 > RS - For analysis according to Ph. Eur. Chap. 4.1.3

RS

Code	Size	Packaging	Notes
614000200	1 l	Plastic bottle	Ref Ph.Eur 4000200

Buffer pH 2 > RPE - For analysis

RPE

pH ..... 1.98 - 2.02 unité pH Temperature of measurement ..... 19 - 21 °C

Code	Size	Packaging	Notes
486231	500 ml	Plastic bottle	

Composition: Citric acid/Hydrochloric acid/Sodium hydroxide. Standardized against NIST reference materials

Buffer pH 2 > RPE - NORMEX - For analysis

RPE

Description ..... Clear colourless liquid Identification ..... Positive pH at 20° C ..... 1.95 ÷ 2.05

Code	Size	Packaging	Notes
486241		Plastic vial	To dilute to 500 ml

Composition: Citric acid/Hydrochloric acid/Sodium hydroxide. Volumetric concentrated solution to be diluted accordingly with the ins tructions for use printed on the package

Buffer pH 3

Tampone pH 3 • Tampon pH 3 • Tampón pH 3

HEU210

Buffer pH 3 > RPE - For analysis

RPE

pH ..... 2.98 - 3.02 unité pH Temperature of measurement ..... 19 - 21 °C

Code	Size	Packaging	Notes
486251	500 ml	Plastic bottle	
486252	1l	Plastic bottle	

Composition: Citric acid/Hydrochloric acid/Sodium hydroxide. Standardized against NIST reference materials

Buffer pH 3 > RPE - NORMEX - For analysis

RPE

Description ..... Clear colourless liquid Identification ..... Positive pH at 20° C ..... 2.95 ÷ 3.05

Code	Size	Packaging	Notes
486261		Plastic vial	To dilute to 500 ml

Composition: Citric acid/Hydrochloric acid/Sodium hydroxide. Volumetric concentrated solution to be diluted accordingly with the ins tructions for use printed on the package

Buffer pH 3.5

Tampone pH 3.5 • Tampon pH 3.5 • Tampón pH 3.5

Classification transport
ONU: 1789
Transport Hazard class: 8
Packing group II

Warning
H315-H319-H335
P264-P271-P280-P304+P340-P305+P351+P338-P312a

Buffer pH 3.5 > RS - For analysis according to Ph. Eur. Chap. 4.1.3

RS

Code	Size	Packaging	Notes
614000601	250 ml	Plastic bottle	Ref Ph.Eur 4000600
614000600	1 l	Plastic bottle	Ref Ph.Eur 4000600

Buffer pH 3.56
Tampone pH 3.56 • Tampon pH 3.56 • Tampón pH 3.56

Buffer pH 3.56 > RPE - For analysis
RPE

pH ..... 3.54 - 3.58 unité pH Temperature of measurement ..... 19 - 21 °C

Code	Size	Packaging	Notes
486741	500 ml	Plastic bottle	

Composition: Potassium tartrate acide. Standardized against NIST reference materials

Buffer pH 3.7
Tampone pH 3.7 • Tampon pH 3.7 • Tampón pH 3.7

Buffer pH 3.7 > RS - For analysis according to Ph. Eur. Chap. 4.1.3
RS

Code	Size	Packaging	Notes
614000900	1 l	Plastic bottle	Ref Ph.Eur 4000900

Buffer pH 4
Tampone pH 4 • Tampon pH 4 • Tampón pH 4

Buffer pH 4 > RS - For analysis according to Ph. Eur. Chap. 2.2.3
RS

Code	Size	Packaging	Notes
612203401	500 ml	Plastic bottle	pH 4.01 at 25°C

Composition : Potassium hydrogen phthalate 0.05 M

Buffer pH 4 > RPE - For analysis
RPE

pH ..... 3.98 - 4.02 unité pH Temperature of measurement ..... 19 - 21 °C

Code	Size	Packaging	Notes
486271	500 ml	Plastic bottle	
486273	1 l	Plastic bottle	
486274	5 l	Kubidos	
486276	10 l	Kubidos	

Composition: Citric acid/Hydrochloric acid/Sodium hydroxide. Standardized against NIST reference materials

Buffer pH 4 > RPE - For analysis - Coloured solution
RPE

pH ..... 3.98 - 4.02 unité pH Temperature of measurement ..... 19 - 21 °C

Code	Size	Packaging	Notes
486761	500 ml	Plastic bottle	Color : Red
486762	1 l	Plastic bottle	Color : Red

Composition: Potassium phtalate acid. Standardized against NIST reference materials

Buffer pH 4 > RPE - NORMEX - For analysis
RPE

Description ..... Clear colourless liquid Identification ..... Positive pH at 20° C ..... 3.95 ÷ 4.05

Code	Size	Packaging	Notes
486281		Plastic vial	To dilute to 500 ml

Composition: Citric acid/Hydrochloric acid/Sodium hydroxide. Volumetric concentrated solution to be diluted accordingly with the ins tructions for use printed on the package

Buffer pH 4 > RPE - NORMEX - For analysis - Coloured solution
RPE

Description ..... Red clear liquid Identification ..... Positive pH at 20° C ..... 3.95 ÷ 4.05

Code	Size	Packaging	Notes
486291		Plastic vial	Color : red - To dilute to 500 mL

Composition: Potassium phtalate acid. Traceable to NIST. Volumetric concentrated solution to be diluted accordingly with the instruc tions for use printed on the package

Buffer pH 4.62
Tampone pH 4.62 • Tampon pH 4.62 • Tampón pH 4.62

HEU210

Buffer pH 4.62 > RPE - For analysis
RPE

pH ..... 4.60 - 4.64 unité pH Temperature of measurement ..... 19 - 21 °C

Code	Size	Packaging	Notes
486841	500 ml	Plastic bottle	

Composition: Sodium acetate / Acetic acid. Standardized against NIST reference materials

Buffer pH 5
Tampone pH 5 • Tampon pH 5 • Tampón pH 5

Warning
H315-H319
P264-P280-P305+P351+P338-P332+P313-P337+P313-P302+P352a

Buffer pH 5 > RPE - For analysis
RPE

pH ..... 4.98 - 5.02 unité pH Temperature of measurement ..... 19 - 21 °C

Code	Size	Packaging	Notes
486311	500 ml	Plastic bottle	

Composition: Citric acid/Sodium hydroxide. Standardized against NIST reference materials

Buffer pH 5 > RPE - NORMEX - For analysis
RPE

Description ..... Clear colourless liquid Identification ..... Positive pH at 20° C ..... 4.95 ÷ 5.05

Code	Size	Packaging	Notes
486301		Plastic vial	To dilute to 500 ml

Composition: Citric acid/Sodium hydroxide. Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package

Buffer pH 5.2
Tampone pH 5.2 • Tampon pH 5.2 • Tampón pH 5.2

Buffer pH 5.2 > RS - For analysis according to Ph. Eur. Chap. 4.1.3
RS

Code	Size	Packaging	Notes
614001700	1 l	Plastic bottle	Ref Ph.Eur 4001700

Buffer pH 6
Tampone pH 6 • Tampon pH 6 • Tampón pH 6

Classification transport
ONU: 1824
Transport Hazard class: 8
Packing group III

Warning
H315-H319
P264-P280-P305+P351+P338-P332+P313-P337+P313-P302+P352a

Buffer pH 6 > RPE - For analysis
RPE

pH ..... 5.98 - 6.02 unité pH Temperature of measurement ..... 19 - 21 °C

Code	Size	Packaging	Notes
486331	500 ml	Plastic bottle	

Composition: Citric acid/Sodium hydroxide. Standardized against NIST reference materials

Buffer pH 6 > RPE - NORMEX - For analysis
RPE

Description ..... Clear colourless liquid Identification ..... Positive pH at 20° C ..... 5.95 ÷ 6.05

Code	Size	Packaging	Notes
486321		Plastic vial	To dilute to 500 ml

Composition: Citric acid/Sodium hydroxide. Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package

Buffer pH 6.8
Tampone pH 6.8 • Tampon pH 6.8 • Tampón pH 6.8

Buffer pH 6.8 > RPE - NORMEX - For analysis
RPE

Description ..... Clear colourless liquid Identification ..... Positive pH at 20° C ..... 6.75 ÷ 6.85

Code	Size	Packaging	Notes
486401		Plastic vial	To dilute to 500 ml

Composition: Potassium phosphate monobasic/ Sodium hydroxide. Volumetric concentrated solution to be diluted accordingly with the in structions for use printed on the package

Buffer pH 6.88
Tampone pH 6.88 • Tampon pH 6.88 • Tampón pH 6.88

Buffer pH 6.88 > RS - For analysis according to Ph. Eur. Chap. 2.2.3
RS

Code	Size	Packaging	Notes
612203687	500 ml	Plastic bottle	pH 6.87 at 25°C

Composition : Potassium dihydrogen phosphate 0.025 M + disodium hydrogen phosphate 0.025 M

Buffer pH 6.88 > RPE - For analysis
RPE

pH ..... 6.86 - 6.90 unité pH Temperature of measurement ..... 19 - 21 °C

Code	Size	Packaging	Notes
486871	500 ml	Plastic bottle	

Composition: Potassium phosphate monobasic / sodium phosphate dibasic. Standardized against NIST reference materials

Buffer pH 7
Tampone pH 7 • Tampon pH 7 • Tampón pH 7

Buffer pH 7 > RS - For analysis according to Ph. Eur. Chap. 4.1.3
RS

Code	Size	Packaging	Notes
614003500	1 l	Plastic bottle	Ref Ph.Eur 4003500

Buffer pH 7 > RPE - For analysis
RPE

pH ..... 6.98 - 7.02 unité pH Temperature of measurement ..... 19 - 21 °C

Code	Size	Packaging	Notes
486451	500 ml	Plastic bottle	
486453	1 l	Plastic bottle	
486454	5 l	Kubidos	
486456	10 l	Kubidos	
486455	25 l	Plastic tank	

Composition: Potassium phosphate monobasic / sodium phosphate dibasic. Standardized against NIST reference materials

Buffer pH 7 > RPE - For analysis - Coloured solution
RPE

Appearance ..... Green clear solution pH ..... 6.98 - 7.02 unité pH Temperature of measurement ..... 19 - 21 °C

Code	Size	Packaging	Notes
486791	500 ml	Plastic bottle	Color : Green
486792	1 l	Plastic bottle	Color : Green

Composition: Potassium phosphate monobasic/Sodium phosphate dibasic / Color: Green Standardized against NIST reference materials

Buffer pH 7 > RPE - NORMEX - For analysis
RPE

Description ..... Clear colourless liquid Identification ..... Positive pH at 20° C ..... 6.95 ÷ 7.05

Code	Size	Packaging	Notes
486421		Plastic vial	To dilute to 500 ml

Composition: Potassium phosphate monobasic / sodium phosphate dibasic. Volumetric concentrated solution to be diluted accordingly wi th the instructions for use printed on the package

Buffer pH 7 > RPE - NORMEX - For analysis - Coloured solution

RPE

Description ..... Yellow clear liquid Identification ..... Positive pH at 20° C ..... 6.95 ÷ 7.05

Code	Size	Packaging	Notes
486431		Plastic vial	Color : yellow - To dilute to 500 mL

Composition: Potassium phosphate monobasic / sodium phosphate dibasic. Volumetric concentrated solution to be diluted accordingly wi th the instructions for use printed on the package

Buffer pH 7.2

Tampone pH 7.2 • Tampon pH 7.2 • Tampón pH 7.2

Buffer pH 7.2 > RPE - NORMEX - For analysis

RPE

Description ..... Clear colourless liquid Identification ..... Positive pH at 20° C ..... 7.15 ÷ 7.25

Code	Size	Packaging	Notes
486441		Plastic vial	To dilute to 500 ml

Composition: Potassium phosphate monobasic / sodium hydroxide. Volumetric concentrated solution to be diluted accordingly with the i nstructions for use printed on the package

Buffer pH 7.20 Weise

Tampone pH 7.20 secondo Weise • Tampon pH 7.20 selon Weise • Tampón pH 7.20 según Weise

Buffer pH 7.20 Weise > RS - For analysis

RS

Description ..... Clear colourless liquid Identification ..... Conform pH at 20° C ..... 7.2 ± 0.05

Code	Size	Packaging	Notes
486411	500 ml	Plastic bottle	

Buffer pH 7.4

Tampone pH 7.4 • Tampon pH 7.4 • Tampón pH 7.4

Buffer pH 7.4 > RS - For analysis according to Ph. Eur. Chap. 2.2.3

RS

Code	Size	Packaging	Notes
612203741	500 ml	Plastic bottle	pH 7.41 at 25°C

Composition : Potassium dihydrogen phosphate 0.0087 M + disodium hydrogen phosphate 0.0303 M

Buffer pH 7.4 > RS - For analysis according to Ph. Eur. Chap. 4.1.3

RS

Code	Size	Packaging	Notes
614004600	1 l	Plastic bottle	Ref Ph.Eur 4004600

Buffer pH 7.4 > RPE - NORMEX - For analysis

RPE

Description ..... Clear colourless liquid Identification ..... Positive pH at 20° C ..... 7.35 ÷ 7.45

Code	Size	Packaging	Notes
486461		Plastic vial	To dilute to 500 ml

Composition: Potassium phosphate monobasic / sodium hydroxide. Volumetric concentrated solution to be diluted accordingly with the i nstructions for use printed on the package

Buffer pH 8

Tampone pH 8 • Tampon pH 8 • Tampón pH 8

HEU210

Buffer pH 8 > RPE - For analysis

RPE

pH ..... 7.98 - 8.02 unité pH Temperature of measurement ..... 19 - 21 °C

Code	Size	Packaging	Notes
486541	500 ml	Plastic bottle	
486542	1 l	Plastic bottle	

Composition: Boric acid/Sodium hydroxide/Hydrochloric acid. Standardized against NIST reference materials

Buffer pH 8 > RPE - NORMEX - For analysis

RPE

Description ..... Clear colourless liquid Identification ..... Positive pH at 20° C ..... 7.95 ÷ 8.05

Code	Size	Packaging	Notes
486531		Plastic vial	To dilute to 500 ml

Composition: Boric acid/Sodium hydroxide/Hydrochloric acid. Volumetric concentrated solution to be diluted accordingly with the inst ructions for use printed on the package

Buffer pH 9

Tampone pH 9 • Tampon pH 9 • Tampón pH 9

HEU210

Buffer pH 9 > RS - For analysis according to Ph. Eur. Chap. 4.1.3

RS

Code	Size	Packaging	Notes
614007000	1 l	Plastic bottle	Ref Ph.Eur 4000700

Buffer pH 9 > RPE - For analysis

RPE

pH..... 8.98 - 9.02 unité pH Temperature of measurement ..... 19 - 21 °C

Code	Size	Packaging	Notes
486591	500 ml	Plastic bottle	
486593	1 l	Plastic bottle	
486594	5 l	Kubidos	

Composition: Boric acid/Sodium hydroxide/Potassium chloride. Standardized against NIST reference materials

Buffer pH 9 > RPE - For analysis - Coloured solution

RPE

pH..... 8.98 - 9.02 unité pH Temperature of measurement ..... 19 - 21 °C

Code	Size	Packaging	Notes
PS0427/19	500 ml	Plastic bottle	Color : Blue
PS0427/15	1 l	Plastic bottle	Color : Blue

Composition : Boric acid/Sodium hydroxide/Potassium chloride/Methylene blue. Traceable to NIST

Buffer pH 9 > RPE - NORMEX - For analysis

RPE

Description ..... Clear colourless liquid Identification ..... Positive pH at 20° C ..... 8.95 ÷ 9.05

Code	Size	Packaging	Notes
486571		Plastic vial	To dilute to 500 ml

Composition: Boric acid/Sodium hydroxide/Potassium chloride. Volumetric concentrated solution to be diluted accordingly with the ins tructions for use printed on the package

Buffer pH 9.22

Tampone pH 9.22 • Tampon pH 9.22 • Tampón pH 9.22

HEU210

Buffer pH 9.22 > RS - For analysis according to Ph. Eur. Chap. 2.2.3

RS

Code	Size	Packaging	Notes
612203918	500 ml	Plastic bottle	pH 9.18 at 25°C

Composition : Disodium tetraborate 0.01 M

Buffer pH 9.22 > RPE - For analysis

RPE

pH..... 9.20 - 9.24 unité pH Temperature of measurement ..... 19 - 21 °C

Code	Size	Packaging	Notes
486881	500 ml	Plastic bottle	

Composition: Sodium tetraborate. Standardized against NIST reference materials

Buffer pH 10

Tampone pH 10 • Tampon pH 10 • Tampón pH 10

Danger
H314-H318
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Buffer pH 10 > RS - For analysis according to AFNOR T90-003 normative

RS

pH ..... 9 - 11 unite pH Temperature of measurement ..... 19 - 21 °C

Code	Size	Packaging	Notes
PS0200/15	1 l	Plastic bottle	
PS0200/95	5 l	Kubidos	

Determination of the total concentration of Ca and Mg. Composition: ammonium chloride 64.5 g / l, ammonia 28% 440g / l EDTA-Mg 4.8 g / l deionized water 461.5 g / l

Buffer pH 10 > RPE - For analysis

RPE

Clear,colourless solution ..... Conform pH ..... 9.95 - 10.05 unité pH Temperature of measurement ..... 19 - 21 °C

Code	Size	Packaging	Notes
486611	500 ml	Plastic bottle	
486613	1 l	Plastic bottle	
486614	5 l	Kubidos	
486615	10 l	Kubidos	

Composition: Boric acid/Sodium hydroxide/Potassium chloride. Standardized against NIST reference materials

Buffer pH 10 > RPE - NORMEX - For analysis

RPE

Description ..... Clear colourless liquid Identification ..... Positive pH at 20° C ..... 9.95 ÷ 10.05

Code	Size	Packaging	Notes
486601		Plastic vial	To dilute to 500 ml

Composition: Boric acid/Sodium hydroxide/Potassium chloride. Volumetric concentrated solution to be diluted accordingly with the ins tructions for use printed on the package

Buffer pH 10.06

Tampone pH 10.06 • Tampon pH 10.06 • Tampón pH 10.06

HEU210

Buffer pH 10.06 > RPE - For analysis - Coloured solution

RPE

Appearance ..... Blue clear solution pH ..... 10.01 - 10.11 unité pH Temperature of measurement ..... 19 - 21 °C
Description ..... Blue clear liquid Identification ..... Positive pH at 20° C ..... 10.01 ÷ 10.11

Code	Size	Packaging	Notes
486811	500 ml	Plastic bottle	Color : Blue
486812	1 l	Plastic bottle	Color : Blue

Composition: Boric acid/Sodium hydroxide/Potassium chloride. Standardized against NIST reference materials

Buffer pH 10.06 > RPE - NORMEX - For analysis - Coloured solution

RPE

Description ..... Blue clear liquid Identification ..... Positive pH at 20° C ..... 10.01 ÷ 10.11

Code	Size	Packaging	Notes
486581		Plastic vial	Color : blue - To dilute to 500 mL

Composition: Sodium carbonate/Sodium bicarbonate. Volumetric concentrated solution to be diluted accordingly with the instructions f or use printed on the package

Buffer pH 11
Tampone pH 11 • Tampon pH 11 • Tampón pH 11

Buffer pH 11 > RPE - For analysis
RPE

Appearance ..... Clear colourless solution pH ..... 10.98 - 11.02 unité pH Temperature of measurement ..... 19 - 21 °C

Code	Size	Packaging	Notes
486771	500 ml	Plastic bottle	
486772	1 l	Plastic bottle	

Composition: Sodium phosphate dibasic / Sodium hydroxide. Standardized against NIST reference materials

Buffer pH 11 > RPE - NORMEX - For analysis
RPE

Description ..... Clear colourless liquid Identification ..... Positive pH at 20° C ..... 10.95 ÷ 11.05

Code	Size	Packaging	Notes
486631		Plastic vial	To dilute to 500 ml

Composition: Boric acid/Sodium hydroxide/Potassium chloride. Volumetric concentrated solution to be diluted accordingly with the ins tructions for use printed on the package

Buffer pH 12
Tampone pH 12 • Tampon pH 12 • Tampón pH 12

Buffer pH 12 > RPE - For analysis
RPE

pH ..... 11.95 - 12.05 unité pH Temperature of measurement ..... 19 - 21 °C

Code	Size	Packaging	Notes
486691	500 ml	Plastic bottle	

Composition: Sodium phosphate/Sodium hydroxide. Standardized against NIST reference materials

Buffer pH 12 > RPE - NORMEX - For analysis
RPE

Description ..... Clear colourless liquid Identification ..... Positive pH at 20° C ..... 11.95 ÷ 12.05

Code	Size	Packaging	Notes
486621		Plastic vial	To dilute to 500 ml

Composition: Sodium phosphate/Sodium hydroxide. Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package

Buffer pH 13
Tampone pH 13 • Tampon pH 13 • Tampón pH 13

Buffer pH 13 > RPE - For analysis
RPE

Clear,colourless solution ..... Conform pH ..... 12.95 - 13.05 unité pH Temperature of measurement ..... 19 - 21 °C

Code	Size	Packaging	Notes
486701	500 ml	Plastic bottle	

Composition: Potassium Chloride/Sodium hydroxide. Standardized against NIST reference materials

Buffer pH 13 > RPE - NORMEX - For analysis
RPE

Description ..... Clear colourless liquid Identification ..... Positive pH at 20° C ..... 12.95 ÷ 13.05

Code	Size	Packaging	Notes
486641		Plastic vial	To dilute to 500 ml

Composition: Potassium Chloride/Sodium hydroxide. Volumetric concentrated solution to be diluted accordingly with the instructions f or use printed on the package

1,3-Butanediol

1,3-Butandiolo • 1,3-Butanediol • 1,3-Butanodiol

Synonym:
1,3-Butylene glycol

$CH_2OHCH_2CHOHCH_3$
Molecular Weight: 90,12
CAS: 107-88-0
EEC-N: 203-529-7

1,3-Butanediol > RE - Pure

RE

Description ..... Yellow clear liquid
Identification ..... Positive
Density at 20° C ..... 1.000 ÷ 1.010
Boiling point..... 206.0 ÷ 207.0 °C
Assay (GLC) .....≥98 %

Code	Size	Packaging	Notes
431302	1 l	Glass bottle	

1-Butanesulfonic acid sodium salt

Acido 1-butansolfonico sale sodico • Acide 1-butanesulfonique sel sodique • Acido 1-butanosulfónico sal sódica

Synonym:
Sodium 1-butanesulfonate
1-Butanesulfonic acid sodium salt

$CH_3(CH_2)_3SO_3Na$
Molecular Weight: 160,17
CAS: 2386-54-1

1-Butanesulfonic acid sodium salt > RS - For ion pair chromatography

RS

Description ..... White powder
Water (K.F.) ..... ≤ 1.0 %
Assay ..... ≥ 99.0 %

Absorbance (5.5% in water)
At 210 nm ..... ≤ 1.0 AU
At 220 nm ..... ≤ 0.1 AU
At 250 nm ..... ≤ 0.04 AU
At 280 nm ..... ≤ 0.04 AU

Code	Size	Packaging	Notes
405631	25 g	Glass bottle	
405632	100 g	Plastic bottle	

Butanol-1

1-Butanolo • Butanol-1 • Butanol-1

Synonym:
1-Butanol
Butyl alcohol

$CH_3(CH_2)_2CH_2OH$
Molecular Weight: 74,12
CAS: 71-36-3
EEC-N: 200-751-6

Classification transport
ONU: 1120
Transport Hazard class: 3
Packing group III

Danger
H226-H302-H315-H318-H335-H336
P210-P241-P264-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

Butanol-1 > RS - For HPLC - Isocratic Grade

RS

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 20° C .....0.809 ÷ 0.811
Refractive index at 20°C.1.3972 ÷ 1.4012
Boiling point..... 117.0 ÷ 118.0 °C
Residue on evaporation .....≤5 ppm
Water (K.F.) ..... ≤0.1 %
Acidity or alkalinity.....≤0.0005 meq/g
Assay (GLC) ..... ≥99.8 %
U.V. Transmittance
at 210 nm ..... ≥10 %
at 235 nm ..... ≥80 %
at 310 nm ..... ≥98 %

Code	Size	Packaging	Notes
412511000	1 l	Glass bottle	
412512000	2.5 l	Glass bottle	

Filtered through 0.2 µm membrane

Butanol-1 > RS - Anhydrous - For analysis

RS

Refractive index at 20°C..... 1.397 - 1.401
Water content (K.F.) .....≤ 400 mg/Kg
Non volatile residue .....≤ 10 mg/Kg
Colour .....≤ 10 Hazen
Free acid (as CH3COOH).....≤ 20 mg/Kg
Assay (GC) .....≥ 99.5 %

Code	Size	Packaging	Notes
P0171010	200 ml	Bottle with septum	
P0171016	1 l	Glass bottle	

Butanol-1 > RPE - For analysis - ISO

RPE

Description ..... Clear liquid	Acidity ..... ≤ 0.0008 meq/g	Ready carbonizable substances ..... Conform	Fe ..... ≤ 0.1 ppm
Colour (APHA) ..... ≤10	Alcalinity (NaOH) ..... ≤ 5 ppm	Al ..... ≤ 0.5 ppm	Mg ..... ≤ 0.1 ppm
Identification (I.R.) ..... Conform	Carbonyl Compounds (CO) ..... ≤ 100 ppm	Ba ..... ≤ 0.1 ppm	Mn ..... ≤ 0.02 ppm
Water solubility ..... Conform	Acetone ..... ≤ 0.01 %	Ca ..... ≤ 0.5 ppm	Ni ..... ≤ 0.02 ppm
Density at 20° C ..... 0.808 ÷ 0.810	Isobutanolo ..... ≤ 0.15 %	Cd ..... ≤ 0.05 ppm	Pb ..... ≤ 0.1 ppm
Boiling point ..... 116 ÷ 119 ° C	2-Butanolo ..... ≤ 0.05 %	Co ..... ≤ 0.02 ppm	Zn ..... ≤ 0.1 ppm
Water (K.F.) ..... ≤ 0.1 %	di-Butiletere ..... ≤ 0.1 %	Cr ..... ≤ 0.02 ppm	Assay (GLC) ..... ≥ 99.5 %
Residue on evaporation ..... ≤ 10 ppm	Aldeide butirrica ..... ≤ 0.02 %	Cu ..... ≤ 0.02 ppm	

Code	Size	Packaging	Notes
414131	1 l	Glass bottle	
414133	2.5 l	Glass bottle	
414132	22 kg	Metal drum	

Butanol-1 > RE - Pure

RE

Description ..... Clear colourless liquid	Density at 20° C ..... 0.808 ÷ 0.812	Water (K.F.) ..... ≤0.1 %	Acidity ..... ≤ 0.0008 meq/g
Colour ..... ≤ 10 APHA	Refractive index at 20°C ..... 1.397 - 1.401	Acidity (butirric acid) ..... ≤ 50 ppm	Assay (GLC) ..... ≥99 %
Identification ..... Positive	Boiling point ..... 116.8 ÷ 118.3 °C	Residue on evaporation ..... ≤ 50 ppm	

Code	Size	Packaging	Notes
308251	1 l	Glass bottle	
528300	5 l	Plastic tank	
308257	22 kg	Metal drum	
528301	25 l	Metal drum	
308259	160 kg	Metal drum	

Butanol-2

2-Butanolo • Butanol-2 • Butan-2-olo

Synonym:
2-Butanol
sec-Butyl alcohol

$CH_3CHOHCH_2CH_3$
Molecular Weight: 74,12
CAS: 78-92-2
EEC-N: 201-158-5

Classification transport
ONU: 1120
Transport Hazard class: 3
Packing group III

Warning
H226-H319-H335-H336
P210-P241-P264-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

Butanol-2 > RPE - For analysis - Reag. Ph.Eur.

RPE

Description ..... Clear liquid	Density at 20° C ..... 0.801 ÷ 0.811	Residue on evaporation ..... ≤20 ppm	Assay (GLC) ..... ≥99.0 %
Colour (APHA) ..... ≤10	Refractive index at 20°C. 1.3944 ÷ 1.3984	Acidity (butirric acid) ..... ≤20 ppm	
Identification ..... Positive	Boiling point ..... 99 - 100 °C	Alcalinity (NaOH) ..... ≤10 ppm	
Water solubility ..... Conform	Water (K.F.) ..... ≤0.2 %	Indole base ..... ≤0.1 ppm	

Code	Size	Packaging	Notes
414264	1 l	Glass bottle	
414266	15 kg	Metal drum	
414261	160 kg	Metal drum	

tert-Butanol

Alcole ter-butilico • tert-Butanol • Alcohol ter-butílico

Synonym:
2-Methyl-2-propanol
tert-Butyl alcohol

$(CH_3)_3COH$
Molecular Weight: 74,12
CAS: 75-65-0
EEC-N: 200-889-7

Classification transport
ONU: 1120
Transport Hazard class: 3
Packing group II

Danger
H225-H332-H319-H335
P210-P241-P264-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

tert-Butanol > RS - Anhydrous - For analysis

RS

Refractive index at 20°C ..... 1.386 - 1.39	Water content (K.F.) ..... ≤ 200 mg/Kg	Assay (GC) ..... ≥ 99.7 %
Colour ..... ≤ 10 Hazen	Non volatile residue ..... ≤ 10 mg/Kg	2- Propanol ..... ≤ 0.30 %

Code	Size	Packaging	Notes
P0191016	1 l	Glass bottle	

tert-Butanol > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description ..... Clear colourless liq. or solid
Colour (APHA) ..... ≤10
Identification (I.R.)..... Conform
Water solubility..... Conform
Alcohol miscibility..... Conform
Boiling point..... 81.7 ÷ 82.7 ° C
Melting point..... 25 ÷ 26 ° C
Water (K.F.) ..... ≤0.1 %
Residue on evaporation .....≤30 ppm
Acidity .....≤ 0.001 meq/g
Assay (GLC) ..... ≥99.5 %
Carbonyl compounds (as HCHO).. ≤ 0.01 %

Code	Size	Packaging	Notes
414343	500 ml	Plastic bottle	
414341	1 l	Glass bottle	
414346	2.5 l	Plastic bottle	
414342	25 l	Plastic tank	

tert-Butanol > RE - Pure

RE

Refractive index at 20°C..... 1.386 - 1.39
Colour .....≤ 10 Hazen
Water content (K.F.) .....≤ 800 mg/Kg
Non volatile residue .....≤ 20 mg/Kg
Assay (GC).....≥ 99.5 %

Code	Size	Packaging	Notes
P0190222	5 l	Plastic tank	
P0190268	200 l	Metal drum	

2-Butanone ▶ Ethyl methyl ketone

2-Butoxy ethanol

2-Butossietanolo • 2-Butoxyéthanol • 2-Butoxietanol

Synonym:
Ethylene glycol butyl ether
Butyl glycol

$CH_3(CH_2)_3OCH_2CH_2OH$
Molecular Weight: 118,18
CAS: 111-76-2
EEC-N: 203-905-0

Warning
H302-H312-H332-H315-H319
P264-P271-P304+P340-P305+P351+P338-P330-P332+P313

2-Butoxy ethanol > RPE - For analysis

RPE

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 20° C .....0.897 ÷ 0.905
Refractive index at 20°C. 1.4167 ÷ 1.4207
Boiling point..... 167 ÷ 172 ° C
Water (K.F.) ..... ≤ 0.1 %
Residue on evaporation .....≤50 ppm
Assay (GLC) ..... ≥ 99 %

Code	Size	Packaging	Notes
453941	1 l	Glass bottle	

2-Butoxy ethanol > RE - Pure

RE

Refractive index at 20°C..... 1.417 - 1.421
Water content (K.F.) .....≤ 2000 mg/Kg
Colour ..... ≤ 15 Hazen
Assay (GC)..... ≥ 99 %

Code	Size	Packaging	Notes
P6310222	5 l	Plastic tank	

2-(2-Butoxyethoxy)ethanol

2-(2-Butossietossi)etanolo • 2-(2-Butoxyéthoxy)éthanol • 2-(2-Butoxietoxi) etanol

Synonym:
Diethylene glycol butyl ether
BDG

$C_8H_{18}O_3$
Molecular Weight: 162,23
CAS: 112-34-5
EEC-N: 203-961-6

Warning
H319
P264-P280i-P305+P351+P338-P337+P313-P501a

2-(2-Butoxyethoxy)ethanol > RPE - For analysis

RPE

Description ..... Clear colourless liquid
Identification ..... Positive
Water miscibility..... Conform
Density at 20° C .....0.951 ÷ 0.959
Refractive index at 20°C. 1.4296 ÷ 1.4346
Boiling point..... 230.0 ÷ 232.0 °C
Water (K.F.) ..... ≤0.2 %
Acidity (acetic acid).....≤300 ppm
Alcalinity (NH3).....≤0.85 ppm
Carbonyl Compounds (CO) .....≤500 ppm
Heavy metals (Pb).....≤2 ppm
Peroxides (H2O2) .....≤250 ppm
Residue on ignition.....≤20 ppm
Fe .....≤2 ppm
Assay (GLC) ..... ≥99 %

Code	Size	Packaging	Notes
453881	1 l	Glass bottle	
453883	25 kg	Metal drum	

2-(2-Butoxyethoxy)ethanol > RE - Pure

RE

Refractive index at 20°C ..... 1.43 - 1.434 | Water content (K.F.) ..... ≤ 1500 mg/Kg | Colour ..... ≤ 10 Hazen | Assay (GC) ..... ≥ 97 %

Code	Size	Packaging	Notes
P6250222	5 l	Plastic tank	

n-Butyl acetate

n-Butile acetato • n-butyle acétate • n-Butilo acetate

$CH_3COO(CH_2)_3CH_3$
Molecular Weight: 116,16
CAS: 123-86-4
EEC-N: 204-658-1

Classification transport
ONU: 1123
Transport Hazard class: 3
Packing group III

Warning
H226-H336-HEU066
P210-P241-P243-P303+P361+P353-P304+P340-P403+P235

n-Butyl acetate > RS - Anhydrous - For analysis

RS

Refractive index at 20°C ..... 1.392 - 1.396 | Non volatile residue ..... ≤ 10 mg/Kg | Assay (GC) ..... ≥ 99.5 %
Water content (K.F.) ..... ≤ 100 mg/Kg | Colour ..... ≤ 10 Hazen | Free acid (as CH3COOH) ..... ≤ 50 mg/Kg

Code	Size	Packaging	Notes
P0011016	1 l	Glass bottle	
P0011021	2.5 l	Glass bottle	

n-Butyl acetate > RPE - For analysis

RPE

Description ..... Clear colourless liquid
Identification (I.R.) ..... Conform
Ready carbonizable substances ..... Conform
Density at 20° C ..... 0.878 ÷ 0.884
Refractive index at 20°C . 1.3926 ÷ 1.3976
Boiling point ..... 126.0 ÷ 127.0 °C
Acidity or alkalinity ..... ≤0.001 meq/g

Water (K.F.) ..... ≤0.1 %
Butan-1-ol ..... ≤0.5 %
n-Butyl formate ..... ≤0.1 %
Butyl propanoate ..... ≤0.1 %
iso-Butyl acetate ..... ≤0.5 %
Residue on evaporation ..... ≤10 ppm
Total phosphorus ..... ≤0.2 ppm

Total silicon ..... ≤0.02 ppm
Total sulphur ..... ≤0.5 ppm
Ca ..... ≤0.2 ppm
Cu ..... ≤0.2 ppm
Fe ..... ≤0.1 ppm
K ..... ≤0.2 ppm
Mg ..... ≤0.02 ppm

Na ..... ≤0.2 ppm
Pb ..... ≤0.05 ppm
Zn ..... ≤0.1 ppm
Assay (GLC) ..... ≥99 %

Code	Size	Packaging	Notes
431601000	1 l	Glass bottle	
431602000	2.5 l	Glass bottle	
431604	200 l	Metal drum	

n-Butyl acetate > RE - Pure

RE

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 20° C ..... 0.876 ÷ 0.886

Refractive index at 20°C ..... 1.3911 ÷ 1.3991
Boiling point ..... 123 ÷ 128 °C
Water (K.F.) ..... ≤0.1 %

Residue on evaporation ..... ≤100 ppm
Acidity (acetic acid) ..... ≤300 ppm
Assay (GLC) ..... ≥99 %

Code	Size	Packaging	Notes
325602	1 l	Glass bottle	
325601	2.5 l	Glass bottle	
325604	5 l	Plastic tank	
325603	24 kg	Metal drum	

n-Butyl alcohol ▶ Butanol-1

sec-Butyl alcohol ▶ Butanol-2

n-Butyl chloride

n-Butile cloruro • n-Butyle chlorure • n-Butilo cloruro

Synonym:
1-Chlorobutane

$CH_3(CH_2)_3Cl$
Molecular Weight: 92,57
CAS: 109-69-3
EEC-N: 203-696-6

Classification transport
ONU: 1127
Transport Hazard class: 3
Packing group II

Danger
H225
P210-P241-P243-P280a-P303+P361+P353-P403+P235

n-Butyl chloride > RS - For HPLC - Isocratic Grade

RS

Clear,colourless liq.appearance ..... Conform
Identification ..... Conform
Colour ..... ≤ 10 Apha
Refractive index at 20°C ..... 1.400 - 1.404
Water content (K.F.) ..... ≤ 100 mg/Kg
Free acid (as HCl) ..... ≤ 10 mg/Kg
Non volatile residue ..... ≤ 10 mg/Kg
UV transmittance at 230 nm ..... ≥ 65 %
UV transmittance at 235 nm ..... ≥ 90 %
UV transmittance at 250 nm ..... ≥ 98 %
UV transmittance at 240 nm ..... ≥ 95 %
Assay (GC) ..... ≥ 99.8 %

Code	Size	Packaging	Notes
431821	1 l	Glass bottle	

n-Butyl chloride > RPE - For analysis

RPE

Description ..... Clear colourless liquid
Identification ..... Positive
Refractive index at 20°C. 1.3981 ÷ 1.4061
Assay (GLC) ..... ≥ 99.5 %
Colour ..... ≤ 10 APHA
1-Butanol ..... ≤ 0.05 %
Water (K.F.) ..... ≤ 150 ppm
Residue on evaporation ..... ≤ 10 ppm

Code	Size	Packaging	Notes
431811	100 ml	Glass bottle	
431817	1 l	Glass bottle	

1,3-Butylene glycol ▶ 1,3-Butanediol

Butylhydroxytoluene

Butile idrossitoluene • Butylhydroxytoluène • Butil hidroxitolueno

Synonym:
2,6-Di-tert-butyl-p-cresol
BHT

$[(CH_3)_3C]_2C_6H_2(CH_3)OH$
Molecular Weight: 220,36
CAS: 128-37-0
EEC-N: 204-881-4

Classification transport
ONU: 3077
Packing group III

Warning
H302-H315-H319
P264-P280g-P305+P351+P338-P330-P332+P313-P337+P313

Butylhydroxytoluene > RPE - For analysis

RPE

Description ..... White semitransparent crystals
Identification ..... Positive
Melting point ..... 69.0 ÷ 71.0 ° C
Residue on ignition ..... ≤0.1 %
Assay (GLC) ..... 99 ÷ 100 %

Code	Size	Packaging	Notes
432121	25 g	Glass bottle	

tert-Butylmethylether

ter-Butilmetiletere • tert-Butylméthyléther • ter-Butilmetiléter

Synonym:
MTBE
Methyl tert-butyl ether

$CH_3OC_4H_9$
Molecular Weight: 88,15
CAS: 1634-04-4
EEC-N: 216-653-1

Classification transport
ONU: 2398
Transport Hazard class: 3
Packing group II

Danger
H225-H315
P210-P241-P264-P243-P303+P361+P353-P403+P235

tert-Butylmethylether > RS - For HPLC - Isocratic Grade

RS

Refractive index at 20°C ..... 1.367 - 1.371
Clear,colourless liq.appearance ..... Conform
Identification ..... Conform
Colour ..... ≤ 10 Apha
Water content (K.F.) ..... ≤ 100 mg/Kg
UV transmittance at 210 nm ..... ≥ 10 %
UV transmittance at 230 nm ..... ≥ 40 %
UV transmittance at 250 nm ..... ≥ 75 %
UV transmittance at 280 nm ..... ≥ 92 %
UV transmittance at 300 nm ..... ≥ 98 %
Assay (GC) ..... ≥ 99.8 %
Methanol + tert-butanol ..... ≤ 0.05 %
Non volatile residue ..... ≤ 10 mg/Kg
Hydrocarbons up to C8 ..... ≤ 0.05 %

Code	Size	Packaging	Notes
432031	1 l	Glass bottle	
432032	2.5 l	Glass bottle	

tert-Butylmethylether > RS - For preparative HPLC

RS

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 20° C ..... 0.730 ÷ 0.750
Boiling point..... 54.8 ÷ 55.8 ° C
Acidity or alkalinity..... ≤0.0002 meq/g
Water (K.F.) ..... ≤200 ppm
Residue on evaporation ..... ≤2 ppm
Assay (GLC) ..... ≥99.5 %
U.V. Transmittance
at 240 nm ..... ≥60 %
at 270 nm ..... ≥95 %

Code	Size	Packaging	Notes
432022000	2.5 l	Glass bottle	

Filtered through 2 µm membrane

tert-Butylmethylether > RS - PESTIPUR - For pesticide analysis

RS

Refractive index at 20°C..... 1.367 - 1.371
Water content (K.F.) ..... ≤ 100 mg/Kg
Colour ..... ≤ 10 Hazen
Assay (GC) ..... ≥ 99.8 %
Non volatile residue ..... ≤ 5 mg/Kg
GC-ECD.Individual peak (Lindane) ..... ≤ 3 ng/l
Retention time trichlorobenzene to mirex
GC-NPD.Individual peak (Ethylparathion) ..... ≤ 3 ng/l
Retention time Atrazin to Coumaphos

Code	Size	Packaging	Notes
432061	1 l	Glass bottle	
432062	2.5 l	Glass bottle	

tert-Butylmethylether > RS - SPECTROSOL - For optical spectroscopy

RS

Clear,colourless liq.appearance ..... Conform
Identification ..... Conform
Colour ..... ≤ 10 Apha
Refractive index at 20°C..... 1.367 - 1.371
Water content (K.F.) ..... ≤ 100 mg/Kg
UV transmittance at 210 nm ..... ≥ 10 %
UV transmittance at 230 nm ..... ≥ 40 %
UV transmittance at 250 nm ..... ≥ 75 %
UV transmittance at 280 nm ..... ≥ 92 %
UV transmittance at 300 nm ..... ≥ 98 %
Methanol + tert-butanol..... ≤ 0.05 %
Assay (GC) ..... ≥ 99.8 %
Non volatile residue ..... ≤ 10 mg/Kg
Hydrocarbons up to C8 ..... ≤ 0.05 %

Code	Size	Packaging	Notes
432001	1 l	Glass bottle	
432002	2.5 l	Glass bottle	

tert-Butylmethylether > RS - Anhydrous - For analysis

RS

Refractive index at 20°C..... 1.367 - 1.371
Water content (K.F.) ..... ≤ 100 mg/Kg
Non volatile residue ..... ≤ 10 mg/Kg
Colour ..... ≤ 10 Hazen
Assay (GC) ..... ≥ 99.8 %
Methanol + tert-butanol..... ≤ 0.05 %
Hydrocarbons up to C8 ..... ≤ 0.05 %

Code	Size	Packaging	Notes
P0921016	1 l	Glass bottle	

tert-Butylmethylether > RPE - For analysis

RPE

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 20° C ..... 0.730 ÷ 0.750
Boiling point..... 53 ÷ 56 ° C
Water (K.F.) ..... ≤100 ppm
Peroxides (H2O2) ..... ≤10 ppm
Methyl alcohol..... ≤0.1 %
Refractive index at 20°C..... 1.368 ÷ 1.370
Assay (GLC) ..... ≥99.5 %

Code	Size	Packaging	Notes
432011	500 ml	Glass bottle	
432013	2.5 l	Glass bottle	
432015	20 kg	Aluminium can	

tert-Butylmethylether > RE - Pure

RE

Description ..... Clear liquid
Density at 20°C ..... 0.730 ÷ 0.750
Refractive index at 20°C. 1.3635 ÷ 1.3735
Boiling point..... 54.8 ÷ 55.8 °C
Water (K.F.) ..... ≤ 300 ppm
Residue on evaporation ..... ≤ 30 ppm
Assay (GLC) ..... ≥ 99.9 %
Methanol + tert-butanol..... ≤ 0.1 %

Code	Size	Packaging	Notes
528974	1 l	Glass bottle	
528970	5 l	Plastic tank	
528971	25 l	Metal drum	
528979	200 l	Metal drum	

n-Butyric acid

Acido n-butirrico • Acide n-butyrique • Acido n-butírico

$CH_3CH_2CH_2COOH$
Molecular Weight: 88,11
CAS: 107-92-6
EEC-N: 203-532-3

Classification transport
ONU: 2820
Transport Hazard class: 8
Packing group III

Danger
H314
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

n-Butyric acid > RPE - For analysis - Reag. Ph.Eur.

RPE

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 20° C ..... 0.953 ÷ 0.957
Refractive index at 20°C . 1.3961 ÷ 1.4021
Boiling point..... 163.0 ÷ 164.0 °C
Chloride.....≤50 ppm
Heavy metals (Pb).....≤20 ppm
Residue on ignition.....≤100 ppm
Sulphate.....≤50 ppm
Fe .....≤10 ppm
Assay (GLC) ..... ≥99 %

Code	Size	Packaging	Notes
403236	250 ml	Glass bottle	

Cadmium standard solution

Cadmio standard soluzione • Cadmium standard solution • Cadmio, solución patrón

Danger
H340-H350-H373-HA26
P280-P260-P201-P202-P308+P313-P314

Cadmium standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2

RS

Code	Size	Packaging	Notes
615000700	100 ml	Plastic bottle	A 0.1 % solution Ref Ph.Eur 5000700
615000709	100 ml	Plastic bottle	A 10 ppm solution : to dilute according to Ref Ph.Eur 5000701

Cadmium standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505547	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505548	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid
505549	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Cadmium standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
503491	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503495	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
503493	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503497	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Cadmium standard solution > RS - Standard solution for AAS

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
497475	100 ml	Glass bottle	conc. 1.000 ppm Matrix : Nitric acid
497471	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Cadmium standard solution > RS - NORMEX - Concentrated solution for AAS

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
432311		Plastic ampoule	conc. 1.000 ppm Matrix : Nitric acid - Volume : 50 ml

Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package

Cadmium standard solution > RS - Quality control standard solution for AAS (graphite furnace)

RS

Code	Size	Packaging	Notes
504360	50 ml	Plastic bottle	conc. 5 +/- 0,5 µg/L Matrix : 2% Nitric acid

Cadmium acetate dihydrate

Cadmio acetato diidrato • Cadmium acetate dihydrate • Cadmio acetato dihidrato

$Cd(CH_3COO)_2.2H_2O$
Molecular Weight: 266,52
CAS: 5743-04-4
EEC-N: 208-853-2

Classification transport
ONU: 2570
Transport Hazard class: 6.1
Packing group III

Danger
H301-H312-H330-H340-H350-H361d-H372-H410-HA26
P264-P273-P271-P284-P304+P340-P301+P310a

Cadmium acetate dihydrate > RPE - For analysis - Reag. USP

RPE

Description ..... White crystals
Identification ..... Positive
Water-insoluble matter ..... ≤ 0.005 %
Nitrate ..... ≤ 30 ppm
Substances not ppt. H2S ..... ≤ 0.1 %
Sulphate ..... ≤ 50 ppm
Cu ..... ≤ 10 ppm
Fe ..... ≤ 10 ppm
Pb ..... ≤ 50 ppm
Zn ..... ≤ 500 ppm
Assay (complexometric) ..... ≥ 97.5 %

Code	Size	Packaging	Notes
432344	100 g	Glass bottle	
432345	250 g	Plastic bottle	
432347	1 kg	Plastic bottle	

Cadmium carbonate

Cadmio carbonato • Cadmium carbonate • Cadmio carbonato

Synonym:
Otavite

$CdCO_3$
Molecular Weight: 172,42
CAS: 513-78-0
EEC-N: 208-168-9

Classification transport
ONU: 2570
Transport Hazard class: 6.1
Packing group III

Danger
H301-H312-H330-H340-H350-H361d-H372-H410-HA26
P264-P273-P271-P284-P304+P340-P301+P310a

Cadmium carbonate > RPE - For analysis

RPE

Description ..... White powder
Identification ..... Positive
HCl-insoluble matter ..... ≤100 ppm
Cu ..... ≤100 ppm
Pb ..... ≥100 ppm
Assay (complexometric) ..... 97 ÷ 100 %

Code	Size	Packaging	Notes
432444	100 g	Glass bottle	
432446	500 g	Plastic bottle	

Cadmium chloride monohydrate

Cadmio cloruro monoidrato • Cadmium chlorure monohydraté • Cadmio cloruro monohidrato

$CdCl_2.H_2O$
Molecular Weight: 201,32
CAS: 35658-65-2
EEC-N: 233-296-7

Classification transport
ONU: 2570
Transport Hazard class: 6.1
Packing group III

Danger
H301-H332-H350-H372-H400-H410-HA26
P264-P273-P271-P304+P340-P301+P310a-P308+P313

Cadmium chloride monohydrate > RE - Pure

RE

Description ..... White crystals
Identification ..... Positive
Substances not ppt. H2S ..... ≤0.2 %
Sulphate ..... ≤200 ppm
Cu ..... ≤20 ppm
Fe ..... ≤10 ppm
Pb ..... ≤50 ppm
Zn ..... ≤200 ppm
Assay ..... ≥98 %

Code	Size	Packaging	Notes
325741	100 g	Glass bottle	

Cadmium nitrate tetrahydrate

Cadmio nitrato tetraidrato • Cadmium nitrate tétrahydraté • Cadmio nitrato tetrahidratado

Synonym:
Nitric acid,cadmium salt tetrahydrate

$Cd(NO_3)_2.4H_2O$
Molecular Weight: 308,47
CAS: 10022-68-1
EEC-N: 233-710-6

Classification transport
ONU: 3087
Transport Hazard class: 5.1
Packing group II

Danger
H272-H301-H330-H340-H350-H360FD-H372-H410-HA26
P221-P264-P273-P210a-P271-P304+P340

Cadmium nitrate tetrahydrate > RPE - For analysis

RPE

Description ..... White crystals
Identification ..... Positive
Water-insoluble matter ..... ≤ 100 ppm
Chloride ..... ≤ 50 ppm
Ammonium ..... ≤ 300 ppm
Cu ..... ≤ 30 ppm
Fe ..... ≤ 10 ppm
Na ..... ≤ 100 ppm
Pb ..... ≤ 50 ppm
Zn ..... ≤ 50 ppm
Assay (complexometric) ..... ≥ 99 %

Code	Size	Packaging	Notes
432644	100 g	Glass bottle	
432645	500 g	Glass bottle	

Caffeine anhydrous

Caffeina anidra • Caféine anhydre • Cafeína anhidra

Synonym:
1,3,7-Trimethylxanthine

$C_8H_{10}N_4O_2$
Molecular Weight: 194,19
CAS: 58-08-2
EEC-N: 200-362-1

Classification transport
ONU: 1544
Packing group III

Warning
H302
P264-P270-P330-P301+P312a-P501a

Caffeine anhydrous > ERBApharm - According to pharmacopoeia : Ph.Eur.-USP-FU-Ph.Franc.-BP-DAB

ERBApharm

Description ..... White crystalline powder
Identification ..... Positive
Appearance of solution .....Conform Ph.Eur.
Acidity .....Conform Ph.Eur.
Related substances .....Conform Ph.Eur.
Organic volatile impurities Conform USP-NF
Ready carbonizable substances.....Conform USP-NF
Other alkaloids ..... Conform USP-NF
Melting point.....235 ÷ 239 °C s.s.
Loss on drying ..... ≤ 0.5 %
Sulphated ash..... ≤ 0.1 %
Heavy metals (Pb).....≤ 10 ppm
Sulphate .....≤ 500 ppm
Impurity (HPLC) ..... ≤ 0.1 %
Assay (non-aqueos medium) .98.5 ÷ 101.0 % s.s.
Assay (HPLC) .....98.5 ÷ 101.0 % s.s.

Code	Size	Packaging	Notes
326356	500 g	Plastic bottle	
326357	1 kg	Plastic bottle	
326358	25 kg	Plastic bucket	

Calcein ▶ Fluorexon

Calcium standard solution

Calcio standard soluzione • Calcium standard solution • Calcio, solución patrón

Classification transport
ONU: 3264
Transport Hazard class: 8
Packing group III

Danger
H314
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Calcium standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2

RS

Code	Size	Packaging	Notes
615000801	100 ml	Plastic bottle	A 100 ppm solution : to dilute according to Ref Ph.Eur 5000801
615000802	100 ml	Plastic bottle	A 100 ppm alcoholic solution : to dilute according to Ph.Eur 5000802
615000803	100 ml	Plastic bottle	A 10 ppm solution : to dilute according to Ref Ph.Eur 5000803
615000804	100 ml	Plastic bottle	A 100 ppm solution R1: to dilute according to Ref Ph.Eur 5000804
615000809	100 ml	Plastic bottle	A 400 ppm solution : to dilute according to Ref Ph.Eur 5000800

Calcium standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505542	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505545	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid
505543	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Calcium standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
503481	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503485	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
503483	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503487	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Calcium standard solution > RS - Standard solution for AAS

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
E497485	100 ml	Glass bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
507530	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
507476	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
E497481	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Calcium standard solution > RS - NORMEX - Concentrated solution for AAS

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
432941		Plastic ampoule	conc. 1.000 ppm Matrix : Nitric acid - Volume : 50 ml

Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package

Calcium standard solution > RS - Standard solution for ion chromatography

RS

Code	Size	Packaging	Notes
503221	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503223	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503389	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water and nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Calcium acetate anhydrous

Calcio acetato anidro • Calcium acétate anhydre • Calcio acetato anhidro

$Ca(CH3COO)2.H_2O$
Molecular Weight: 158,17
CAS: 62-54-4
EEC-N: 200-540-9

Calcium acetate anhydrous > ERBApharm - According to pharmacopoeia : BP

ERBApharm

Description ..... White powder
Identification ..... Positive
Nitrate ..... Conform BP
Ready oxidizable substances .... Conform BP
Water (K.F.) ..... ≤7 %
Alcalinity ..... Conform
Chloride ..... ≤330 ppm
Heavy metals (Pb) ..... ≤20 ppm
Sulphate ..... ≤600 ppm
Al ..... ≤1 ppm
As ..... ≤2 ppm
Ba ..... ≤50 ppm
K ..... ≤0.1 %
Na ..... ≤0.5 %
Mg ..... ≤500 ppm
Assay (complexometric) 98.0 ÷ 100.5 % s.s.

Code	Size	Packaging	Notes
326511	1 kg	Plastic bottle	
326512	5 kg	Plastic jar	
326513	25 kg	Plastic bucket	

Calcium acetate anhydrous > RE - Pure

RE

Description ..... White powder
Identification ..... Positive
pH sol. 1% ..... 7 ÷ 8
Chloride ..... ≤ 500 ppm
Water-insoluble matter ..... ≤ 500 ppm
Loss on drying ..... ≤ 6 %
Heavy metals (Pb) ..... ≤ 5 ppm
Sulphate ..... ≤ 500 ppm
As ..... ≤ 2 ppm
Fe ..... ≤ 10 ppm
Assay ..... ≥ 99 %

Code	Size	Packaging	Notes
326507	1 kg	Plastic bottle	
326503	25 kg	Plastic bucket	

Calcium acetate monohydrate

Calcio acetato monoidrato • Calcium acétate monohydrate • Calcio acetato monohidrato

$Ca(CH_3COO)_2.H_2O$
Molecular Weight: 158,17
CAS: 5743-26-0
EEC-N: 611-528-1

Calcium acetate monohydrate > RPE - For analysis

RPE

Description ..... White crystalline powder
Identification ..... Positive
pH sol. 5% at 25° C ..... 7.5 ÷ 8.5
Loss on drying ..... ≤ 10 %
Chloride ..... ≤ 20 ppm
Water insoluble substances..... ≤ 0.01 %
Heavy metals (Pb)..... ≤ 10 ppm
Nitrate ..... ≤ 20 ppm
Sulphate ..... ≤ 50 ppm
Ba ..... ≤ 30 ppm
Fe ..... ≤ 10 ppm
K ..... ≤ 100 ppm
Na ..... ≤ 500 ppm
Sr ..... ≤ 0.1 %
Assay (complexometric) ..... ≥ 99 %

Code	Size	Packaging	Notes
432985	250 g	Plastic bottle	
432987	1 kg	Plastic bottle	
432982	25 kg	Plastic bucket	

Calcium carbonate

Calcio carbonato • Calcium carbonate • Calcio carbonato

$CaCO_3$
Molecular Weight: 100,09
CAS: 471-34-1

Calcium carbonate > RS - For enviromental analysis

RS

Description ..... White powder
Identification ..... Positive
Chloride ..... < 200 ppm
Sulphate ..... < 2000 ppm
Heavy metals (Pb)..... < 20 ppm
Perdita essiccamento (200°C)..... < 0.5 %
As ..... < 4 ppm
Acid insoluble ..... < 0.2 %
Assay (complexometric) ..... > 98.5 % s.s.

Code	Size	Packaging	Notes
433216	500 g	Plastic bottle	

Low content in alkali

Calcium carbonate > RS - For chromatography

RS

Description ..... White powder
Identification ..... Positive

Code	Size	Packaging	Notes
433245	250 g	Plastic bottle	

Calcium carbonate > RS - TOC standard

RS

Code	Size	Packaging	Notes
505008	100 ml	Plastic bottle	conc. 50 mg/l
505009	100 ml	Plastic bottle	conc. 100 mg/l
505012	500 ml	Plastic bottle	conc. 100 mg/l

Calcium carbonate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description ..... White powder
Identification ..... Positive
Diluted hydrochloric acid insoluble.... ≤ 100 ppm
Ammonium ..... ≤ 30 ppm
Chloride ..... ≤ 10 ppm
Fluoride ..... ≤ 15 ppm
Sulphate ..... ≤ 100 ppm
Heavy metals (Pb)..... ≤ 10 ppm
Ba ..... ≤ 100 ppm
Fe ..... ≤ 30 ppm
K ..... ≤ 100 ppm
Mg ..... ≤ 200 ppm
Na ..... ≤ 0.1 %
Sr ..... ≤ 0.1 %
Assay (complexometric)99.0 ÷ 100.5 % s.s.
As ..... ≤ 4 ppm

Code	Size	Packaging	Notes
433185	250 g	Plastic bottle	
433187	1 kg	Plastic bottle	
433183	25 kg	Sack	

Calcium carbonate > ERBApharm - According to pharmacopoeia : Ph.Eur.-USP

ERBApharm

Description ..... White powder
Identification ..... Positive
Barium ..... Conform Ph.Eur.
Organic volatile impurities Conform USP-NF
Loss on drying ..... ≤ 2.0 %
Magnesium and alkali metals..... ≤ 1.0 %
Substances insoluble in acetic acid ≤ 0.2 %
Sustances insoluble in hydrochloric acid .. ≤ 0.2 %
Chloride..... ≤ 330 ppm
Fluoride ..... ≤ 50 ppm
Sulphate ..... ≤ 0.25 %
Heavy metals (Pb)..... ≤ 20 ppm
As ..... ≤ 3 ppm
Fe ..... ≤ 200 ppm
Hg..... ≤ 0.5 ppm
Pb ..... ≤ 3 ppm
Assay (complexometric)98.5 ÷ 100.5 % s.s.
Origin (BSE/TSE)..... Synthesis
Residual solvents (Current ICH)..... Conform

Code	Size	Packaging	Notes
327101	1 kg	Plastic bottle	
327105	25 kg	Sack	

Calcium carbonate > RE - Pure

RE

Description ..... White powder
Identification ..... Positive
Loss on drying ..... ≤2 %
Assay (complexometric) ..... ≥ 98.0 %
Soluble alcalies(NaCO3) ..... ≤0.26 %
Chloride..... ≤350 ppm
Apparent density ..... 400 ÷ 600 g/l
Heavy metals (Pb)..... ≤30 ppm
Sulphate ..... ≤0.8 %
As ..... ≤5 ppm
Fe ..... ≤200 ppm
Assay (alkalimetric)..... 98.5 ÷ 100.5 % s.s.

Code	Size	Packaging	Notes
327002	2.5 kg	Plastic jar	Light powder
327059	5 kg	Plastic jar	Heavy powder
327003	25 kg	Plastic bucket	Light powder

Calcium chloride anhydrous

Calcio cloruro anidro • Calcium chlorure anhydre • Calcio cloruro anhidro

$CaCl_2$
Molecular Weight: 110,99
CAS: 10043-52-4
EEC-N: 233-140-8

Warning
H319
P264-P280i-P305+P351+P338-P337+P313

Calcium chloride anhydrous > RS - For microanalysis

RS

Description ..... White granules
Identification ..... Positive
Diameter..... 1 - 6 mm
Assay (complexometric) ..... ≥96 %

Code	Size	Packaging	Notes
433535	250 g	Plastic bottle	Granular

Calcium chloride anhydrous > RPE - For analysis

RPE

Description ..... White powder
Identification ..... Positive
Acidity ..... < 50 ppm
Alcalinity..... < 0.3 %
Water-insoluble matter ..... < 0.1 %
Sulphate ..... < 500 ppm
Heavy metals (Pb)..... < 50 ppm
Ba ..... < 100 ppm
Fe ..... < 50 ppm
Mg ..... < 0.1 %
Assay (complexometric) ..... ≥ 96.0 %

Code	Size	Packaging	Notes
433403	100 g	Plastic bottle	
433406	500 g	Plastic bottle	
433407	1 kg	Plastic bottle	
433405	25 kg	Drum	

Calcium chloride anhydrous > RE - Pure - Powder

RE

Description ..... White powder
Identification ..... Positive
Assay (complexometric) ..... 93.0 ÷ 100.5 %
HCl-insoluble matter..... ≤ 200 ppm
Magnesio e sali alcalini..... ≤ 5.0 %
Fluoride ..... ≤ 40 ppm
Heavy metals (Pb)..... ≤ 20 ppm
As ..... ≤ 3 ppm
Pb ..... ≤ 5 ppm

Code	Size	Packaging	Notes
328257	1 kg	Plastic bottle	
328258	5 kg	Plastic jar	
328252	25 kg	Plastic bucket	

Calcium chloride anhydrous > RE - Pure - Granular

RE

Description ..... white pellets
Identification ..... Positive
Diameter.....15 - 30 mm
Granulo 1,25-5 mm .....≥ 75 %
Assay (complexometric) .....≥ 90 %

Code	Size	Packaging	Notes
328757	1 kg	Plastic bottle	Ø 1.25 - 4 mm
328807	1 kg	Plastic bottle	Ø 15-30 mm
328759	5 kg	Plastic jar	Ø 1.25 - 4 mm
328809	5 kg	Plastic jar	Ø 15-30 mm

Calcium chloride dihydrate

Calcio cloruro biidrato • Calcium chlorure dihydraté • Calcio cloruro dihidrato

$CaCl_2.2H_2O$
Molecular Weight: 147,02
CAS: 10035-04-8
EEC-N: 233-140-8

Warning
H302-H319
P264-P280i-P305+P351+P338-P330-P337+P313-P301+P312a

Calcium chloride dihydrate > RPE - For analysis - ACS

RPE

Description ..... White crystalline powder
Identification ..... Positive
pH sol. 5% at 25° C .....4.5 ÷ 8.5
Water-insoluble matter .....≤ 100 ppm
Heavy metals (Pb).....≤ 5 ppm
Sulphate .....≤ 100 ppm
Ba .....≤ 50 ppm
Fe .....≤ 10 ppm
K.....≤ 100 ppm
Mg .....≤ 50 ppm
Assay (complexometric) ....99.0 ÷ 105.0 %
Na..... ≤ 0.02 %
Sr..... ≤ 0.1 %
Ammonium .....≤ 50 ppm
Oxidizing substances .....≤ 30 ppm

Code	Size	Packaging	Notes
433386	100 g	Plastic bottle	
433387	500 g	Plastic bottle	
433381	1 kg	Plastic bottle	
433382	5 kg	Plastic jar	
433384	25 kg	Plastic bucket	

Calcium chloride dihydrate > ERBApharm - According to pharmacopoeia : Ph.Eur.-USP-FU-Ph.Franc.-BP-DAB

ERBApharm

Description ..... White crystalline powder
Identification ..... Positive
Appearance of solution .....Conform Ph.Eur.
Acidity or alkalinity.....Conform Ph.Eur.
Ba .....Conform Ph.Eur.
Fe,Al and Phosphate ..... Conform USP-NF
Organic volatile impurities Conform USP-NF
pH (1:20) .....4.5 ÷ 9.2
Heavy metals (Pb).....≤ 10 ppm
Sulphate .....≤ 300 ppm
Mg and alkaline metals..... ≤ 0.5 %
Al .....≤ 1 ppm
Fe .....≤ 10 ppm
Assay (complexometric) ....99.0 ÷ 103.0 %
Origin (BSE/TSE)..... Synthesis
Residual solvents (Current ICH).....Conform

Code	Size	Packaging	Notes
327607	1 kg	Plastic bottle	
327609	5 kg	Plastic jar	
327603	25 kg	Plastic bucket	

Calcium chloride hexahydrate

Calcio cloruro esaidrato • Calcium chlorure hexahydraté • Calcio cloruro hexahidrato

$CaCl_2.6H_2O$
Molecular Weight: 219,08
CAS: 7774-34-7
EEC-N: 233-140-8

Warning
H302-H319
P264-P280i-P305+P351+P338-P330-P337+P313-P301+P312a

Calcium chloride hexahydrate > RPE - For analysis

RPE

Description .White semitransparent crystals
Identification ..... Positive
Oxidizing substances (NO3).....≤ 30 ppm
pH sol. 5% at 25° C .....4.5 ÷ 8.5
Ammonium .....≤ 50 ppm
Phosphate .....≤ 10 ppm
Water ins.ble/ppt NH4OH.....≤ 100 ppm
Heavy metals (Pb).....≤ 5 ppm
Sulphate .....≤ 100 ppm
As .....≤ 1 ppm
Ba .....≤ 50 ppm
Cu .....≤ 5 ppm
Fe .....≤ 25 ppm
Mg .....≤ 50 ppm
Ni.....≤ 5 ppm
Pb .....≤ 5 ppm
Zn .....≤ 10 ppm
Assay (complexometric) ..... ≥ 98.0 %
Mn .....≤ 5 ppm
Sr.....≤ 100 ppm

Code	Size	Packaging	Notes
433377	1 kg	Plastic bottle	
433371	5 kg	Plastic jar	
433375	25 kg	Drum	

Calcium chloride hexahydrate > ERBApharm - According to pharmacopoeia : Ph.Eur.

ERBApharm

Description ..... White crystalline mass
Identification ..... Positive
Appearance of solution .....Conform Ph.Eur.
Acidity or alkalinity.....Conform Ph.Eur.
Sulphate .....≤ 200 ppm
Al .....Conform Ph.Eur.
Ba .....Conform Ph.Eur.
Heavy metals (Pb).....≤ 15 ppm
Fe .....≤ 7 ppm
Mg and alkaline metals..... ≤ 0.3 %
Assay (complexometric) ....97.0 ÷ 103.0 %

Code	Size	Packaging	Notes
327507	1 kg	Plastic bottle	
327509	5 kg	Plastic jar	

Calcium chloride solution 0.025%

Calcio cloruro soluzione 0.025% • Calcium chlorure solution 0.025% • Calcio cloruro solución 0.025%

Calcium chloride solution 0.025% > RPE - For analysis

RPE

Description ..... Clear colourless liquid
Identification ..... Positive
Assay (complexometric) ..... 0.022 ÷ 0.028 %

Code	Size	Packaging	Notes
E433427	1 l	Plastic bottle	

Calcium citrate tribasic tetrahydrate

Calcio citrato tribasico tetraidrato • Calcium citrate tribasique tétrahydraté • Calcio citrato tribásico tetrahidrato

Synonym:
Calcium citrate tetrahydrate
Tricalcium dicitrate tetrahydrate

$Ca_3(C_6H_5O_7)_2.4H_2O$
Molecular Weight: 570,49
CAS: 5785-44-4
EEC-N: 212-391-7

Calcium citrate tribasic tetrahydrate > RPE - For analysis

RPE

Description ..... White powder
Identification ..... Positive
As .....≤ 3 ppm
Loss on drying at 150°C.....10.0 ÷ 13.3 %
Chloride.....≤ 30 ppm
HCl-insoluble matter..... ≤ 0.05 %
Heavy metals (Pb).....≤ 20 ppm
Sulphate .....≤ 200 ppm
Cu .....≤ 10 ppm
Fe .....≤ 20 ppm
Mg .....≤ 500 ppm
Ni.....≤ 10 ppm
Pb .....≤ 10 ppm
Assay (complexometric) ..... ≥ 98.0 %

Code	Size	Packaging	Notes
433325	250 g	Plastic bottle	
433327	1 kg	Plastic jar	

Calcium dihydrogenphosphate monohydrate ▶ Calcium phosphate monobasic monohydrate

Calcium fluoride

Calcio fluoruro • Calcium fluorure • Calcio fluoruro

Synonym:
Fluorite

CaF_2
Molecular Weight: 78,08
CAS: 7789-75-5
EEC-N: 232-188-7

Warning
H315-H319-H335
P264-P271-P280-P304+P340-P305+P351+P338-P312a

Calcium fluoride > RPE - For analysis

RPE

Description ..... White powder
Identification ..... Positive
Loss on ignition..... ≤ 0.5 %
Chloride..... ≤ 0.1 %
Sulphate .....≤ 50 ppm
Co .....≤ 5 ppm
Cr.....≤ 5 ppm
Cu .....≤ 1 ppm
Fe .....≤ 10 ppm
Mn .....≤ 1 ppm
Ni.....≤ 5 ppm
Assay (complexometric) ..... ≥ 98 %

Code	Size	Packaging	Notes
433585	250 g	Plastic bottle	
433587	1 kg	Plastic bottle	

Calcium formate

Calcio formiato • Calcium formiate • Calcio formiato

Synonym:
Formic acid calcium salt

$Ca(HCOO)_2$
Molecular Weight: 130,12
CAS: 544-17-2
EEC-N: 208-863-7

Warning
H302-H319
P264-P280-P305+P351+P338-P330-P337+P313-P301+P312a

Calcium formate > RPE - For analysis

RPE

Description .....White crystalline powder
Identification ..... Positive
Assay (non-aqueos medium).....≥ 97.5 %

Code	Size	Packaging	Notes
433637	1 kg	Plastic bottle	

Calcium gluconate

Calcio gluconato • Calcium gluconate • Calcio gluconato

$C_{12}H_{22}CaO_{14}.H_2O$
Molecular Weight: 448,39
CAS: 18016-24-5

Calcium gluconate > ERBApharm - According to pharmacopoeia : FU-Ph.Eur.

ERBApharm

Description ..... White crystalline powder
Identification ..... Positive
Organic imp., boric ac.....Conform Ph.Eur.
Saccarose and red. sug. ....Conform Ph.Eur.
Mg and alkaline metals..... ≤ 0.4 %
Heavy metals (Pb).....≤ 10 ppm
Sulphate.....≤ 100 ppm
Assay (complexometric) ....98.5 ÷ 102.0 %
TAMC ..... ≤ 1000 CFU/g
TYMC ..... ≤ 100 CFU/g

Code	Size	Packaging	Notes
330608	1 kg	Plastic bottle	
330609	5 kg	Plastic jar	

Calcium hydroxide

Calcio idrossido • Calcium hydroxyde • Calcio hidróxido

$Ca(OH)_2$
Molecular Weight: 74,09
CAS: 1305-62-0
EEC-N: 215-137-3

Danger
H315-H318
P264-P280-P305+P351+P338-P332+P313-P302+P352a-P321

Calcium hydroxide > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description ..... White powder
Identification ..... Positive
Carbonate..... ≤ 3.0 %
Chloride.....≤ 300 ppm
Total sulphur ..... ≤ 0.1 %
HCl-insoluble matter.....≤ 300 ppm
Heavy metals (Pb).....≤ 30 ppm
Fe .....≤ 500 ppm
Assay (alkalimetric)..... ≥ 95.0 %
K.....≤ 500 ppm
Na.....≤ 500 ppm
Sr.....≤ 500 ppm
Mg ..... ≤ 0.5 %

Code	Size	Packaging	Notes
433875	250 g	Plastic bottle	
433877	1 kg	Plastic bottle	
433873	50 kg	Plastic drum	

Calcium hydroxide > ERBApharm - According to pharmacopoeia : Ph.Eur.-USP

ERBApharm

Description ..... White powder
Identification ..... Positive
Carbonate..... Conform USP-NF
Organic volatile impurities Conform USP-NF
HCl-insoluble matter..... ≤ 0.5 %
Heavy metals (Pb).....≤ 20 ppm
Mg and alkaline metals..... ≤ 4.0 %
Assay (complexometric) ....95.0 ÷ 100.5 %
Chloride.....≤ 330 ppm
Sulphate ..... ≤ 0.4 %
As .....≤ 4 ppm
Assay (alkalimetric).....95.0 ÷ 100.5 %

Code	Size	Packaging	Notes
331007	1 kg	Plastic bottle	
331008	5 kg	Plastic jar	
331003	25 kg	Plastic bucket	

Calcium hydroxide > RE - Pure

RE

Description ..... White powder
Identification ..... Positive
As ..... ≤ 3 ppm
Heavy metals (Pb)..... ≤ 20 ppm
Assay (complexometric) .....≥ 95 %

Code	Size	Packaging	Notes
326454	1 kg	Plastic bottle	
326458	25 kg	Plastic bucket	

Calcium lactate

Calcio lattato • Calcium lactate • Calcio lactato

Synonym:
L-Lactic acid calcium salt

$(CH_3CHOHCOO)_2Ca.5H_2O$
Molecular Weight: 308,29
CAS: 5743-47-5
EEC-N: 248-953-3

Calcium lactate > ERBApharm - According to pharmacopoeia : BP-FU-Ph.Eur.-Ph.Franc.

ERBApharm

Description ..... White crystalline powder
Identification ..... Positive
Appearance of solution .....Conform Ph.Eur.
Acidity or alkalinity.....Conform Ph.Eur.
Ba .....Conform Ph.Eur.
Loss on drying .....22.0 ÷ 27.0 %
Chloride.....≤ 200 ppm
Heavy metals (Pb).....≤ 10 ppm
Mg and alkaline metals..... ≤ 1 %
Sulphate .....≤ 400 ppm
Fe .....≤ 50 ppm
Assay (complexometric)98.0 ÷ 102.0 % s.s.

Code	Size	Packaging	Notes
331407	1 kg	Plastic bottle	
331408	5 kg	Plastic jar	

Calcium nitrate tetrahydrate

Calcio nitrato tetraidrato • Calcium nitrate tétrahydraté • Calcio nitrato tetrahidrato

$Ca(NO_3)_2.4H_2O$
Molecular Weight: 236,15
CAS: 13477-34-4
EEC-N: 233-332-1

Classification transport
ONU: 1454
Transport Hazard class: 5.1
Packing group III

Danger
H272-H315-H319
P210-P221-P264-P280-P305+P351+P338-P332+P313

Calcium nitrate tetrahydrate > RPE - For analysis - ACS

RPE

Description .....White crystals
Identification ..... Positive
pH sol. 5% at 25° C .....5.0 ÷ 7.0
Water-insoluble matter .....≤ 50 ppm
Chloride.....≤ 50 ppm
Nitrite .....≤ 10 ppm
Sulphate .....≤ 20 ppm
Heavy metals (Pb).....≤ 5 ppm
Ba .....≤ 50 ppm
Fe .....≤ 5 ppm
Assay (complexometric) ....99.0 ÷ 103.0 %
Mg ..... ≤ 0.05 %
K.....≤ 50 ppm
Na.....≤ 100 ppm
Sr..... ≤ 0.05 %

Code	Size	Packaging	Notes
433955	100 g	Plastic bottle	
433956	500 g	Plastic bottle	
433957	1 kg	Plastic bottle	
433951	5 kg	Plastic jar	

Calcium nitrate tetrahydrate > RE - Pure

RE

Description .....White crystals
Identification ..... Positive
pH sol. 5% at 25° C .....4.0 ÷ 7.0
Ammonium ..... ≤0.5 %
Chloride.....≤500 ppm
Water-insoluble matter .....≤100 ppm
Heavy metals (Pb).....≤50 ppm
Sulphate ..... ≤0.1 %
Fe .....≤100 ppm
Assay (complexometric) .....97 ÷ 100 %

Code	Size	Packaging	Notes
331509	5 kg	Plastic jar	
331501	25 kg	Drum	

Calcium oxide, lumps

Calcio ossido, pezzi • Calcium oxyde, morceaux • Calcio óxido, trozos

CaO
Molecular Weight: 56,08
CAS: 1305-78-8
EEC-N: 215-138-9

Classification transport
ONU: 1910

Danger
H318
P280i-P305+P351+P338-P310a

Calcium oxide, lumps > RE - Pure

RE

Description ..... Whitish lumps
Identification ..... Positive
Loss on ignition ..... ≤5 %
Carbonate ..... ≤5.0 %
HCl-insoluble matter ..... ≤0.5 %
As ..... ≤10 ppm
Fe ..... ≤0.2 %
Assay (alkalimetric) ..... ≥95 %

Code	Size	Packaging	Notes
331557	1 kg	Plastic bottle	
331554	50 kg	Fibre drum	

Calcium oxide, powder

Calcio ossido, polvere • Calcium oxyde, poudre • Calcio óxido, polvo

CaO
Molecular Weight: 56,08
CAS: 1305-78-8
EEC-N: 215-138-9

Classification transport
ONU: 1910

Danger
H318
P280i-P305+P351+P338-P310a

Calcium oxide, powder > RE - Pure

RE

Description ..... White powder
Identification ..... Positive
Calcium carbonate ..... ≤10 %
Loss on ignition ..... ≤5 %

Code	Size	Packaging	Notes
331567	1 kg	Plastic bottle	
331564	25 kg	Plastic bucket	

Calcium phosphate dibasic dihydrate

Calcio fosfato bibasico diidrato • Calcium phosphate dibasique dihydraté • Calcio fosfato dibásico dihidrato

$CaHPO_4.2H_2O$
Molecular Weight: 172,09
CAS: 7789-77-7
EEC-N: 231-826-1

Warning
H315-H319-H335
P264-P271-P304+P340-P305+P351+P338-P312a-P332+P313

Calcium phosphate dibasic dihydrate > ERBApharm - According to pharmacopoeia : Ph.Eur.-USP-FU-Ph. Franc.

ERBApharm

Description ..... White crystalline powder
Identification ..... Positive
Carbonate ..... Conform Ph.Eur.
Ba ..... Conform Ph.Eur.
Loss on ignition ..... 24.5 ÷ 26.5 %
Chloride ..... ≤0.25 %
Fluoride ..... ≤50 ppm
HCl-insoluble matter ..... ≤0.2 %
Heavy metals (Pb) ..... ≤30 ppm
Sulphate ..... ≤0.5 %
As ..... ≤3 ppm
Fe ..... ≤400 ppm
Assay (complexometric) .... 98.0 ÷ 105.0 %

Code	Size	Packaging	Notes
330307	1 kg	Plastic bottle	
330303	25 kg	Plastic bucket	

Calcium phosphate monobasic monohydrate

Calcio fosfato monobasico monoidrato • Calcium phosphate monobasique monohydraté • Calcio fosfato monobásico monohidrato

Synonym:
Calcium dihydrogenphosphate monohydrate

$Ca(H_2PO_4)_2.H_2O$
Molecular Weight: 252,07
CAS: 7758-23-8
EEC-N: 231-837-1

Warning
H315-H319-H335
P264-P271-P280-P304+P340-P305+P351+P338-P312a

Calcium phosphate monobasic monohydrate > RPE - For analysis

RPE

Description ..... White crystalline powder	Cu ..... ≤ 50 ppm	Na ..... ≤ 200 ppm	Zn ..... ≤ 50 ppm
Identification ..... Positive	Fe ..... ≤ 50 ppm	Cd ..... ≤ 50 ppm	Assay (complexometric) ..... ≥ 85 %
Chloride ..... ≤ 50 ppm	K ..... ≤ 100 ppm	Co ..... ≤ 50 ppm	
Sulphate ..... ≤ 0.1 %	Pb ..... ≤ 50 ppm	Ni ..... ≤ 50 ppm	

Code	Size	Packaging	Notes
433685	250 g	Plastic bottle	
433687	1 kg	Plastic bottle	

Calcium phosphate tribasic

Calcio fosfato tribasico • Calcium phosphate tribasique • Calcio fosfato tribásico

Synonym:
tri-Calcium (ortho)phosphate

$Ca_3(PO_4)_2$
Molecular Weight: 310,18
CAS: 7758-87-4
EEC-N: 231-840-8

Calcium phosphate tribasic > RPE - For analysis

RPE

Description ..... White powder	Loss on ignition ..... ≤ 4 %	Pb ..... ≤ 1 ppm	Zn ..... ≤ 25 ppm
Identification ..... Positive	Heavy metals (Pb) ..... ≤ 10 ppm	Assay (acidimetric) ..... ≥ 90 %	Assay (P2O5) ..... 40.5 ÷ 42 %
pH sol 10% ..... 6.5 ÷ 7.5	As ..... ≤ 1 ppm	Cu + Zn ..... ≤ 50 ppm	

Code	Size	Packaging	Notes
433774	100 g	Plastic bottle	
433776	500 g	Plastic bottle	

Calcium phosphate tribasic > ERBApharm - According to pharmacopoeia : Ph.Eur.

ERBApharm

Description ..... White powder	Loss on ignition ..... ≤ 8.0 %	Heavy metals (Pb) ..... ≤ 30 ppm	Fe ..... ≤ 400 ppm
Identification ..... Positive	Chloride ..... ≤ 0.15 %	Sulphate ..... ≤ 0.5 %	Assay (complexometric) . 35.0 ÷ 40.0 % Ca
HCl-insoluble matter ..... ≤ 0.2 %	Fluoride ..... ≤ 75 ppm	As ..... ≤ 4 ppm	

Code	Size	Packaging	Notes
330407	1 kg	Plastic bottle	
330409	5 kg	Plastic jar	
330403	25 kg	Fibre drum	

Calcium propionate

Calcio propionato • Calcium propionate • Calcio propionato

Synonym:
Propionic acid calcium salt

$(CH_3CH_2COO)_2Ca$
Molecular Weight: 186,22
CAS: 4075-81-4
EEC-N: 223-795-8

Calcium propionate > RE - Pure

RE

Description ..... White crystalline powder	pH sol. 1% ..... 7 ÷ 10	Heavy metals (Pb) ..... ≤ 5 ppm	Assay ..... ≥ 97.5 % (s.s.)
Identification ..... Positive	Chloride ..... ≤ 500 ppm	As ..... ≤ 2 ppm	
Water (K.F.) ..... ≤ 4 %	Sulphate ..... ≤ 500 ppm	Fe ..... ≤ 10 ppm	

Code	Size	Packaging	Notes
363974	1 kg	Plastic bottle	
363972	25 kg	Plastic bucket	

Calcium stearate

Calcio stearato • Calcium stéarate • Calcio estearato

Synonym:
Octadecanoic acid calcium salt
Stearic acid calcium salt

$C_{36}H_{70}CaO_4$
Molecular Weight: 607,04
CAS: 1592-23-0
EEC-N: 216-472-8

Calcium stearate > ERBApharm - Vegetal origin - According to pharmacopoeia : USP-NF

ERBApharm

Description ..... White powder
Identification ..... Positive
Loss on drying .....≤4.0 %
Heavy metals (Pb).....≤10 ppm
Origin (BSE/TSE)..... Vegetable
Assay (complexometric) (d.s)..... 6.4 ÷ 7.4 % (Ca)
Stearic acid.....≥ 40.0 %
Stearic + palmitic acid.....≥ 90.0 %
Residual solvents (Current ICH)..... Conform

Code	Size	Packaging	Notes
332262	2.5 kg	Plastic jar	
332261	10 kg	Plastic bucket	
332265	25 kg	Fibre drum	

Calcium sulfate dihydrate

Calcio solfato biidrato • Calcium sulfate dihydraté • Calcio sulfato dihidrato

$CaSO_4.2H_2O$
Molecular Weight: 172,17
CAS: 10101-41-4
EEC-N: 231-900-3

Calcium sulfate dihydrate > RPE - For analysis - ACS

RPE

Description ..... White powder
Identification ..... Positive
Carbonate.....Conform ACS
Chloride.....≤ 50 ppm
HCl-insoluble matter..... ≤ 0.02 %
Heavy metals (Pb).....≤ 20 ppm
Nitrate .....Conform ACS
Fe .....≤ 10 ppm
K.....≤ 50 ppm
Mg ..... ≤ 0.02 %
Na..... ≤ 0.02 %
Sr..... ≤ 0.05 %
Assay (complexometric).....98 ÷ 102 %

Code	Size	Packaging	Notes
434155	100 g	Plastic bottle	
434156	500 g	Plastic bottle	
434151	25 kg	Plastic bucket	

Calcium sulfate dihydrate > ERBApharm - According to pharmacopoeia : NF

ERBApharm

Description .....White crystalline powder
Identification ..... Positive
Fe .....≤100 ppm
Heavy metals (Pb).....≤10 ppm
Loss on drying ..... 19.0 ÷ 23.0 %
Assay .....98.0 ÷ 101.0 %s.s.

Code	Size	Packaging	Notes
331752	5 kg	Plastic jar	
331751	25 kg	Sack	

Calcium sulfate hemihydrate

Calcio solfato emidrato • Calcium sulfate hemihydraté • Calcio sulfato hemihidrato

$CaSO_4.1/2H_2O$
Molecular Weight: 145,15
CAS: 10034-76-1

Calcium sulfate hemihydrate > RE - Pure

RE

Description ..... White powder
Identification ..... Positive
Assay .....≥ 97 %

Code	Size	Packaging	Notes
331761	1 kg	Plastic bottle	
331762	5 kg	Plastic jar	
331763	25 kg	Plastic bucket	

Calcium sulfate hemihydrate solution

Calcio solfato emidrato soluzione • Calcium sulfate hemihydraté solution • Calcio sulfato hemihidrato solución

Calcium sulfate hemihydrate solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611015202	100 ml	Plastic bottle	Ref Ph.Eur 1015201
611015201	1 l	Plastic bottle	Ref Ph.Eur 1015201

Calcon

Calcone • Calcon • Calcón

Synonym:
1-(2-Hydroxy-1-naphthylazo)-2-naphthol -4-sulfonic acid sodium salt

$C_{20}H_{13}N_2NaO_5S$
Molecular Weight: 416,39
CAS: 2538-85-4
EEC-N: 219-810-2

Warning
H315-H319-H335
P264-P271-P280-P304+P340-P305+P351+P338-P312a

Calcon > RPE - For analysis - C.I. 15705

RPE

Description ..... Deep purple powder Identification ..... Positive

Code	Size	Packaging	Notes
434171	25 g	Glass bottle	

Complexometric indicator for Al, Fe, Zr

Calconcarbonic acid

Acido calconcarbonico • Acide calconecarbonique • Acido calconcarbónico

Synonym:
Calconcarboxylic acid
3-Hydroxy-4-(2-hydroxy-4-sulfo-1-naphthylazo) naphthalene-2-carboxylic acid

$C_{21}H_{14}O_7N_2S$
Molecular Weight: 438,42
CAS: 3737-95-9
EEC-N: 223-117-0

Warning
H315-H319-H335
P264-P271-P304+P340-P305+P351+P338-P312a-P332+P313

Calconcarbonic acid > RPE - For analysis - Reag. Ph.Eur.

RPE

Description ..... Polvere viola scura Identification ..... Positive Water ..... ≤ 10 %

Code	Size	Packaging	Notes
403308	5 g	Glass bottle	

Calmagite

Calmagite • Calmagite • Calmagita

Synonym:
3-Hydroxy-4-(2-hydroxy-5methylphenylazo) -naphtalene-1-sulfonic aicd

$C_{17}H_{14}N_2O_5S$
Molecular Weight: 358,37
CAS: 3147-14-6
EEC-N: 221-563-0

Warning
H315-H319-H335
P264-P271-P304+P340-P305+P351+P338-P312a-P332+P313

Calmagite > RPE - For analysis

RPE

Description ..... Black powder Identification ..... Positive

Code	Size	Packaging	Notes
434181	5 g	Glass bottle	
434182	25 g	Glass bottle	

Suitable for the spectrophotometric determination of lanthanide

Camphor natural

Canfora naturale • Camphre naturel • Alcanfor natural

Synonym:
2-Bornanone
2-Camphanone

$C_{10}H_{16}O$
Molecular Weight: 152,23
CAS: 464-49-3
EEC-N: 207-355-2

Classification transport
ONU: 2717
Transport Hazard class: 4.1
Packing group III

Warning
H228-H315-H319-H335
P210-P241-P264-P271-P304+P340-P305+P351+P338

Camphor natural > ERBApharm - According to pharmacopoeia : Ph.Eur.-USP-BP

ERBApharm

Description .....White crystals
Identification ..... Positive
Appearance of solution .....Conform Ph.Eur.
Water .....Conform Ph.Eur.
Acidity or alkalinity.....Conform Ph.Eur.
Sostanze analoghe (GLC) ...Conform Ph.Eur.
Melting point..... 175 ÷ 179 ° C
Specific optical rotation... +41.0 ÷ +43.0 °
Halogenated compounds .....≤100 ppm
Non volat.substances .....≤500 ppm

Code	Size	Packaging	Notes
332356	500 g	Plastic bottle	

Camphor synthetic

Canfora sintetica • Camphre synthétique • Alcanfor sintetico

$C_{10}H_{20}O$
CAS: 21368-68-3
EEC-N: 200-945-0

Classification transport
ONU: 2717
Transport Hazard class: 4.1
Packing group III

Warning
H228-H302-H371
P210-P241-P264-P280-P260-P330

Camphor synthetic > ERBApharm - According to pharmacopoeia : Ph.Eur.-USP-FU-Ph.Franc.-BP-DAB

ERBApharm

Description ..... White crystalline powder
Identification ..... Positive
Appearance of solution .....Conform Ph.Eur.
Water .....Conform Ph.Eur.
Acidity or alkalinity.....Conform Ph.Eur.
Related substances .....Conform Ph.Eur.
Melting point..... 172 ÷ 180 °C
Specific optical rotation.... -0.15 ÷ +0.15 °
Halogenated compounds .....≤100 ppm
Non volat.substances .....≤500 ppm
Origin (BSE/TSE)..... Synthesis
Residual solvents (Current ICH).....Conform

Code	Size	Packaging	Notes
332406	500 g	Plastic bottle	
332402	25 kg	Fibre drum	

Canada balsam

Balsamo del Canada • Baume du Canada • Balsamo del Canada

CAS: 8007-47-4
EEC-N: 232-362-2

Warning
H226
P210-P241-P243-P280a-P303+P361+P353-P403+P235

Canada balsam > RS - Mounting medium for microscopy

RS

Description .....Pale yellow dense liquid
Identification ..... Positive

Code	Size	Packaging	Notes
321553	100 g	Glass bottle	
321554	250 g	Glass bottle	

n-Caproic acid

Acido n-caproico • Acide n-caproïque • Acido n-caproico

Synonym:
Hexanoic acid

$CH_3(CH_2)_4COOH$
Molecular Weight: 116,16
CAS: 142-62-1
EEC-N: 205-550-7

Classification transport
ONU: 2829
Transport Hazard class: 8
Packing group III

Danger
H314
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

n-Caproic acid > RPE - For analysis

RPE

Description .....Yellow colourless liquid
Identification ..... Positive
Refractive index at 20°C.1.4150 ÷ 1.4180
Assay (GLC) ..... ≥99 %

Code	Size	Packaging	Notes
403473	100 ml	Glass bottle	

Capryl alcohol ▶ Octanol-1

n-Caprylic acid
Acido n-caprilico • Acide n-caprylique • Acido n-caprílico

Synonym:
Octanoic acid

$CH_3(CH_2)_6COOH$
Molecular Weight: 144,21
CAS: 124-07-2
EEC-N: 204-677-5

Classification transport
ONU: 3265
Transport Hazard class: 8
Packing group III

Danger
H314-H412
P264-P273-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

n-Caprylic acid > RE - Pure
RE

Description ..... Yellow clear liquid Identification ..... Positive Refractive index at 20°C. 1.4268 ÷ 1.4288 Assay (GLC) ..... ≥ 98.5 %

Code	Size	Packaging	Notes
403421	250 ml	Glass bottle	

Carbamic acid ammonium salt ▶ Ammonium carbamate

Carbolated Methylene Blue hydroalcoholic solution
Blu metilene fenicato soluzione idroalcolica • Bleu de méthylène phéniqué solution hydroalcoolique • Azul de metileno fenicado solución hidroalcohólica

Classification transport
ONU: 1170
Transport Hazard class: 3
Packing group III

Warning
H226-H315-H319-H341
P210-P241-P264-P303+P361+P353-P305+P351+P338-P403+P235

Carbolated Methylene Blue hydroalcoholic solution > RS - For microscopy
RS

Description ..... Blue clear liquid Identification ..... Positive

Code	Size	Packaging	Notes
428991	100 ml	Bottle	

Dye for bacteriology. Water / ethanol mixture (70:30). Contains phenol

Carbolated Toluidine Blue hydroalcoholic solution
Blu toluidina fenicato soluzione idroalcolica • Bleu de toluidine phéniqué solution hydroalcoolique • Azul de metileno fenicado solución hidroalcohólica

Warning
H315-H319-H341
P264-P280-P305+P351+P338-P308+P313-P332+P313-P337+P313

Carbolated Toluidine Blue hydroalcoholic solution > RS - For microscopy
RS

Description ..... Blue clear liquid Identification ..... Positive

Code	Size	Packaging	Notes
429291	100 ml	Bottle	

Dye for histology. Ethanol - water (10:90). Contains phenol

Carbon ▶ Charcoal activated

Carborundum, granules
Carborundo, granulare • Carborundum, granulés • Carborundo, gránulos

Synonym:
Silicon carbide

CSi
Molecular Weight: 40,1
CAS: 409-21-2
EEC-N: 206-991-8

Warning
H315-H319-H335
P264-P271-P304+P340-P305+P351+P338-P312a-P332+P313

Carborundum, granules > RPE - For analysis
RPE

Description ..... Black granules Loss on ignition ..... ≤0.5 % Heavy metals (Pb) ..... ≤50 ppm HCl solubility ..... ≤0.5 %
Identification ..... Positive Chloride ..... ≤100 ppm Sulphate ..... ≤200 ppm Fe ..... ≤200 ppm

Code	Size	Packaging	Notes
434766	500 g	Plastic bottle	

Carborundum, powder
Carborundo, polvere • Carborundum, poudre • Carborundo, polvo

Synonym:
Silicon carbide

CSi
Molecular Weight: 40,1
CAS: 409-21-2
EEC-N: 206-991-8

Warning
H315-H319-H335
P264-P271-P304+P340-P305+P351+P338-P312a-P332+P313

Carborundum, powder > RPE - For analysis
RPE

Description ..... Black greyish powder
Identification ..... Positive
Loss on ignition ..... ≤0.5 %
HCl solubility ..... ≤1 %
Fe ..... ≤0.5 %

Code	Size	Packaging	Notes
434786	500 g	Plastic bottle	

Carrez reagent potassium salt
Carrez reattivo sale di potassio • Réactif de Carrez sel de potassium • Carrez reactivo sal de potasio

Carrez reagent potassium salt > RS - For agroalimentary analysis
RS

Density at 20°C ..... 1.056 ÷ 1.062

Code	Size	Packaging	Notes
502711	1 l	Glass bottle	

Composition: according to NF V04-233: K4Fe(CN)6 3 H2O 106g water QSP 1 L

Carrez reagent zinc salt
Carrez reattivo sale di zinco • Réactif de Carrez sel de zinc • Carrez reactivo sal de zinc

HEU210

Carrez reagent zinc salt > RS - For agroalimentary analysis
RS

Density at 20°C ..... 1.108 ÷ 1.114
pH at 20°C ..... 4.40 ÷ 4.60

Code	Size	Packaging	Notes
502701	1 l	Glass bottle	

Composition: Zinc acetate dihydrate 219 g, acetic acid 30ml, water qsp 1 L

Casein
Caseina • Caséine • Caseina

CAS: 9000-71-9
EEC-N: 232-555-1

Casein > RS - For microscopy
RS

Description ..... Yellowish powder
Identification ..... Positive
Water ..... ≤ 13 %
Acidi liberi (ac. lattico) ..... ≤ 1 %
Ash ..... ≤ 3 % (s.s.)
Assay (ex nitrogen) ..... ≥ 92 % s.s.

Code	Size	Packaging	Notes
435963	50 g	Plastic bottle	

Castor oil
Olio di ricino • Huile de ricin • Aceite de ricino

CAS: 8001-79-4
EEC-N: 232-293-8

Warning
H319
P305+P351+P338

Castor oil > ERBApharm - According to pharmacopoeia : BP-FU-Ph.Eur.-Ph.Franc.

ERBApharm

Description ..... Slightly yellow, viscous liq.
Appearance ..... Clear at 40°C
Identification ..... Positive
Relative density at 20°C ..... about 0.958
Refractive index at 20° C..... about 1.479
Refractive index at 20°C..... about 1.479
Optical rotation..... +3.5 ÷ +6.0 °
Specific absorbance at 270nm..... ≤ 0.7 AU
Acid value..... ≤ 1.5
Hydroxyl value..... ≥ 160
Peroxide value..... ≤ 10.0
Unsaponifiable matter..... ≤ 0.8 %
Water (K.F.) ..... ≤ 0.3 %
Composition of fatty acids (GC)..... Conform
Ph.Eur.
Palmitic acid ..... ≤ 2.0 %
Stearic acid..... ≤ 2.5 %
Ricinoleic acid..... 85.0 - 92.0 %
Oleic acid and isomers
Linoleic acid..... 2.5 - 7.0 %
Linolenic acid..... ≤ 1.0 %
Eicosenoic acid ..... ≤ 1.0 %
Any other fatty acid ..... ≤ 1.0 %
Origin (BSE/TSE)..... Vegetable
Residual solvents (CPMP/ICH/283/95) ..... Conform
Residual solvents (Current ICH)..... Conform

Code	Size	Packaging	Notes
356351	1 l	Glass bottle	
356352	5 l	Aluminium can	
356353	28 kg	Metal drum	

Cedarwood oil ▶ Oil of cedar wood

Cellulose, powder
Cellulosa, polvere • Cellulose, poudre • Celulosa, polvo

Synonym:
α-Cellulose
Cotton linters

CAS: 9004-34-6
EEC-N: 232-674-9

Cellulose, powder > RS - For chromatography

RS

Description ..... Yellowish powder
Identification ..... Positive

Code	Size	Packaging	Notes
436061	250 g	Plastic bottle	

Ceric ammonium nitrate ▶ Cerium (IV) ammonium nitrate

Ceric ammonium sulfate dihydrate ▶ Cerium (IV) ammonium sulfate dihydrate

Cerium standard solution
Cerio standard soluzione • Cérium standard solution • Cerio, solución patrón

Classification transport
ONU: 3264
Transport Hazard class: 8
Packing group III

Cerium standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505552	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505555	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Cerium standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
503501	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503505	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
503503	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503507	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Cerium standard solution > RS - Standard solution for AAS

RS

Code	Size	Packaging	Notes
507531	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
507498	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Cerium (IV) ammonium nitrate

Cerio ammonio nitrato ico • Cérium (IV) ammonium nitrate • Cerio (IV) amonio nitrato

Synonym:
Ceric ammonium nitrate

$(NH_4)_2Ce(NO_3)_6$
Molecular Weight: 548,23
CAS: 16774-21-3
EEC-N: 240-827-6

Classification transport
ONU: 1477
Transport Hazard class: 5.1
Packing group II

Danger
H272-H318
P221-P210a-P280a-P220-P305+P351+P338-P370+P378a

Cerium (IV) ammonium nitrate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description ..... Orange crystalline powder
Identification ..... Positive
H2SO4-insoluble matter .....≤ 500 ppm
Chloride.....≤ 50 ppm
Phosphate .....≤ 200 ppm
Ca.....≤ 50 ppm
Assay (oxidimetric) ..... ≥ 98.5 %
Fe .....≤ 50 ppm
K.....≤ 100 ppm
Na.....≤ 100 ppm
Pb.....≤ 50 ppm

Code	Size	Packaging	Notes
436081	50 g	Glass bottle	
436082	500 g	Glass bottle	

Cerium (IV) ammonium nitrate 0.1 mol/l

Cerio ammonio nitrato ico 0.1 mol/l • Cérium (IV) ammonium nitrate 0.1 mol/l • Cerio (IV) amonio nitrato 0.1 mol/l

$Ce(NH_4)_2(NO_3)_6$
Molecular Weight: 548,22
CAS: 16774-21-3

Classification transport
ONU: 3093
Transport Hazard class: 8
Packing group II

Danger
H272-H314-H318
P210-P221-P264-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Cerium (IV) ammonium nitrate 0.1 mol/l > RS - For analysis according to Ph. Eur. Chap. 4.2.2

RS

Code	Size	Packaging	Notes
613000100	1 l	Glass bottle	Ref Ph.Eur 3000100

Storage: protected from light

Cerium (IV) ammonium nitrate 0.01 mol/l

Cerio ammonio nitrato ico 0.01 mol/l • Cérium (IV) ammonium nitrate 0.01 mol/l • Cerio (IV) amonio nitrato 0.01 mol/l

$Ce(NH_4)_2(NO_3)_6$
Molecular Weight: 548,22
CAS: 16774-21-3

Cerium (IV) ammonium nitrate 0.01 mol/l > RS - For analysis according to Ph. Eur. Chap. 4.2.2

RS

Code	Size	Packaging	Notes
613000200	1 l	Plastic bottle	Ref Ph.Eur 3000200

Storage: protected from light

Cerium (IV) ammonium sulfate dihydrate

Cerio ammonio solfato ico diidrato • Cérium (IV) ammonium sulfate dihydraté • Cerio (IV) amonio sulfato dihidrato

Synonym:
Ceric ammonium sulfate

$Ce(NH_4)_4(SO_4)_4.2H_2O$
Molecular Weight: 632,54
CAS: 10378-47-9

Warning
H315-H319-H335
P264-P271-P280-P304+P340-P305+P351+P338-P312a

Cerium (IV) ammonium sulfate dihydrate > RPE - For analysis - ACS

RPE

Description ..... Yellow-orange powder
Identification ..... Positive
Insoluble in diluted sulphuric acid ..... ≤ 0.05 %
Phosphate ..... ≤ 0.03 %
Fe ..... ≤ 100 ppm
Assay (oxidimetric) ..... ≥ 94 %

Code	Size	Packaging	Notes
436091	100 g	Glass bottle	
436092	500 g	Glass bottle	

Cerium (IV) ammonium sulfate 0.1 mol/l

Cerio ammonio solfato ico 0.1 mol/l • Cérium (IV) ammonium sulfate 0.1 mol/l • Cerio (IV) amonio sulfato 0.1 mol/l

$Ce(NH_4)_4(SO_4)_4 \cdot 2H_2O$
Molecular Weight: 632,54
CAS: 10378-47-9

Classification transport
ONU: 2796
Transport Hazard class: 8
Packing group II

Danger
H314-H318
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Cerium (IV) ammonium sulfate 0.1 mol/l > RS - For analysis according to Ph. Eur. Chap. 4.2.2

RS

Code	Size	Packaging	Notes
613000300	1 l	Plastic bottle	Ref Ph.Eur 3000300

Cerium (IV) ammonium sulfate 0.01 mol/l

Cerio ammonio solfato ico 0.01 mol/l • Cérium (IV) ammonium sulfate 0.01 mol/l • Cerio (IV) amonio sulfato 0.01 mol/l

$Ce(NH_4)_4(SO_4)_4 \cdot 2H_2O$
Molecular Weight: 632,54
CAS: 10378-47-9

Cerium (IV) ammonium sulfate 0.01 mol/l > RS - For analysis according to Ph. Eur. Chap. 4.2.2

RS

Code	Size	Packaging	Notes
613000400	1 l	Plastic bottle	Ref Ph.Eur 3000400

Cerium (III) nitrate hexahydrate

Cerio nitrato oso esaidrato • Cérium (III) nitrate hexahydraté • Cerio (III) nitrato hexahidratado

Synonym:
Cerium trinitrate
Nitric acid cerium salt

$Ce(NO_3)_3.6H_2O$
Molecular Weight: 434,25
CAS: 10294-41-4
EEC-N: 233-297-2

Classification transport
ONU: 1477
Transport Hazard class: 5.1
Packing group III

Danger
H272
P210-P221-P280-P220-P370+P378a-P501a

Cerium (III) nitrate hexahydrate > RE - Pure

RE

Description ..... Colourless crystals
Identification ..... Positive
Sulphate ..... ≤ 200 ppm
Fe2O3 ..... ≤ 15 ppm
Na2O ..... ≤ 50 ppm
CaO ..... ≤ 50 ppm
Assay ..... ≥ 99.4 %

Code	Size	Packaging	Notes
436203	50 g	Glass bottle	

Cerium (IV) sulfate

Cerio solfato ico • Cérium (IV) sulfate • Cerio (IV) sulfato

Synonym:
Ceric sulfate tetrahydrate

$Ce(SO_4)_2 \cdot 4H_2O$
Molecular Weight: 404,3
CAS: 10294-42-5
EEC-N: 237-029-5

Warning
H315-H319-H335
P264-P271-P280-P304+P340-P305+P351+P338-P312a

Cerium (IV) sulfate > RE - Pure

RE

Description ..... Yellow powder
Identification ..... Positive
Chloride ..... ≤200 ppm
Heavy metals (Pb) ..... ≤50 ppm
Fe ..... ≤500 ppm
Assay (oxidimetric) ..... ≥98 % s.s.

Code	Size	Packaging	Notes
436402	25 g	Glass bottle	
436404	100 g	Glass bottle	

Cerium (IV) sulfate 0.1 mol/l

Cerio solfato ico 0.1 mol/l • Cérium (IV) sulfate 0.1 mol/l • Cerio (IV) sulfato 0.1 mol/l

Synonym:
Ceric ammonium nitrate

$Ce(SO_4)_2 \cdot 4H_2O$
Molecular Weight: 404,3
CAS: 10294-42-5

Classification transport
ONU: 2796
Transport Hazard class: 8
Packing group II

Danger
H314-H318
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Cerium (IV) sulfate 0.1 mol/l > RS - For analysis according to Ph. Eur. Chap. 4.2.2

RS

Code	Size	Packaging	Notes
613000301	250 ml	Plastic bottle	Ref Ph.Eur 3000300
613001101	500 ml	Plastic bottle	Ref Ph.Eur 3001100
613001100	1 l	Plastic bottle	Ref Ph.Eur 3001100

Cerium (IV) sulfate 0.1 mol/l > RPE - For analysis

RPE

Code	Size	Packaging	Notes
436426	500 ml	Glass bottle	

33,2 g of Ce(SO4)2. Volumetric solution ready-to-use: 0,1 N. Content is guaranteed for standardized volumes at 20 °C

Cesium standard solution

Cesio standard soluzione • Césium standard solution • Cesio, solución patrón

Classification transport
ONU: 3264
Transport Hazard class: 8
Packing group III

Cesium standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505572	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505575	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Cesium standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
503531	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503535	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
503533	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503537	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Cesium standard solution > RS - Standard solution for AAS

RS

Code	Size	Packaging	Notes
507532	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
507499	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Cesium chloride

Cesio cloruro • Césium chlorure • Cesio cloruro

CsCl
Molecular Weight: 168,36
CAS: 7647-17-8
EEC-N: 231-600-2

Warning
H312
P280-P312a-P363-P302+P352a-P322-P501a

Cesium chloride > RPE - For analysis

RPE

Description ..... White crystalline powder
Identification ..... Positive
Sulphate ..... ≤ 25 ppm
SiO2 ..... ≤ 2 ppm
Al ..... ≤ 1 ppm
Ba ..... ≤ 10 ppm
Ca ..... ≤ 10 ppm
Cr ..... ≤ 2 ppm
Fe ..... ≤ 5 ppm
Li ..... ≤ 1 ppm
K ..... ≤ 30 ppm
Mg ..... ≤ 5 ppm
Na ..... ≤ 50 ppm
Mn ..... ≤ 5 ppm
Pb ..... ≤ 5 ppm
Rb ..... ≤ 50 ppm
Sr ..... ≤ 10 ppm
Assay (argentimetric) ..... ≥ 99 %

Code	Size	Packaging	Notes
436502	25 g	Glass bottle	
436501	50 g	Glass bottle	

Cesium chloride 25 g/l solution

Cesio cloruro 25 g/L soluzione • Césium chlorure 25 g/l • Cesio cloruro solución 25 g/l

CsCl
Molecular Weight: 168,36
CAS: 7647-17-8

HEU210

Cesium chloride 25 g/l solution > RS - Ionisation standard solution for AAS

RS

Code	Size	Packaging	Notes
504536	500 ml	Plastic bottle	25g/l Matrix : Water

Cesium sulfate

Cesio solfato • Césium sulfate • Cesio sulfato

Cs_2SO_4
Molecular Weight: 361,87
CAS: 10294-54-9
EEC-N: 233-662-6

Cesium sulfate > RPE - For analysis

RPE

Description ..... White crystalline powder
Identification ..... Positive
Total nitrogen ..... ≤30 ppm
Chloride ..... ≤40 ppm
Water-insoluble matter ..... ≤50 ppm
Heavy metals (Pb) ..... ≤20 ppm
Al ..... ≤5 ppm
Ca ..... ≤100 ppm
Cu ..... ≤5 ppm
Fe ..... ≤3 ppm
K ..... ≤500 ppm
Mg ..... ≤5 ppm
Na ..... ≤200 ppm
Ni ..... ≤5 ppm
Pb ..... ≤5 ppm
Zn ..... ≤50 ppm
Assay (acidimetric) ..... ≥99 %

Code	Size	Packaging	Notes
436534	25 g	Glass bottle	

Cetyl alcohol
Alcole cetilico • Alcool cétylique • Alcohol cetílico

Synonym:
1-Hexadecanol

$CH_3(CH_2)_{14}CH_2OH$
Molecular Weight: 242,44
CAS: 36653-82-4
EEC-N: 253-149-0

Warning
H315
P264-P280-P332+P313-P362-P302+P352a-P321

Cetyl alcohol > RPE - For analysis
RPE

Description ..... Polvere cristallina bianca o incolore
Identification ..... Positive
Residue on ignition ..... ≤0.1 %
Melting point ..... 47 ÷ 50 °C
Assay (GLC) ..... ≥95.0% %

Code	Size	Packaging	Notes
414427	1 kg	Plastic bottle	

Cetyl alcohol > ERBApharm - According to pharmacopoeia : NF-Ph.Eur.-Ph.Franc.
ERBApharm

Description ..... White powder and flakes
Identification ..... Positive
Appearance of solution ..... Conform Ph.Eur.
Melting point ..... 46 ÷ 52 °C
Acid value ..... ≤ 1.0
Iodine value ..... ≤ 2.0
Hydroxyl value ..... 218 ÷ 238
Saponification value ..... ≤ 2.0
Assay (GLC) ..... ≥ 95 %

Code	Size	Packaging	Notes
308357	1 kg	Plastic bottle	
308358	5 kg	Plastic jar	
308359	25 kg	Plastic bucket	

Charcoal activated
Carbone attivo • Charbon actif • Carbón activado

Synonym:
Carbon

C
Molecular Weight: 12,01
CAS: 7440-44-0

Classification transport
ONU: 1362
Transport Hazard class: 4.2
Packing group III

P261-P420-P402+P404-P501a

Charcoal activated > RS - For chromatography
RS

Description ..... Black powder
Identification ..... Positive
Loss on drying ..... ≤ 10 %

Code	Size	Packaging	Notes
434455	250 g	Bottle	
434454	1 kg	Bottle	

Charcoal activated > RS - For microanalysis
RS

Description ..... Black fine powder
Identification ..... Positive

Code	Size	Packaging	Notes
434462	50 g	Glass bottle	

Charcoal decolorizing
Carbone decolorante • Charbon décolorant • Carbón decolorante

Synonym:
Carbon

C
Molecular Weight: 12,01
CAS: 7440-44-0
EEC-N: 231-153-3

Classification transport
ONU: 1362
Transport Hazard class: 4.2
Packing group III

Warning
H252
P280a-P235+P410-P420-P407-P413a

Charcoal decolorizing > RPE - For analysis
RPE

Description ..... Black fine powder
Identification ..... Positive
pH ..... 10 - 11
Loss on drying ..... ≤ 10 %
Ash ..... ≤ 7 %

Code	Size	Packaging	Notes
434507	1 kg	Bottle	
434501	20 kg	Fibre drum	

Charcoal vegetable

Carbone vegetale • Charbon végétal • Carbón vegetal

Synonym:
Carbon

C
Molecular Weight: 12,01
CAS: 7440-44-0
EEC-N: 231-153-3

Classification transport
ONU: 1361
Transport Hazard class: 4.2
Packing group II

Danger
H251
P280-P235+P410-P420-P407

Charcoal vegetable > RE - Pure

RE

Description ..... Black fine powder Identification ..... Positive

Code	Size	Packaging	Notes
332658	2.5 kg	Bottle	
332659	5 kg	Plastic jar	

Chloral hydrate

Cloralio idrato • Chloral hydraté • Cloral hidrato

$Cl_3CCH(OH)_2$
Molecular Weight: 165,4
CAS: 302-17-0

Classification transport
ONU: 2810

Chloral hydrate > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611017901	100 ml	Plastic bottle	Ref Ph.Eur 1017901

Chloramine T sodium salt

Cloramina T sale sodico • Chloramine T sel sodique • Cloramina T sódica

Synonym:
N-Chloro-p-toluenesulfonamide sodium salt

$CH_3C_6H_4SO_2NClNa.3H_2O$
Molecular Weight: 227,65
CAS: 7080-50-4
EEC-N: 204-854-7

Classification transport
ONU: 2923
Transport Hazard class: 8
Packing group II

Danger
H302-H314-H334-HEU031
P264-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338-P342+P311a

Chloramine T sodium salt > RPE - For analysis

RPE

Description .....White crystalline powder pH solution 5% ..... 8.0 ÷ 10.3 Torbidità (0.5% in acqua) .....≤ 5 FTU
Identification ..... Positive Colore soluzione 5%..... ≤ 25 APHA Assay (iodometric) .....≥ 97.5 %

Code	Size	Packaging	Notes
437555	25 g	Glass bottle	
437554	100 g	Plastic bottle	
437557	1 kg	Plastic bottle	
437551	25 kg	Fibre drum	

For determination of: Co, Cr, Fe, Hg, Mn, Ni, Sb

Chloranil

Cloranile • Chloranile • Cloranilo

Synonym:
Tetrachloro-1,4-benzoquinone
Tetrachloro-p-benzoquinone

COCCl:CClCOCCl:CCl
Molecular Weight: 245,89
CAS: 118-75-2
EEC-N: 204-274-4

Classification transport
ONU: 3077
Transport Hazard class: 9
Packing group III

Warning
H315-H319-H410
P264-P273-P280g-P305+P351+P338-P332+P313-P337+P313

Chloranil > RPE - For analysis

RPE

Description .....Pv giallo bruna - verdastra Melting point..... 290 ÷ 295 ° C Assay (GLC) .....≥ 99.0 %
Identification ..... Positive Residue on ignition.....≤ 0.1 %

Code	Size	Packaging	Notes
437601	50 g	Glass bottle	

Reagent for the dehydrogenation of hydroaromatic compounds

Chloranilic acid
Acido cloranilico • Acide chloranilique • Acido cloranílico

Synonym:
2,5-Dichloro-3,6-dihydroxy-2,5-cyclohexadiene -1,4-dione

$C_6H_2Cl_2O_4$
Molecular Weight: 208,99
CAS: 87-88-7
EEC-N: 201-780-7

Warning
H315-H319-H335
P264-P271-P280-P304+P340-P305+P351+P338-P312a

Chloranilic acid > RPE - For analysis
RPE

Description .....Red brick powder
Identification ..... Positive
Loss on drying ..... ≤1 %
Chloride.....≤50 ppm
Heavy metals (Pb).....≤20 ppm
Residue on ignition..... ≤0.1 %
Assay (argentimetric)..... ≥99 %

Code	Size	Packaging	Notes
403821	10 g	Glass bottle	
403822	100 g	Glass bottle	

Chlorate standard solution
Clorati standard soluzione • Chlorate standard solution • Clorato, solución patrón

Chlorate standard solution > RS - Standard solution for ion chromatography
RS

Code	Size	Packaging	Notes
503181	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503183	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Chloride standard solution
Cloruri standard soluzione • Chlorure standard solution • Cloruro, solución patrón

Chloride standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2
RS

Code	Size	Packaging	Notes
615000901	100 ml	Plastic bottle	A 5 ppm solution : to dilute according to Ref Ph.Eur 5000901
615000909	100 ml	Plastic bottle	A 8 ppm solution : to dilute according to Ref Ph.Eur 5000900
615004100	100 ml	Plastic bottle	A 50 ppm solution : to dilute according to Ref Ph.Eur 5004100

Chloride standard solution > RS - Standard solution for ion chromatography
RS

Code	Size	Packaging	Notes
503231	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503233	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Chlorite standard solution
Cloriti standard soluzione • Chlorite standard solution • Clorita, solución patrón

Classification transport
ONU: 1760
Transport Hazard class: 8
Packing group III

Chlorite standard solution > RS - Standard solution for ion chromatography
RS

Code	Size	Packaging	Notes
503191	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503193	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Chloroacetamide
2-Cloroacetammide • Chloroacétamide • Cloroacetamida

$CH_2ClCONH_2$
Molecular Weight: 93,51
CAS: 79-07-2
EEC-N: 201-174-2

Classification transport
ONU: 2811
Transport Hazard class: 6.1
Packing group III

Danger
H301-H317-H361f
P264-P261-P280g-P301+P310a-P308+P313-P330

Chloroacetamide > RPE - For analysis — RPE

Description ..... White crystalline powder
Identification ..... Positive
Melting point ..... 116 ÷ 120 ° C
Water ..... ≤ 0.2 %
Assay (GLC) ..... ≥ 97.5 %

Code	Size	Packaging	Notes
437704	100 g	Glass bottle	

Chloroacetic acid
Acido cloroacetico • Acide chloroacétique • Acido cloroacetico

Synonym:
Monochloroacetic acid

$CH_2ClCOOH$
Molecular Weight: 94,5
CAS: 79-11-8
EEC-N: 201-178-4

Classification transport
ONU: 1751
Transport Hazard class: 6.1
Packing group II

Danger
H301-H311-H331-H314-H400
P264-P273-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Chloroacetic acid > RPE - For analysis - Reag. Ph. Eur. — RPE

Description ..... White flakes
Identification ..... Positive
Melting point ..... 61 ÷ 63 °C
Assay (acidimetric) ..... ≥98.5 %

Code	Size	Packaging	Notes
404308	500 g	Plastic bottle	

Chlorobenzene
Clorobenzene • Chlorobenzène • Clorobenceno

C_6H_5Cl
Molecular Weight: 112,56
CAS: 108-90-7
EEC-N: 203-628-5

Classification transport
ONU: 1134
Transport Hazard class: 3
Packing group III

Warning
H226-H332-H411
P210-P241-P273-P303+P361+P353-P304+P340-P403+P235

Chlorobenzene > RPE - For analysis — RPE

Description ..... Clear colourless liquid
Identification ..... Positive
Alcohol miscibility ..... Complete
Diethyl ether miscib. ..... Complete
Density at 20° C ..... 1.103 ÷ 1.109
Refractive index at 20°C. 1.5198 ÷ 1.5298
Boiling point ..... 131 ÷ 133 °C
Water (K.F.) ..... ≤200 ppm
Residue on evaporation ..... ≤30 ppm
Acidity (HCl) ..... ≤3 ppm
Benzene ..... ≤200 ppm
p- Dichlorobenzene ..... ≤0.02 %
o- Dichlorobenzene ..... ≤0.01 %
Free chlorine ..... ≤0.1 ppm
Assay (GLC) ..... ≥99.9 %

Code	Size	Packaging	Notes
438251	1 l	Glass bottle	
438255	2.5 l	Glass bottle	
438253	25 kg	Drum	
438256	200 l	Metal drum	

Chlorobenzene > RE - Pure — RE

Description ..... Yellow clear liquid
Identification ..... Positive
Titrable base ..... Conform
Density at 20° C ..... 1.103 ÷ 1.109
Refractive index at 20°C. 1.5198 ÷ 1.5298
Boiling point ..... 131.5 ÷ 132.5 °C
Free acid (HCl) ..... ≤10 ppm
Benzene ..... ≤200 ppm
Water (K.F.) ..... ≤500 ppm
Residue on evaporation ..... ≤50 ppm
Assay (GLC) ..... ≥99.9 %

Code	Size	Packaging	Notes
334251	1 l	Glass bottle	
334255	2.5 l	Glass bottle	
334254	30 kg	Metal drum	

1-Chlorobutane ▶ n-Butyl chloride

Chlorobutanol

Clorobutanolo • Chlorobutanol • Clorobutanol

Synonym:
β,β,β-Trichloro-t-butanol

$(CH_3)_2COH(CCl_3).1/2H_2O$
Molecular Weight: 186,46
CAS: 6001-64-5
EEC-N: 200-317-6

Warning
H302-H312-H332-H315-H319
P264-P271-P304+P340-P305+P351+P338-P330-P332+P313

Chlorobutanol > ERBApharm - According to pharmacopoeia : BP-FU-NF-Ph.Eur.-Ph.Franc.

ERBApharm

Description ... Colourless crystalline powder
Identification ... Positive
Appearance of solution ... Conform Ph.Eur.
Acidity ... Conform Ph.Eur.
Reaction ... Conform USP-NF
Residue solvents ... Conform USP-NF
Water (K.F.) ... 4.5 ÷ 5.5 %
Sulphated ash ... ≤0.1 %
Chloride ... ≤100 ppm
Assay (argentimetric) .. 98.0 ÷ 100.5 % s.s.
Origin (BSE/TSE) ... Synthesis
Residual solvents (Current ICH) ... Conform

Code	Size	Packaging	Notes
301357	1 kg	Plastic bottle	
301356	5 kg	Plastic jar	

1-Chloro-2,4-dinitrobenzene ▶ 2,4-Dinitrochlorobenzene

2-Chloroethanol solution

2-Cloroetanolo soluzione • 2-Chloroéthanol solution • 2-Cloroetanol solución

Synonym:
Ethylene chlorohydrin

C_2H_5ClO
Molecular Weight: 80.51
CAS: 107-07-3

Classification transport
ONU: 1935
Transport Hazard class: 6.1
Packing group I

Warning
H319-H336
P264-P271-P280-P304+P340-P305+P351+P338-P312a

2-Chloroethanol solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611097501	100 ml	Glass bottle	Ref Ph.Eur 1097501

2-Chloroethylamine hydrochloride

2-Cloroetilammina cloridrato • 2-Chloroéthylamine chlorhydrate • 2-Cloroetilamonio clorhidrato

Synonym:
2-Aminoethyl chloride hydrochloride

$ClCH_2CH_2NH_2.HCl$
Molecular Weight: 115,99
CAS: 870-24-6
EEC-N: 212-793-2

2-Chloroethylamine hydrochloride > RE - Pure

RE

Description ... Cristallini biancastri
Identification ... Positive
Assay (argentimetric) ... ≥ 97 %

Code	Size	Packaging	Notes
438371	100 g	Plastic bottle	

Chloroform

Cloroformio • Chloroforme • Cloroformo

Synonym:
Methylidine trichloride
Trichloromethane

$CHCl_3$
Molecular Weight: 119,38
CAS: 67-66-3
EEC-N: 200-663-8

Classification transport
ONU: 1888
Transport Hazard class: 6.1
Packing group III

Danger
H302-H331-H315-H319-H351-H361d-H372
P264-P271-P304+P340-P305+P351+P338-P308+P313-P314

Chloroform > RS - For HPLC - Isocratic grade - Stabilized with amylene

RS

Description ... Clear colourless liquid
Identification (I.R.) ... Positive
Density at 20°C ... 1.479 - 1.483
Refractive index at 20°C .. 1.4456 - 1.4496
Boiling point ... 61.0 - 61.5 °C
Water (K.F.) ... ≤ 100 ppm
Residue on evaporation ... ≤ 5 ppm
Acidity ... ≤ 0.0005 meq/g
Alkalinity ... ≤ 0.0002 meq/g
Assay (CPG) ... ≥ 99.9 %
Transmittance
At 250 nm ... ≥ 50 %
At 260 nm ... ≥ 90 %
At 275 nm ... ≥ 98 %
Carbon tetrachloride ... ≤ 100 ppm
Methylene chlorure ... ≤ 50 ppm
Stabilized with amylene ... ≤ 60 ppm

Code	Size	Packaging	Notes
412571	1 l	Glass bottle	
412572	2.5 l	Glass bottle	

Chloroform > RS - For HPLC - Isocratic grade - Stabilized with ethanol

RS

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 20° C ..... 1.479 ÷ 1.483
Refractive index at 20°C ..... 1.444 ÷ 1.448
Boiling point ..... 61.0 ÷ 61.5 ° C
Water (K.F.) ..... ≤ 100 ppm
Residue on evaporation ..... ≤5 ppm
Acidity ..... ≤0.0005 meq/g
Alcalinity ..... ≤0.0002 meq/g
Assay (GLC) ..... ≥99.9 %
U.V. Transmittance
at 250 nm ..... ≥50 %
at 260 nm ..... ≥90 %
at 275 nm ..... ≥98 %
Carbon tetrachloride ..... ≤ 100 ppm ppm
Methylene chlorure ..... ≤ 50 ppm

Code	Size	Packaging	Notes
412652	1 l	Glass bottle	
412653	2.5 l	Glass bottle	

Chloroform > RS - For preparative HPLC - Stabilized with ethanol

RS

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 20° C ..... 1.479 ÷ 1.483
Refractive index at 20°C . 1.4456 ÷ 1.4496
Boiling point ..... 61.0 ÷ 61.5 ° C
Water (K.F.) ..... ≤500 ppm
Residue on evaporation ..... ≤5 ppm
Alcalinity ..... ≤0.0002 meq/g
Assay (GLC) ..... ≥99.0 %
U.V. Transmittance
at 250 nm ..... ≥50 %
at 275 nm ..... ≥98 %
Stabilized with ethyl alcohol .... 0.6 ÷ 1.0 %

Code	Size	Packaging	Notes
438641	2.5 l	Glass bottle	

Chloroform > RS - ATRASOL - For analysis of volatile traces - Stabilized with ethanol

RS

Refractive index at 20°C ..... 1.444 - 1.448
Water content (K.F.) ..... ≤ 100 mg/Kg
Colour ..... ≤ 10 Hazen
Stabilizer (Ethanol) ..... 0.4 - 1 % m/m
Dichloromethane ..... ≤ 100 mg/Kg
Non volatile residue ..... ≤ 3 mg/Kg
GC (FID) - NC Atrasol ..... Conform
Carbon tetrachloride ..... ≤ 100 mg/Kg
Assay (GC) (without stabilizer) ... ≥ 99.95 %
Free acid (as HCl) ..... ≤ 5 mg/Kg
GC-ECD.Individual peak (Lindane) .. ≤ 2 ng/l
Retention time trichlorobenzene to mirex
GC-FID.Individ. peak (hexadecane) .≤ 5 µg/l
Retention time range over toluène

Code	Size	Packaging	Notes
P02432E16	1 l	Glass bottle	
P02432E21	2.5 l	Glass bottle	

Chloroform > RS - PESTIPUR - For pesticide analysis - Stabilized with amylene

RS

Refractive index at 20°C ..... 1.444 - 1.448
Water content (K.F.) ..... ≤ 100 mg/Kg
Colour ..... ≤ 10 Hazen
Stabilizer (Amylene) ..... 10 - 50 mg/Kg
Free acid (as HCl) ..... ≤ 5 mg/Kg
Non volatile residue ..... ≤ 5 mg/Kg
Assay (GC) ..... ≥ 99.9 %
GC-ECD.Individual peak (Lindane) .. ≤ 3 ng/l
Retention time trichlorobenzene to mirex
GC-NPD.Individual peak (Ethylparathion) ≤ 3 ng/l
Retention time Atrazin to Coumaphos

Code	Size	Packaging	Notes
438681	1 l	Glass bottle	
438682	2.5 l	Glass bottle	

Chloroform > RS - PESTIPUR - For pesticide analysis - Stabilized with ethanol

RS

Description ..... Clear liquid
Colour ..... ≤ 10 hazen
Identification ..... Positive
Water ..... ≤ 0.01 %
Acidity (HCl) ..... ≤ 5 ppm
Not volatile residue ..... ≤ 5 ppm
GC-ECD (Lindano) ..... ≤ 3 ng/l
GC-NPD (Ethylparation) ..... ≤ 3 ng/l
Assay (GLC) ..... ≥ 99.9 %

Code	Size	Packaging	Notes
438651	1 l	Glass bottle	
438652	2.5 l	Glass bottle	

Chloroform > RS - SPECTROSOL - For optical spectroscopy - Stabilized with amylene

RS

Clear,colourless liq.appearance ..... Conform
Identification ..... Conform
Colour ..... ≤ 10 Apha
Refractive index at 20°C ..... 1.444 - 1.448
Water content (K.F.) ..... ≤ 100 mg/Kg
Free acid (as HCl) ..... ≤ 5 mg/Kg
Non volatile residue ..... ≤ 5 mg/Kg
Stabilizer (Amylene) ..... 10 - 50 mg/Kg
Carbon tetrachloride ..... ≤ 100 mg/Kg
Dichloromethane ..... ≤ 100 mg/Kg
UV transmittance at 250 nm ..... ≥ 50 %
UV transmittance at 260 nm ..... ≥ 85 %
UV transmittance at 280 nm ..... ≥ 95 %
Assay (GC) ..... ≥ 99.9 %

Code	Size	Packaging	Notes
438591	1 l	Glass bottle	
438592	2.5 l	Glass bottle	

Chloroform > RS - SPECTROSOL - For optical spectroscopy - Stabilized with ethanol

RS

Description ..... Clear liquid
Colour (APHA) ..... ≤10
Identification ..... Positive
Density at 20° C ..... 1.479 ÷ 1.483
Refractive index at 20°C . 1.4461 ÷ 1.4491
Boiling point ..... 61.0 ÷ 61.5 ° C

Water (K.F.) ..... ≤100 ppm
Residue on evaporation ..... ≤5 ppm
Acidity (HCl) ..... ≤0.0005 meq/g
Alcalinity ..... ≤0.0002 meq/g
Assay (GLC) ..... ≥99.9 %

Fluorescence
at 254 nm ..... ≤2 ppb
at 365 nm ..... ≤2 ppb
U.V. Transmittance
at 245 nm ..... ≥15 %
at 250 nm ..... ≥50 %
at 260 nm ..... ≥90 %
at 275 nm ..... ≥98 %
Stabilized with ethyl alcohol .... 0.6 ÷ 1.0 %
Carbon tetrachloride ..... ≤ 100 ppm

Code	Size	Packaging	Notes
438664	1 l	Glass bottle	
438662	2.5 l	Glass bottle	

Chloroform > RS - Anhydrous - For analysis - Stabilized with amylene

RS

Refractive index at 20°C ..... 1.444 - 1.448
Water content (K.F.) ..... ≤ 50 mg/Kg
Non volatile residue ..... ≤ 10 mg/Kg

Colour ..... ≤ 10 Hazen
Free acid (as HCl) ..... ≤ 5 mg/Kg
Assay (GC) ..... ≥ 99.95 %

Stabilizer (Amylene) ..... 10 - 50 mg/Kg
Carbon tetrachloride ..... ≤ 80 mg/Kg
Dichloromethane ..... ≤ 50 mg/Kg
1,2-dichloroethane ..... ≤ 10 mg/Kg

Code	Size	Packaging	Notes
P02410A10	200 ml	Bottle with septum	
P02410A16	1 l	Glass bottle	
P02410A21	2.5 l	Glass bottle	
P02410AT21	2.5 l	Glass bottle	On molecular sieves

Chloroform > RS - Anhydrous - For analysis - Stabilized with ethanol

RS

Refractive index at 20°C ..... 1.444 - 1.448
Water content (K.F.) ..... ≤ 50 mg/Kg
Non volatile residue ..... ≤ 10 mg/Kg

Colour ..... ≤ 10 Hazen
Assay (GC) (without stabilizer) ... ≥ 99.95 %
Stabilizer (Ethanol) ..... 0.6 - 1 % m/m

Free acid (as HCl) ..... ≤ 5 mg/Kg
Carbon tetrachloride ..... ≤ 80 mg/Kg
Dichloromethane ..... ≤ 100 mg/Kg
1,2-dichloroethane ..... ≤ 10 mg/Kg

Code	Size	Packaging	Notes
P02410E10	200 ml	Bottle with septum	
P02410E16	1 l	Glass bottle	
P02410E21	2.5 l	Glass bottle	

Chloroform > RPE - For analysis - ISO - ACS - Reag.Ph.Eur. - Reag.USP - Stabilized ethanol

RPE

Description ..... Clear liquid
Colour (APHA) ..... ≤10
Identification (I.R.) ..... Conform
Phosgene ..... Conform
Ready carbonizable substances ..... Conform
Acetone and aldeydes ..... Conform ACS

Acidità e cloruri ..... Conform ACS
Suit.for Dithizone col. ..... Conform ACS
Density at 20° C ..... 1.477 ÷ 1.481
Refractive index at 20°C . 1.4461 ÷ 1.4491
Boiling point ..... 60.5 ÷ 61.5 ° C
Water (K.F.) ..... ≤100 ppm

Residue on evaporation ..... ≤5 ppm
Acidity (HCl) ..... ≤5 ppm
Ethyl alcohol ..... 0.6 ÷ 1 %
Chloride ..... ≤0.4 ppm
Free chlorine ..... ≤0.1 ppm
Carbonyl Compounds (CO) ..... ≤5 ppm

Cu ..... ≤0.01 ppm
Fe ..... ≤0.1 ppm
Pb ..... ≤0.01 ppm
Zn ..... ≤0.05 ppm
Assay (GLC) ..... ≥99.9 %

Code	Size	Packaging	Notes
438613	1 l	Glass bottle	
438614	2.5 l	Glass bottle	
438612	5 l	Plastic tank	

Chloroform > RPE - For analysis - ISO - Stabilized with ethanol

RPE

Description ..... Clear liquid
Colour (APHA) ..... ≤10
Identification (I.R.) ..... Conform
Free chlorine ..... Conform
Phosgene ..... Conform
Ready carbonizable substances ..... Conform

Alcohol miscibility ..... Complete
Benzene miscibility ..... Complete
Diethyl ether miscib. ..... Complete
Density at 20° C ..... 1.479 ÷ 1.483
Refractive index at 20°C . 1.4461 ÷ 1.4491
Boiling point ..... 61.0 ÷ 61.5 ° C

Water (K.F.) ..... ≤300 ppm
Residue on evaporation ..... ≤5 ppm
Acidity (HCl) ..... ≤5 ppm
Ethyl alcohol ..... 0.6 ÷ 1 %
Chloride ..... ≤0.4 ppm
Carbonyl Compounds (CO) ..... ≤5 ppm

Cu ..... ≤0.01 ppm
Fe ..... ≤0.1 ppm
Pb ..... ≤0.01 ppm
Zn ..... ≤0.05 ppm
Assay (GLC) ..... ≥99 %

Code	Size	Packaging	Notes
438601	1 l	Glass bottle	
438603	2.5 l	Glass bottle	
438607	35 kg	Aluminium can	
438606	250 kg	Metal drum	

Chloroform > RPE - For analysis - Stabilized with amylene

RPE

Clear,colourless liq.appearance .....Conform
Identification .....Conform
Colour .....≤ 10 Apha
Refractive index at 20°C.....1.444 - 1.448
Water content (K.F.) .....≤ 100 mg/Kg
Free acid (as HCl) .....≤ 5 mg/Kg
Non volatile residue .....≤ 10 mg/Kg
Stabilizer (Amylene) ..... 10 - 50 mg/Kg
Carbon tetrachloride.....≤ 80 mg/Kg
Dichloromethane.....≤ 50 mg/Kg
1,2-dichloroethane.....≤ 10 mg/Kg
Assay (GC) ..... ≥ 99.95 %

Code	Size	Packaging	Notes
438581	1 l	Glass bottle	
438582	2.5 l	Glass bottle	

Chloroform > ERBApharm - According to pharmacopoeia : BP - Stabilized with ethanol

ERBApharm

Description ..... Clear colourless liquid
Identification ..... Positive
Acidity or alkalinity.....Conform BP
Foreign chlorin. comp. .....Conform BP
Free chlorine.....Conform BP
Chloride.....Conform BP
Aldehyde .....Conform BP
Density at 20° C .....1.474 ÷ 1.479
Residue on evaporation ..... ≤40 ppm p/v
Distillation range .....Pass test
Related substances (CPG)
Bromochloromethane .....≤ 0.5 %v/v
Methylene chlorure.....≤ 0.2 %v/v
Carbon tetrachloride.....≤ 0.2 %v/v
Any single impurity.....≤ 0.2 %v/v
Total impurities.....≤ 1.0 %v/v
Ethanol .....1.0 ÷ 2.0 % (v/v)
Origin (BSE/TSE)..... Synthesis

Code	Size	Packaging	Notes
334351	1 l	Glass bottle	
334353	2.5 l	Glass bottle	
334356	25 kg	Metal drum	
334355	40 kg	Metal drum	
529301	200 l	Metal drum	
334354	250 kg	Metal drum	

Chloroform > RE - Pure - Stabilized with amylene

RE

Description ..... Clear colourless liquid
Color .....<10 APHA
Identity (IR).....Positive
Density at 20°C .....1.478 ÷ 1.488
Refractive index at 20°C.1.4461 ÷ 1.4491
Boiling point.....61 ÷ 61.5 °C
Acidity (HCl) ..... <10 ppm
Residue on evaporation .....≤20 ppm
Water (K.F.) .....≤ 300 ppm
Assay (GLC) ..... ≥ 99.9 %
Amylene .....≤ 60 ppm

Code	Size	Packaging	Notes
528326	1 l	Glass bottle	
528328	2.5 l	Glass bottle	
528325	5 l	Plastic tank	
528329	25 l	Metal drum	
528327	200 l	Metal drum	

Chloroform > RE - Pure - Stabilized with ethanol

RE

Description ..... Clear colourless liquid
Color .....≤ 10 APHA
Identity (IR).....Positive
Density at 20°C .....1,478 ÷ 1,488
Refractive index at 20°C.1,4461 ÷ 1,4491
Boiling point.....61,0 ÷ 61,5 °C
Acidity (HCl) .....≤ 50 ppm
Ethyl alcohol .....0,6 ÷ 1 %
Residue on evaporation .....≤ 20 ppm
Water (K.F.) .....≤ 300 ppm
Assay (GLC) ..... ≥ 99.9 %
Stab with 0,8 % ethanol

Code	Size	Packaging	Notes
508320	1 l	Glass bottle	
508321	5 l	Plastic tank	
508322	200 l	Metal drum	

Chloroform-d

Cloroformio-d • Chloroforme-d • Cloroformo-d

Synonym:
Deuterochloroform

$CDCl_3$
Molecular Weight: 120,37
CAS: 865-49-6
EEC-N: 200-663-8

Classification transport
ONU: 1888
Transport Hazard class: 6.1
Packing group III

Danger
H302-H331-H315-H319-H351-H361d-H372
P264-P271-P280-P304+P340-P305+P351+P338-P308+P313

Chloroform-d > RS - For NMR - min 99.8%

RS

Code	Size	Packaging	Notes
P5119	10 x 0.75 ml	Glass ampoule	
P5115	25 ml	Glass bottle	
P5116	100 ml	Glass bottle	
P5117	500 ml	Glass bottle	
P5118	1 l	Glass bottle	

Chloroform-d > RS - For NMR - min 99.8% - Stabilized with 0.12% Ag

RS

Code	Size	Packaging	Notes
P5325	100 ml	Glass bottle	

Chloroform-d > RS - For NMR - min 99.95%

RS

Code	Size	Packaging	Notes
P5130	10 x 0.6 ml	Glass ampoule	
P5139	10 x 0.75 ml	Glass ampoule	
P5135	25 ml	Glass bottle	

Chloroform-d > RS - For NMR - min 99.95% - Stabilized with 0.12% Ag

RS

Code	Size	Packaging	Notes
P5505	100 ml	Glass bottle	

Chloroform-d + 0,03% TMS

Cloroformio-d + 0,03% TMS • Chloroforme-d + 0,03% TMS • Cloroformo-d + 0,03% TMS

Synonym:
Deuterochloroform

$CDCl_3$
Molecular Weight: 120,37
CAS: 865-49-6
EEC-N: 200-663-8

Classification transport
ONU: 1888
Transport Hazard class: 6.1
Packing group III

Danger
H302-H331-H315-H319-H351-H361d-H372
P264-P271-P280-P304+P340-P305+P351+P338-P308+P313

Chloroform-d + 0,03% TMS > RS - For NMR - min 99.8%

RS

Code	Size	Packaging	Notes
P5006	100 ml	Glass bottle	

alpha-Chloronaphthalene

alfa-Cloronaftalene • alpha-Chloronaphtalène • alpha-Cloronaftaleno

$C_{10}H_7Cl$
Molecular Weight: 162,61
CAS: 90-13-1
EEC-N: 201-967-3

Classification transport
ONU: 3082
Transport Hazard class: 9
Packing group III

Warning
H302-H315-H319-H335-H400
P264-P273-P271-P304+P340-P305+P351+P338-P330

alpha-Chloronaphthalene > RPE - For analysis

RPE

Description ..... Yellow clear liquid
Identification ..... Positive
Density at 20° C ..... 1.189 ÷ 1.199
Refractive index at 20°C ..... 1.6302 ÷ 1.6362
Assay (GLC) ..... ≥ 85 %

Code	Size	Packaging	Notes
438755	500 ml	Glass bottle	

2-Chlorophenol

2-Clorofenolo • 2-Chlorophénol • 2-Clorofenol

Synonym:
o-Chlorophenol

ClC_6H_4OH
Molecular Weight: 128.56
CAS: 95-57-8
EEC-N: 202-433-2

Classification transport
ONU: 2021
Transport Hazard class: 6.1
Packing group III

Warning
H302-H312-H332-H411
P264-P273-P271-P261-P304+P340-P330

2-Chlorophenol > RE - Pure

RE

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 20° C ..... 1.259 ÷ 1.265
Refractive index at 20°C ..... 1.5540 ÷ 1.5600
Boiling point ..... 175.0 ÷ 176.0 ° C
Melting point ..... 8.2 ÷ 9.2 ° C
Water (K.F.) ..... ≤0.1 %
Residue on ignition ..... ≤100 ppm
Assay (GLC) ..... 99 ÷ 100 %

Code	Size	Packaging	Notes
438451	1 l	Glass bottle	

4-Chlorophenol
4-Clorofenolo • p-Chlorophénol • p-Clorofenol

ClC_6H_4OH
Molecular Weight: 128,56
CAS: 106-48-9
EEC-N: 203-402-6

Classification transport
ONU: 2020
Transport Hazard class: 6.1
Packing group III

Warning
H302-H312-H332-H411
P264-P273-P271-P261-P304+P340-P330

4-Chlorophenol > RPE - For analysis - Reag. Ph.Eur. — RPE

Description ..... Yellowish crystals Identification ..... Positive Water ..... ≤ 0.3 % Assay (GLC) ..... ≥ 99 %

Code	Size	Packaging	Notes
438504	100 g	Glass bottle	

Chloroplatinic acid hexahydrate ▶ Hexachloroplatinic acid hexahydrate

m-Chlorotoluene
m-Clorotoluene • m-Chlorotoluène • m-Cloro tolueno

Synonym:
3-Chlorotoluene

$ClC_6H_4CH_3$
Molecular Weight: 126,59
CAS: 108-41-8
EEC-N: 203-580-5

Classification transport
ONU: 2238
Transport Hazard class: 3
Packing group III

Warning
H226-H332-H411
P210-P241-P273-P303+P361+P353-P304+P340-P403+P235

m-Chlorotoluene > RPE - For analysis — RPE

Description ..... Clear colourless liquid Density at 20° C ..... 1.067 ÷ 1.077 Boiling point..... 161.5 ÷ 162.5 ° C Acidity (HCl) ..... ≤100 ppm
Identification ..... Positive Refractive index at 20°C . 1.5194 ÷ 1.5234 Residue on evaporation ..... ≤100 ppm Assay (GLC) ..... ≥99 %

Code	Size	Packaging	Notes
439001	25 ml	Glass bottle	

n-Chloro-p-toluenesulfonamide sodium salt ▶ Chloramine T sodium salt

Chromate standard solution
Cromati standard soluzione • Chromate standard solution • Cromato, solución patrón

Danger
H340-H350-H412-HEU203-HEU208-HA26
P273-P280-P201-P202-P308+P313-P405

Chromate standard solution > RS - Standard solution for ion chromatography — RS

Code	Size	Packaging	Notes
503241	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503243	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Chromazurol S
Cromazurol S • Chromazurol S • Cromazurol S

Synonym:
Mordant Blue 29

$C_{23}H_{13}Cl_2Na_3O_9S$
Molecular Weight: 605,29
CAS: 1667-99-8
EEC-N: 216-787-0

Warning
H302-H312-H332-H315-H319-H335
P264-P271-P304+P340-P305+P351+P338-P330-P332+P313

Chromazurol S > RPE - For analysis - C.I. 43825 — RPE

Description ..... Dark brown powder Identification ..... Positive

Code	Size	Packaging	Notes
440591	1 g	Glass bottle	

Complexometric indicator. For the determination of Be and Al

Chromic anhydride ▶ Chromium (VI) oxide

Chromium standard solution

Cromo standard soluzione • Chrome standard solution • Cromo, solución patrón

Classification transport
ONU: 3264
Transport Hazard class: 8
Packing group II

Danger
H314
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Chromium standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2 — RS

Code	Size	Packaging	Notes
615001002	100 ml	Plastic bottle	A 0.1 % solution Ref Ph.Eur 5001002
615001000	1 l	Plastic bottle	A 100 ppm solution Ref Ph.Eur 5001000

Chromium standard solution > RS - Standard solution for ICP-MS — RS

Code	Size	Packaging	Notes
505567	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505568	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid
505569	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Chromium standard solution > RS - Standard solution for ICP — RS

Code	Size	Packaging	Notes
503521	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503525	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
503523	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503527	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Chromium standard solution > RS - Standard solution for AAS — RS

Description ..... Green-grey clear liquid Identification ..... Positive Titration factor..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
E497505	100 ml	Glass bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
504195	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
507485	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
E497501	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Chromium standard solution > RS - NORMEX - Concentrated solution for AAS — RS

Description ..... Orange clear liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
440641		Plastic vial	conc. 1.000 ppm Matrix : Hydrochloric acid - Volume : 50 ml

Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package

Chromium (III) chloride hexahydrate

Cromo cloruro ico esaidrato • Chrome (III) chlorure hexahydrate • Cromo (III) cloruro hexahidrato

Synonym:
Chromium trichloride hexahydrate
Hexaaquachromium (III) chloride

$CrCl_3.6H_2O$
Molecular Weight: 266,45
CAS: 10060-12-5
EEC-N: 233-038-3

Warning
H302
P264-P270-P330-P301+P312a-P501a

Chromium (III) chloride hexahydrate > RPE - For analysis

RPE

Description ..... Polvere cristallina verde scuro
Identification ..... Positive
pH solution 5% ..... 2.0 ÷ 3.5
Non precipit. con NH4OH (SO4) ..... ≤ 0.2 %
Ammonium ..... ≤ 100 ppm
Sulphate ..... ≤ 200 ppm
Fe ..... ≤ 100 ppm
Pb ..... ≤ 50 ppm
Assay (oxidimetric) ..... ≥ 95.0 %

Code	Size	Packaging	Notes
440724	100 g	Glass bottle	
440727	1 kg	Plastic bottle	

Chromium (III) chloride hexahydrate > RE - Pure

RE

Description ..... Cristall i verdi
Identification ..... Positive
Subst. not ppt NH4OH ..... ≤0.2 %
Sulphate ..... ≤100 ppm
Fe ..... ≤100 ppm
Pb ..... ≤50 ppm
Assay (oxidimetric) ..... ≥95 %

Code	Size	Packaging	Notes
440742	5 kg	Plastic jar	

Chromium (III) nitrate nonahydrate

Cromo nitrato ico nonaidrato • Chrome (III) nitrate nonahydrate • Cromo (III) nitrato nonahidrato

$Cr(NO_3)_3.9H_2O$
Molecular Weight: 400,15
CAS: 7789-02-8

Classification transport
ONU: 2720
Transport Hazard class: 5.1
Packing group III

Danger
H317-H350i-H410-HA26
P273-P280-P261-P308+P313-P333+P313-P302+P352a

Chromium (III) nitrate nonahydrate > RPE - For analysis

RPE

Description ..... Violet crystals
Identification ..... Positive
pH sol. 5% at 25° C ..... 2.0 ÷ 3.0
Ammonium ..... ≤ 10 ppm
Chloride ..... ≤ 20 ppm
Subst. not ppt NH4OH ..... ≤ 0.2 %
Sulphate ..... ≤ 50 ppm
Ca ..... ≤ 50 ppm
Cd ..... ≤ 10 ppm
Co ..... ≤ 10 ppm
Cu ..... ≤ 10 ppm
Fe ..... ≤ 200 ppm
Mg ..... ≤ 50 ppm
Mn ..... ≤ 10 ppm
Na ..... ≤ 50 ppm
Ni ..... ≤ 50 ppm
Pb ..... ≤ 20 ppm
Zn ..... ≤ 10 ppm
Assay (oxidimetric) ..... ≥ 12.5 % Cr

Code	Size	Packaging	Notes
440775	250 g	Glass bottle	
440776	1 kg	Glass bottle	

Chromium (III) oxide

Cromo sesquiossido • Chrome (III) oxyde • Cromo (III) óxido

Synonym:
Chromia

Cr_2O_3
Molecular Weight: 151,99
CAS: 1308-38-9
EEC-N: 215-160-9

Chromium (III) oxide > RPE - For analysis

RPE

Description ..... Green powder
Identification ..... Positive
Water solubility ..... ≤ 0.2 %
Assay (oxidimetric) ..... ≥ 99 %

Code	Size	Packaging	Notes
440825	250 g	Plastic bottle	
440827	1 kg	Plastic bottle	
440823	25 kg	Plastic bucket	

Chromium (VI) oxide
Anidride cromica • Anhydride chromique • Anhídrido crómico

CrO_3
Molecular Weight: 99.99
CAS: 1333-82-0
EEC-N: 215-607-8

Classification transport
ONU: 1463
Transport Hazard class: 5.1
Packing group II

Danger
H271-H301-H311-H330-H314-H334-H317-H340-H350-H361f-H372-H410-HA26
P221-P264-P273-P283-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338-P342+P311a

Chromium (VI) oxide > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP
RPE

Description ..... Purple crystals
Identification ..... Positive
Water-insoluble matter ..... ≤100 ppm
Chloride ..... ≤50 ppm
Nitrate ..... ≤500 ppm
Sulphate ..... ≤50 ppm
Fe,Al,Ba ..... ≤300 ppm
Na ..... ≤0.2 %
Assay (oxidimetric) ..... ≥98.0 %

Code	Size	Packaging	Notes
421735	250 g	Plastic bottle	
421737	1 kg	Plastic bottle	

Chromium (VI) oxide solution
Anidride cromica soluzione • Anhydride chromique solution • Anhídrido crómico solución

Synonym:
Chromic anhydride

CrO_3
Molecular Weight: 99,99
CAS: 1333-82-0

Classification transport
ONU: 1755
Transport Hazard class: 8
Packing group II

Danger
H271-H301-H312-H330-H314-H318-H334-H317-H340-H350-H361f-H335-H372-H400-H410-HA26
P210-P221-P264-P273-P283-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338-P342+P311a

Chromium (VI) oxide solution > RE - Pure
RE

Description ..... Orange clear liquid
Identification ..... Positive
Chloride ..... ≤500 ppm
Sulphate ..... ≤0.1 %
Assay (oxidimetric) ..... 294.6 ÷ 300.6 g/l

Code	Size	Packaging	Notes
317511	2.5 l	Glass bottle	

Chromium (III) potassium sulfate dodecahydrate
Cromo (III) di potassio solfato dodecaidrato • Chrome (III) potassium sulfate dodécahydraté • Cromo (III) de potasio sulfato dodecahidrato

Synonym:
Chrome alum
Potassium chromium (III)sulfate dodecahydrate

$CrK(SO_4)_2.12H_2O$
Molecular Weight: 499,39
CAS: 7788-99-0

Warning
H315-H319
P264-P280g-P280i-P305+P351+P338-P332+P313-P337+P313

Chromium (III) potassium sulfate dodecahydrate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP
RPE

Description ..... Purple crystals
Identification ..... Positive
Water-insoluble matter ..... ≤100 ppm
Ammonium ..... ≤100 ppm
Chloride ..... ≤20 ppm
Heavy metals (Pb) ..... ≤100 ppm
Al ..... ≤200 ppm
Fe ..... ≤100 ppm
Assay (oxidimetric) ..... 98.0 ÷ 102.0 %

Code	Size	Packaging	Notes
440876	100 g	Plastic bottle	
440877	1 kg	Plastic bottle	

Chromium (III) potassium sulfate dodecahydrate > RE - Pure
RE

Description ..... Dark violet crystals
Identification ..... Positive
Water-insoluble matter ..... ≤ 0.01 %
Chloride ..... ≤ 20 ppm
Ammonium ..... ≤ 100 ppm
Al ..... ≤ 200 ppm
Fe ..... ≤ 100 ppm
Assay (iodometric) ..... ≥ 99 %

Code	Size	Packaging	Notes
336457	1 kg	Plastic bottle	
336458	5 kg	Plastic jar	

Chromium (III) sulfate

Cromo solfato ico • Chrome (III) sulfate • Cromo (III) sulfato

Synonym:
Chromium(III) sulfate hydrate
Chromium trisulfate

$Cr_2(SO_4)_3.nH_2O$
Molecular Weight: 392,18
CAS: 15244-38-9

Classification transport
ONU: 3260
Transport Hazard class: 8
Packing group II

Danger
H302-H312-H332-H314
P264-P271-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Chromium (III) sulfate > RPE - For analysis

RPE

Description ..... Dark green crystals
Identification ..... Positive
pH sol. 5% at 25° C ..... 1.00 ÷ 2.50
Ammonium ..... ≤ 100 ppm
Chloride ..... ≤ 500 ppm
Fe ..... ≤ 0.1 %
Assay (iodometric) ..... ≥ 75 Cr2(SO4)3

Code	Size	Packaging	Notes
440955	250 g	Plastic bottle	
440957	1 kg	Plastic bottle	

Chromotropic acid disodium salt

Acido cromotropico sale bisodico • Acide chromotropique sel disodique • Acido cromotrópico sal disódica

Synonym:
4,5-Dihydroxynaphtalene-2,7-disulfonic acid disodium salt
1,8-Dihydroxynaphtalene-3,6-disulfonic acid disodium salt

$1,8\text{-}(OH)_2C_{10}H_4\text{-}3,6\text{-}(SO_3Na)_2.2H_2O$
Molecular Weight: 400,29
CAS: 5808-22-0
EEC-N: 204-972-9

Chromotropic acid disodium salt > RPE - For analysis

RPE

Description ..... Whitish powder
Identification ..... Positive
Water-insoluble matter ..... ≤ 0.02 %
Nitrate sinsitivity ..... Conform
Formaldehyde sensit. ..... Conform
Assay (acidimetric) ..... ≥ 98.5 %

Code	Size	Packaging	Notes
404872	25 g	Glass bottle	

Cinchonine

Cinconina • Cinchonine • Cinconina

$C_{19}H_{22}N_2O$
Molecular Weight: 294,4
CAS: 118-10-5
EEC-N: 204-234-6

Warning
H302-H332
P264-P271-P261-P304+P340-P330-P301+P312a

Cinchonine > RPE - For analysis

RPE

Description ..... White powder
Identification ..... Positive
Ready carbonizable substances ..... Conform
Melting point ..... 260 ÷ 265 °C
Specific optical rotation (c=5 in Ethano ..... +225 ÷ +230 °
Loss on drying ..... ≤ 1 %
Total chlorine ..... ≤ 300 ppm
Dil. H2SO4-ins. matter ..... ≤ 200 ppm
Heavy metals (Pb) ..... ≤ 10 ppm
Residue on ignition ..... ≤ 0.1 %
Total sulphur ..... ≤ 50 ppm
Fe ..... ≤ 10 ppm
Assay (non-aqueos medium) ..... ≥ 99 %

Code	Size	Packaging	Notes
437251	10 g	Glass bottle	

Citral

Citrale • Citral • Citral

Synonym:
3,7-Dimethyl-2,6-octadienal

$C_{10}H_{16}O$
Molecular Weight: 152,24
CAS: 5392-40-5
EEC-N: 226-394-6

Warning
H315-H317
P264-P261-P280g-P272-P333+P313-P302+P352a

Citral > RE - Pure

RE

Description ..... Yellow liquid
Identification ..... Positive
Density at 20° C ..... 0.886 ÷ 0.890
Refractive index at 20°C ..... 1.4870 ÷ 1.4910
Residue on ignition ..... ≤500 ppm
Assay (GLC) ..... ≥97 %

Code	Size	Packaging	Notes
437401	25 ml	Glass bottle	

Citric acid anhydrous

Acido citrico anidro • Acide citrique anhydre • Acido citrico anhidro

$C_6H_8O_7$
Molecular Weight: 192,13
CAS: 77-92-9
EEC-N: 201-069-1

Warning
H319
P264-P280i-P305+P351+P338-P337+P313

Citric acid anhydrous > ERBApharm - According to pharmacopoeia : Ph.Eur.-USP-FU-BP-DAB-JP

ERBApharm

Description ..... White crystalline powder
Identification ..... Positive
Appearance of solution .....Conform Ph.Eur.
Ready carbonizable substances.....Conform
USP-NF
Organic volatile impurities Conform USP-NF
Water (K.F.) ..... ≤ 1.0 %
Oxalic acid.....≤ 360 ppm
Sulphated ash..... ≤ 0.1 %
Sulphate.....≤ 150 ppm
Heavy metals (Pb).....≤ 10 ppm
Assay (acidimetric) .....99.5 ÷ 100.5 % s.s.
Origin (BSE/TSE).....Vegetable
Residual solvents (Current ICH).....Conform

Code	Size	Packaging	Notes
302486	500 g	Plastic bottle	
302487	1 kg	Plastic bottle	
302485	5 kg	Plastic jar	
302488	25 kg	Plastic bucket	
302484	50 kg	Fibre drum	

Citric acid monohydrate

Acido citrico monoidrato • Acide citrique monohydraté • Acido cítrico monohidrato

$C_6H_8O_7.H_2O$
Molecular Weight: 210,14
CAS: 5949-29-1
EEC-N: 201-069-1

Warning
H319
P264-P280i-P305+P351+P338-P337+P313

Citric acid monohydrate > RPE - For analysis - ISO - ACS - Reag.Ph.Eur. - Reag.USP

RPE

Description .....White crystals
Identification ..... Positive
Water-insoluble matter .....≤50 ppm
Chloride.....≤10 ppm
Phosphate .....≤10 ppm
Sulphate.....≤20 ppm
Fe .....≤3 ppm
Pb .....≤2 ppm
Substances darkened by sulphuric acid ..... Conform
Appearance of solution .....Conform
Organic volatile impurities.....Conform
Water (K.F.) .....7.5 ÷ 8.8 %
Oxalic acid.....≤350 ppm
Sulphated ash.....≤200 ppm
Heavy metals (Pb).....≤10 ppm
As .....≤3 ppm
Assay (acidimetric) .....99.5 ÷ 100.5 % s.s.

Code	Size	Packaging	Notes
403725	250 g	Plastic bottle	
403727	1 kg	Plastic bottle	
403721	5 kg	Plastic jar	
403724	25 kg	Plastic bucket	
403722	50 kg	Fibre drum	

Citric acid monohydrate > ERBApharm - According to pharmacopoeia : Ph.Eur.-USP-FU-BP-DAB

ERBApharm

Description .....White crystals
Identification ..... Positive
Appearance of solution .....Conform Ph.Eur.
Ready carbonizable substances.....Conform
USP-NF
Water (K.F.) .....7.5 ÷ 9.0 %
Oxalic acid.....≤ 360 ppm
Sulphated ash..... ≤ 0.1 %
Sulphate.....≤ 150 ppm
Heavy metals (Pb).....≤ 10 ppm
Assay (acidimetric) .....99.5 ÷ 100.5 % s.s.

Code	Size	Packaging	Notes
302557	1 kg	Plastic bottle	
302559	5 kg	Plastic jar	
302551	25 kg	Plastic bucket	
302554	50 kg	Fibre drum	

Citric acid monohydrate > ERBApharm - Powder-According to pharmacopoeia : Ph.Eur.-USP-FU-BP-DAB

ERBApharm

Description ..... White crystalline powder
Identification ..... Positive
Appearance of solution .....Conform Ph.Eur.
Ready carbonizable substances.....Conform USP-NF
Water (K.F.) .....7.5 ÷ 9.0 %
Oxalic acid.....≤ 360 ppm
Sulphated ash..... ≤ 0.1 %
Sulphate .....≤ 150 ppm
Heavy metals (Pb).....≤ 10 ppm
Assay (acidimetric) .....99.5 ÷ 100.5 % s.s.
Origin (BSE/TSE).....Vegetable
Residual solvents (Current ICH).....Conform

Code	Size	Packaging	Notes
302507	1 kg	Plastic bottle	
302509	5 kg	Plastic jar	
302501	25 kg	Plastic bucket	
302504	50 kg	Fibre drum	

Clayton's yellow

Giallo Clayton • Jaune Clayton • Amarillo Clayton

Synonym:
Thiazole Yellow G
Direct Yellow 9

$C_{28}H_{19}N_5O_6S_4Na_2$
Molecular Weight: 695,73
CAS: 1829-00-1
EEC-N: 217-377-4

Clayton's yellow > RPE - For analysis - C.I. 19540

RPE

Description .....Yellow brown powder
Identification ..... Positive
pH range ..... 1.2 - 13.2
Loss on drying .....≤10 %
Mg sensitivity.....≤0.5 µg/ml
Residue on ignition.....18.4 ÷ 22.4 %

Code	Size	Packaging	Notes
453518	5 g	Glass bottle	
453519	25 g	Glass bottle	

Dye for microscopy. Indicator acid - base (pH 12.0 ÷ 13.0). Fluorescence indicator. For the determination of magnesium

Cobalt standard solution

Cobalto standard soluzione • Cobalt standard solution • Cobalto, solución patrón

Classification transport
ONU: 3264
Transport Hazard class: 8
Packing group III

Danger
H314-H350-H412-HEU208-HA26
P264-P273-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Cobalt standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2

RS

Code	Size	Packaging	Notes
615004300	1 l	Plastic bottle	A 100 ppm solution Ref Ph.Eur 5004300

Cobalt standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505562	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505565	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid
505563	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Cobalt standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
503511	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503515	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
503513	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503517	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Cobalt standard solution > RS - Standard solution for AAS

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
507533	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
E497495	100 ml	Bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
507484	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
E497491	500 ml	Bottle	conc. 1.000 ppm Matrix : Hydrochloric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Cobalt standard solution > RS - NORMEX - Concentrated solution for AAS

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
439131		Plastic vial	conc. 1.000 ppm Matrix : Nitric acid - Volume : 50 ml

Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package

Cobalt (II) acetate tetrahydrate

Cobalto acetato oso tetraidrato • Cobalt II acétate tetrahydrate • Cobalto (II) acetato tetrahidrato

Synonym:
Cobaltous acetate tetrahydrate

$Co(CH_3COO)_2.4H_2O$
Molecular Weight: 249,08
CAS: 6147-53-1
EEC-N: 200-755-8

Danger
H302-H334-H317-H351
P264-P280-P284-P304+P340-P342+P311a-P308+P313

Cobalt (II) acetate tetrahydrate > RPE - For analysis

RPE

Description .....Red-violet powder
Identification .....Positive
pH sol. 5% at 25° C .....5.95 ÷ 7.45
Chloride.....≤50 ppm
Sulphate.....≤100 ppm
Cu.....≤50 ppm
Fe .....≤10 ppm
Ni..... ≤0.1 %
Zn .....≤200 ppm
Assay (complexometric)....98.0 ÷ 100.0 %

Code	Size	Packaging	Notes
439154	100 g	Glass bottle	
439155	250 g	Glass bottle	
439156	1 kg	Glass bottle	

Cobalt (II) ammonium sulfate hexahydrate

Cobalto ammonio solfato oso esaidrato • Cobalt II ammonium sulfate hexahydraté • Cobalto (II) y amonio sulfato hexahidrato

Synonym:
Ammonium cobalt(II) sulfate hexahydrate

$Co(NH_4)_2(SO_4)_2.6H_2O$
Molecular Weight: 395,23
CAS: 13596-46-8
EEC-N: 237-043-1

Warning
H302-H332-H315-H319-H317-H335
P264-P271-P280-P304+P340-P305+P351+P338-P330

Cobalt (II) ammonium sulfate hexahydrate > RPE - For analysis

RPE

Description ..... Red crystal. powder
Identification .....Positive
pH sol. 5% at 25° C .....4.0 ÷ 7.0
Chloride.....≤20 ppm
Water-insoluble matter .....≤100 ppm
Nitrate .....≤20 ppm
Subst. not ppt. (NH4)2S ..... ≤0.3 %
Cu.....≤10 ppm
Fe .....≤30 ppm
Ni..... ≤0.1 %
Pb.....≤10 ppm
Zn .....≤50 ppm
Assay (complexometric)..... ≥98 %

Code	Size	Packaging	Notes
439204	100 g	Glass bottle	
439207	1 kg	Glass bottle	

Cobalt (II) chloride hexahydrate

Cobalto cloruro oso esaidrato • Cobalt II chlorure hexahydrate • Cobalto (II) cloruro hexahidrato

Synonym: *Cobaltous chloride hexahydrate*

$CoCl_2.6H_2O$
Molecular Weight: 237,93
CAS: 7791-13-1
EEC-N: 231-589-4

Classification transport
ONU: 3288
Transport Hazard class: 6.1
Packing group III

Danger
H302-H334-H317-H350i-H410-HA26
P264-P273-P284-P304+P340-P342+P311a-P308+P313

Cobalt (II) chloride hexahydrate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description ..... Red-violet crystals	Sulphate ..... ≤ 100 ppm	K ..... ≤ 100 ppm	Zn ..... ≤ 300 ppm
Identification ..... Positive	Ca ..... ≤ 50 ppm	Mg ..... ≤ 50 ppm	Assay (complexometric) .... 98.0 ÷ 102.0 %
Water-insoluble matter ..... ≤ 100 ppm	Cu ..... ≤ 20 ppm	Na ..... ≤ 500 ppm	
Nitrate ..... ≤ 100 ppm	Fe ..... ≤ 50 ppm	Ni ..... ≤ 0.1 %	

Code	Size	Packaging	Notes
439355	250 g	Plastic bottle	
439357	1 kg	Plastic bottle	
439353	25 kg	Sack	

Cobalt (II) nitrate hexahydrate

Cobalto nitrato oso esaidrato • Cobalt II nitrate hexahydrate • Cobalto (II) nitrato hexahidrato

Synonym: *Cobaltous nitrate hexahydrate*

$Co(NO_3)_2.6H_2O$
Molecular Weight: 291,04
CAS: 10026-22-9
EEC-N: 233-402-1

Classification transport
ONU: 1477
Transport Hazard class: 5.1
Packing group III

Danger
H272-H302-H312-H334-H317-H350i-HA26
P221-P264-P210a-P280a-P304+P340-P342+P311a

Cobalt (II) nitrate hexahydrate > RS - For enviromental analysis - ACS

RS

Description ..... Red crystals	Chloride ..... ≤20 ppm	Fe ..... ≤10 ppm	Ni ..... ≤0.15 %
Identification ..... Positive	Sulphate ..... ≤50 ppm	K ..... ≤100 ppm	Pb ..... ≤20 ppm
Water-insoluble matter ..... ≤100 ppm	Ca ..... ≤50 ppm	Mg ..... ≤50 ppm	Zn ..... ≤100 ppm
Ammonium ..... ≤0.2 %	Cu ..... ≤20 ppm	Na ..... ≤500 ppm	Assay (complexometric) .... 98.0 ÷ 102.0 %

Code	Size	Packaging	Notes
439504	100 g	Glass bottle	

Cobalt (II) nitrate hexahydrate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description ..... Red brick crystals	Sulphate ..... ≤ 50 ppm	K ..... ≤ 100 ppm	Pb ..... ≤ 20 ppm
Identification ..... Positive	Ca ..... ≤ 50 ppm	Mg ..... ≤ 50 ppm	Zn ..... ≤ 100 ppm
Water-insoluble matter ..... ≤ 100 ppm	Cu ..... ≤ 20 ppm	Na ..... ≤ 500 ppm	Assay (complexometric) .... 98.0 ÷ 102.0 %
Chloride ..... ≤ 20 ppm	Fe ..... ≤ 10 ppm	Ni ..... ≤ 0.15 %	

Code	Size	Packaging	Notes
439455	250 g	Plastic bottle	
439457	1 kg	Plastic bottle	

Cobalt (II) sulfate heptahydrate

Cobalto solfato oso eptaidrato • Cobalt II sulfate heptahydrate • Cobalto (II) sulfato heptahidrato

Synonym: *Cobaltous sulfate heptahydrate*

$CoSO_4.7H_2O$
Molecular Weight: 281.10
CAS: 10026-24-1
EEC-N: 233-334-2

Classification transport
ONU: 3077
Transport Hazard class: 9
Packing group III

Danger
H302-H334-H317-H350-H410-HA26
P264-P273-P284-P304+P340-P342+P311a-P308+P313

Cobalt (II) sulfate heptahydrate > RPE - For analysis

RPE

Description ..... Red crystals	Chloride ..... ≤20 ppm	Cu ..... ≤10 ppm	Zn ..... ≤20 ppm
Identification ..... Positive	Water-insoluble matter ..... ≤30 ppm	Fe ..... ≤10 ppm	Assay (complexometric) ..... ≥99 %
pH sol. 5% at 25° C ..... 3.5 ÷ 4.5	Nitrate ..... ≤50 ppm	Ni ..... ≤500 ppm	
Ammonium ..... ≤100 ppm	Subst. not ppt. (NH4)2S ..... ≤0.1 %	Pb ..... ≤10 ppm	

Code	Size	Packaging	Notes
439705	250 g	Plastic bottle	
439707	1 kg	Plastic bottle	

Congo red
Rosso Congo • Rouge Congo • Rojo Congo

Synonym:
Direct Red 28

$C_{32}H_{22}N_6Na_2O_6S_2$
Molecular Weight: 696,66
CAS: 573-58-0
EEC-N: 209-358-4

Danger
H350-H361d-HA26
P280-P201-P202-P308+P313-P405-P501a

Congo red > RPE - For analysis - C.I. 22120 — RPE

Description .....Red brown powder Identification ..... Positive Colour change..... blue red pH range .....3.0 - 5.2

Code	Size	Packaging	Notes
476762	25 g	Glass bottle	
476764	100 g	Plastic bottle	

Dye for microscopy (histology). Indicator acid - base (pH 3.0 ÷ 5.2)

Congo red solution
Rosso Congo soluzione • Rouge Congo solution • Rojo Congo solución

Synonym:
Direct Red 28

$C_{32}H_{22}N_6Na_2O_6S_2$
Molecular Weight: 696,66
CAS: 573-58-0

Classification transport
Transport Hazard class: 3
Packing group III

Congo red solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1 — RS

Code	Size	Packaging	Notes
611022001	100 ml	Plastic bottle	Ref Ph.Eur 1022001

Change colour : pH 3.0 (blue) to pH 5.0 (pink)

Congo red paper
Cartina rosso Congo • Papier rouge Congo • Rojo Congo papel

Danger
H350-HA26
P280-P201-P202-P308+P313-P405-P501a

Congo red paper > RS - For pHmetry — RS

Code	Size	Packaging	Notes
435220000	1 roll	Box	Congo red paper, Color change : red --> Blue, Change pH 5.0-->3.0

Coomassie brilliant blue R 250
Blu Coomassie R250 • Bleu de Coomassie brillant R 250 • Azul Coomassie R 250

Synonym:
Brilliant Blue R
Acid Blue 83

$C_{45}H_{44}N_3NaO_7S_2$
Molecular Weight: 825,99
CAS: 6104-59-2
EEC-N: 228-060-5

Warning
H302-H312-H332
P264-P271-P280-P261-P304+P340-P330

Coomassie brilliant blue R 250 > RS - For microscopy - C.I. 42660 — RS

Description ..... Dark violet powder Identification ..... Positive E (1%/1cm lambda max) .....≥ 300

Code	Size	Packaging	Notes
428642	25 g	Glass bottle	

Dye for histochemistry

Copper standard solution

Rame standard soluzione • Cuivre standard solution • Cobre, solución patrón

Classification transport HEU210
ONU: 3264
Transport Hazard class: 8
Packing group III

Copper standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2 RS

Code	Size	Packaging	Notes
615001100	100 ml	Plastic bottle	A 0.1 % solution Ref Ph.Eur 5001100

Copper standard solution > RS - Standard solution for ICP-MS RS

Code	Size	Packaging	Notes
505577	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505578	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid
505579	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Copper standard solution > RS - Standard solution for ICP RS

Code	Size	Packaging	Notes
503541	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503545	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
503543	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503547	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Copper standard solution > RS - Standard solution for AAS RS

Description ..... Clear blue liquid Identification ..... Positive Titration factor..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
E497615	100 ml	Glass bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
504545	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
507478	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
E497611	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Copper standard solution > RS - NORMEX - Concentrated solution for AAS RS

Description ..... Green clear liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
475151		Plastic vial	conc. 1.000 ppm Matrix : Nitric acid - Volume : 50 ml

Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package

Copper standard solution > RS - Quality control standard solution for AAS (graphite furnace) RS

Code	Size	Packaging	Notes
504361	50 ml	Plastic bottle	conc. 10 +/- 1 µg/L Matrix : 2% Nitric acid

Copper electrolytic rebaked, sheet
Rame elettrolitico lastra ricotto • Cuivre électrolytique recuit, feuilles • Cobre electrolítico recocido, hojas

Cu
Molecular Weight: 63,55
CAS: 7440-50-8
EEC-N: 231-159-6

H413
P273-P501a

Copper electrolytic rebaked, sheet > RPE - For analysis
RPE

Description ..... Metallic sheet Identification ..... Positive Assay .....≥99.8 %

Code	Size	Packaging	Notes
475215	250 g	Box	

~ 0,15 mm thick

Copper electrolytic, turnings
Rame elettrolitico, tornitura • Cuivre électrolytique, tournures • Cobre electrolítico, virutas

Cu
Molecular Weight: 63,55
CAS: 7440-50-8
EEC-N: 231-159-6

H413
P273-P501a

Copper electrolytic, turnings > RPE - For analysis
RPE

Description ..... Trucioli metallici Identification ..... Positive Assay .....≥99 %

Code	Size	Packaging	Notes
475305	250 g	Carton box	
475307	1 kg	Plastic jar	

Copper electrolytic, wire
Rame elettrolitico, filo • Cuivre électrolytique, fils • Cobre electrolítico, hilos

Cu
Molecular Weight: 63,55
CAS: 7440-50-8
EEC-N: 231-159-6

H413
P273-P501a

Copper electrolytic, wire > RPE - For analysis
RPE

Description ..... Filo
Identification ..... Positive
HNO3-insoluble matter .....≤300 ppm
Sn + Sb.....≤200 ppm
Ag.....≤100 ppm
As.....≤5 ppm
Fe .....≤50 ppm
Mn .....≤10 ppm
P.....≤10 ppm
Pb.....≤200 ppm
Assay ..... ≥99.9 %

Code	Size	Packaging	Notes
475185	250 g	Box	
475187	1 kg	Box	

~ 1 mm diameter

Copper reduced, powder
Rame ridotto, polvere • Cuivre réduit, poudre • Cobre reducido, polvo

Cu
Molecular Weight: 63,55
CAS: 7440-50-8
EEC-N: 231-159-6

H413
P273-P501a

Copper reduced, powder > RPE - For analysis - Reag. Ph.Eur.
RPE

Description ..... Red-brown metallic powder Identification ..... Positive Assay .....≥ 98.5 % (Cu)

Code	Size	Packaging	Notes
475334	100 g	Glass bottle	
475337	1 kg	Glass bottle	

Copper (II) acetate hydrate

Rame acetato ico idrato • Cuivre (II) acétate hydrate • Cobre (II) acetato hidrato

Synonym:
Cupric acetate monohydrate

$Cu(CH_3COO)_2.nH_2O$
Molecular Weight: 199,65
CAS: 6046-93-1
EEC-N: 205-553-3

Warning
H302
P264-P270-P330-P301+P312a-P501a

Copper (II) acetate hydrate > RPE - For analysis - ACS

RPE

Description Green-azure crystalline powder
Identification ..... Positive
Chloride ..... ≤ 30 ppm
Water-insoluble matter ..... ≤ 100 ppm
Sulphate ..... ≤ 100 ppm
Ca ..... ≤50 ppm
K ..... ≤100 ppm
Ni ..... ≤100 ppm
Na ..... ≤500 ppm
Assay (oxidimetric) ..... 98.0÷102.0 %

Code	Size	Packaging	Notes
475405	250 g	Plastic bottle	
475407	1 kg	Plastic bottle	

Copper (II) acetate hydrate > RE - Pure

RE

Description .. Dark green crystalline powder
Identification ..... Positive
Chloride ..... ≤ 200 ppm
pH (5%m/m solution) ..... 5.0 - 6.0
Sulphate ..... ≤ 0.1 %
Fe ..... ≤ 250 ppm
Assay (oxydimetric) ..... ≥ 98.0 %

Code	Size	Packaging	Notes
364007	1 kg	Plastic bottle	
364008	25 kg	Plastic bucket	

Copper (II) carbonate (basic)

Rame carbonato basico ico • Cuivre (II) carbonate basique • Cobre (II) carbonato básico

Synonym:
Cupric carbonate basic

$CuCO_3.Cu(OH)_2$
Molecular Weight: 221,12
CAS: 12069-69-1
EEC-N: 235-113-6

Warning
H302
P264-P270-P330-P301+P312a-P501a

Copper (II) carbonate (basic) > RPE - For analysis

RPE

Description ..... Green azure powder
Identification ..... Positive
Fe ..... ≤ 300 ppm
Pb ..... ≤ 100 ppm
Assay (oxidimetric) ..... 53 ÷ 57 % (Cu)
Cd ..... ≤ 10 ppm
Chlorine ..... ≤ 250 ppm
Specific gravity ..... 0.8 ÷ 1.05 g/cm3
Acidity solubility ..... Complete

Code	Size	Packaging	Notes
475555	250 g	Plastic bottle	
475557	1 kg	Plastic bottle	
475553	25 kg	Plastic bucket	

Copper (I) chloride

Rame cloruro oso • Cuivre (I) chlorure • Cobre (I) cloruro

Synonym:
Cuprous chloride
Copper monochloride

CuCl
Molecular Weight: 98,99
CAS: 7758-89-6
EEC-N: 231-842-9

Classification transport
ONU: 2802
Transport Hazard class: 8
Packing group III

Warning
H302-H410
P264-P273-P270-P330-P301+P312a-P391

Copper (I) chloride > RPE - For analysis

RPE

Description ..... green-dark powder
Identification ..... Positive
HCl-insoluble matter ..... ≤ 0.02 %
Substances not ppt. H2S ..... ≤ 2 %
Sulphate ..... ≤ 0.1 %
As ..... ≤ 10 ppm
Fe ..... ≤ 0.02 %
Assay (oxidimetric) ..... ≥ 90.0 %

Code	Size	Packaging	Notes
475605	250 g	Plastic bottle	
475607	1 kg	Plastic bottle	

Copper (I) chloride solution 7% in ammonia

Rame cloruro oso soluzione 7% in ammoniaca • Cuivre (I) chlorure solution 7% dans l'ammoniaque • Cobre (I) cloruro solución 7% en amonio hidróxido

Synonym:
Cuprous chloride
Copper monochloride

CuCl
Molecular Weight: 98,99
CAS: 7758-89-6

Classification transport
ONU: 3082
Transport Hazard class: 9
Packing group III

Danger
H332-H314-H318-H335-H411
P264-P273-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Copper (I) chloride solution 7% in ammonia > RS - For gas analysis according to Orsat

RS

Description ..... Blue liquid | Identification ..... Positive | Density at 20° C ..... ~ 1.08 | Assay ..... 6.5 ÷ 7.5 %

Code	Size	Packaging	Notes
E475632	1 l	Bottle	

Stabilized electrolytic copper

Copper (II) chloride dihydrate

Rame cloruro ico diidrato • Cuivre (II) chlorure dihydraté • Cobre (II) cloruro dihidrato

Synonym:
Cupric chloride dihydrate

$CuCl_2.2H_2O$
Molecular Weight: 170,47
CAS: 10125-13-0
EEC-N: 215-704-5

Classification transport
ONU: 2802
Transport Hazard class: 8
Packing group III

Danger
H290-H302-H312-H318-H400-H411
P264-P273-P280-P305+P351+P338-P330-P301+P312a

Copper (II) chloride dihydrate > RPE - For analysis

RPE

Description ..... Green - azure crystals
Identification ..... Positive
pH sol. 5% at 20°C ..... 3.0 ÷ 3.8
Total nitrogen ..... ≤ 40 ppm
Assay (complexometric) ..... ≥ 99 %
Ca ..... ≤ 20 ppm
K ..... ≤ 20 ppm
Mg ..... ≤ 20 ppm
Na ..... ≤ 20 ppm
Sulphate ..... ≤ 50 ppm
As ..... ≤ 1 ppm
Fe ..... ≤ 10 ppm
Ni ..... ≤ 50 ppm
Pb ..... ≤ 40 ppm

Code	Size	Packaging	Notes
475685	250 g	Plastic bottle	
475687	1 kg	Plastic bottle	

Copper (II) chloride dihydrate > RE - Pure

RE

Description ..... Blue crystals
Identification ..... Positive
pH sol. 5% at 20°C ..... 3 ÷ 3.8
Sulphate ..... ≤ 50 ppm
Nitrogen compounds (N) ..... ≤ 0.004 %
As ..... ≤ 1 ppm
Ca ..... ≤ 20 ppm
Nitrate ..... ≤ 0.5 %
K ..... ≤ 20 ppm
Zn ..... ≤ 0.05 %
Solubility ..... Conform
Pb ..... ≤ 40 ppm
Assay ..... ≥ 99 %

Code	Size	Packaging	Notes
364507	1 kg	Plastic bottle	
364508	5 kg	Plastic jar	
364502	25 kg	Plastic bucket	

Copper (I) iodide

Rame ioduro oso • Cuivre (I) iodure • Cobre (I) ioduro

Synonym:
Cuprous iodide

CuI
Molecular Weight: 190,45
CAS: 7681-65-4
EEC-N: 231-674-6

Classification transport
ONU: 3077
Transport Hazard class: 9
Packing group III

Warning
H302-H315-H319-H335-H410
P264-P273-P271-P304+P340-P305+P351+P338-P330

Copper (I) iodide > RE - Pure

RE

Description ..... Polvere nocciola ammass. | Identification ..... Positive | Assay (oxidimetric) ..... ≥98 %

Code	Size	Packaging	Notes
364611	25 kg	Plastic bucket	

Copper (II) nitrate trihydrate

Rame nitrato ico triidrato • Cuivre (II) nitrate trihydraté • Cobre (II) nitrato trihidrato

Synonym:
Cupric nitrate trihydrate

$Cu(NO_3)_2.3H_2O$
Molecular Weight: 241,6
CAS: 10031-43-3
EEC-N: 221-838-5

Classification transport
ONU: 1477
Transport Hazard class: 5.1
Packing group II

Danger
H272-H302
P221-P264-P210a-P280a-P220-P330

Copper (II) nitrate trihydrate > RPE - For analysis

RPE

Description	Blue crystals	Chloride	≤10 ppm	Sulphate	≤25 ppm	Ni	≤10 ppm
Identification	Positive	Water-insoluble matter	≤30 ppm	As	≤1 ppm	Pb	≤10 ppm
pH sol. 5% at 25° C	3.0 ÷ 4.0	Substances not ppt. H2S	≤500 ppm	Ba	≤50 ppm	Zn	≤10 ppm
Ammonium	≤10 ppm	Subst. ppt. by (NH4)2S	≤50 ppm	Fe	≤20 ppm	Assay (oxidimetric)	≥99.5 %

Code	Size	Packaging	Notes
475782	100 g	Plastic bottle	
475786	500 g	Plastic bottle	
475783	1 kg	Plastic bottle	
475784	2.5 kg	Plastic bottle	

Copper (II) oxide

Rame ossido ico • Cuivre (II) oxyde • Cobre (II) óxido

Synonym:
Cupric oxide

CuO
Molecular Weight: 79,55
CAS: 1317-38-0
EEC-N: 215-269-1

Classification transport
ONU: 3077
Transport Hazard class: 9
Packing group III

Warning
H302-H400-H410
P264-P273-P270-P330-P301+P312a-P391

Copper (II) oxide > RPE - For analysis

RPE

Description	Black powder	HNO3-insoluble matter	≤ 0.02 %	Zolfo totale (SO4)	≤ 0.01 %
Identification	Positive	Substances not ppt. H2S	≤ 0.2 %	C	≤ 500 ppm
Free alkalis	Conform	Nitrogen compounds (N)	≤ 0.002 %	Assay (iodometric)	≥ 99 %

Code	Size	Packaging	Notes
475994	100 g	Glass bottle	
475997	1 kg	Glass bottle	

Copper (II) pyrophosphate

Rame pirofosfato • Cuivre (II) pyrophosphate • Cobre (II) pirofosfato

Synonym:
Cupric pyrophosphate hydrate

$Cu_2P_2O_7.nH_2O$
Molecular Weight: 301,04 (an,)
CAS: 15191-80-7
EEC-N: 239-250-2

Warning
H302
P264-P270-P330-P301+P312a-P501a

Copper (II) pyrophosphate > RE - Pure

RE

Description	Polvere granul. azzurra	Identification	Positive	Loss on drying	≤ 20 %	Assay (ex Cu)	33 ÷ 37 %

Code	Size	Packaging	Notes
364621	1 kg	Plastic bottle	

For electroplating

Copper (II) sulfate anhydrous

Rame solfato ico anidro • Cuivre (II) sulfate anhydre • Cobre (II) sulfato anhidro

Synonym: *Cupric sulfate*

$CuSO_4$
Molecular Weight: 159,6
CAS: 7758-98-7
EEC-N: 231-847-6

Classification transport
ONU: 3077
Transport Hazard class: 9
Packing group III

Warning
H302-H315-H319-H410
P264-P273-P305+P351+P338-P330-P332+P313-P337+P313

Copper (II) sulfate anhydrous > RPE - For analysis

RPE

Description .....Greyish powder
Identification .....Positive
Loss on drying .....≤1 %
Chloride.....≤100 ppm
Dil. H2SO4-ins. matter.....≤50 ppm
Ca.....≤50 ppm
Fe .....≤30 ppm
K.....≤100 ppm
Mg .....≤100 ppm
Na.....≤200 ppm
Ni.....≤50 ppm
Pb .....≤80 ppm
Assay (oxidimetric) .....99 ÷ 100.5 % (s.s.)

Code	Size	Packaging	Notes
476245	250 g	Plastic bottle	
476247	1 kg	Plastic bottle	
476243	25 kg	Plastic bucket	

Copper (II) sulfate anhydrous > RE - Pure

RE

Description .....Grey powder
Identification .....Positive
Fe .....≤0.1 %
Water-insoluble matter .....≤0.1 %
Assay (oxidimetric) .....≥97 %

Code	Size	Packaging	Notes
365006	500 g	Plastic bottle	
365007	1 kg	Plastic bottle	
365002	25 kg	Drum	

Copper (II) sulfate pentahydrate

Rame solfato ico pentaidrato • Cuivre (II) sulfate pentahydraté • Cobre (II) sulfato pentahidrato

Synonym: *Blue Vitriol*

$CuSO_4.5H_2O$
Molecular Weight: 249,68
CAS: 7758-99-8
EEC-N: 231-847-6

Classification transport
ONU: 3077
Transport Hazard class: 9
Packing group III

Danger
H301-H315-H319-H410
P264-P273-P305+P351+P338-P301+P310a-P330-P332+P313

Copper (II) sulfate pentahydrate > RS - For microanalysis

RS

Description .....Blue crystals
Identification .....Positive
Not soluble matter.....≤ 0.005 %
Nitrogen compounds (N) .....≤ 0.002 %
Assay (iodometric).....98.0 ÷ 102.0 %

Code	Size	Packaging	Notes
476154	100 g	Glass bottle	

Copper (II) sulfate pentahydrate > RPE - For analysis - ACS

RPE

Description .....Blue crystals
Identification .....Positive
Total nitrogen.....≤20 ppm
Chloride.....≤10 ppm
H2SO4-insoluble matter .....≤50 ppm
Ca.....≤50 ppm
Fe .....≤30 ppm
K.....≤100 ppm
Na.....≤200 ppm
Ni.....≤50 ppm
Assay (oxidimetric) .....98.0 ÷ 102.0 %

Code	Size	Packaging	Notes
476096	100 g	Plastic bottle	
476097	1 kg	Plastic bottle	
476099	5 kg	Plastic jar	
476092	25 kg	Plastic bucket	

Copper (II) sulfate pentahydrate > ERBApharm - According to pharmacopoeia : Ph.Eur.-USP-FU-BP

ERBApharm

Description ..... Blue crystalline powder
Identification .....Positive
Appearance of solution .....Conform Ph.Eur.
Loss on drying .....35.0 ÷ 36.5 %
Chloride.....≤100 ppm
Ca.....≤50 ppm
Fe .....≤30 ppm
K.....≤100 ppm
Na.....≤200 ppm
Ni.....≤50 ppm
Pb.....≤50.0 ppm
Assay (oxidimetric) .....99.0 ÷ 100.5 %

Code	Size	Packaging	Notes
364757	1 kg	Plastic bottle	
364759	5 kg	Plastic jar	
364752	25 kg	Plastic bucket	

Copper (II) sulfate solution 12.5%

Rame solfato ico soluzione 12.5% • Cuivre (II) sulfate solution 12.5% • Cobre (II) sulfato solución 12.5%

Synonym:
Cupric sulfate

$CuSO_4$
Molecular Weight: 159.60
CAS: 7758-98-7

Classification transport
ONU: 3082
Transport Hazard class: 9
Packing group III

Warning
H315-H319-H411
P264-P273-P280-P305+P351+P338-P332+P313-P337+P313

Copper (II) sulfate solution 12.5% > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611022501	100 ml	Plastic bottle	Ref Ph.Eur 1022500

Copper (II) sulfate solution 12.5% > RPE - For analysis

RPE

Description ..... Clear blue liquid Identification ..... Positive Density at 20° C ..... ~ 1.08 Assay (oxidimetric) ..... 12.0 ÷ 13.0 %

Code	Size	Packaging	Notes
E476211	1 l	Bottle	

m-Cresol

m-Cresolo • m-Crésol • m-Cresol

Synonym:
3-Hydroxytoluene
3-Methylphenol

$CH_3C_6H_4OH$
Molecular Weight: 108,14
CAS: 108-39-4
EEC-N: 203-577-9

Classification transport
ONU: 2076
Transport Hazard class: 6.1
Packing group II

Danger
H301-H311-H314
P264-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338-P301+P310a

m-Cresol > RE - Pure

RE

Description ..... Reddish liquid Water (K.F.) ..... ≤0.05 % Boiling point ..... ~ 202 ° C
Identification ..... Positive Assay (GLC) ..... ≥99 % Melting point ..... ~ 12 ° C

Code	Size	Packaging	Notes
440435	250 g	Glass bottle	
440437	1 kg	Glass bottle	

o-Cresol red

Rosso o-cresolo • Rouge de o-crésol • Rojo de o-cresol

Synonym:
o-Cresolsulfonphthalein

$C_{21}H_{18}O_5S$
Molecular Weight: 382,44
CAS: 1733-12-6
EEC-N: 217-064-2

Warning
H315-H319-H335
P264-P271-P304+P340-P305+P351+P338-P312a-P332+P313

o-Cresol red > RPE - For analysis

RPE

Description ..... Red brown powder Alcohol-insolub. matter ..... Conform Loss on drying (110°C) ..... ≤ 3.0 %
Identification ..... Positive Sensitivity(pH 7.2-8.8) ..... Conform Colour change ..... yellow red

Code	Size	Packaging	Notes
476778	5 g	Glass bottle	

Clark indicator series

m-Cresol purple

Porpora m-cresolo • Pourpre de m-cresol • Púrpura de m-cresol

Synonym: *m-Cresolsulfonphthalein*

$C_{21}H_{18}O_5S$
Molecular Weight: 382,44
CAS: 2303-01-7
EEC-N: 218-960-6

m-Cresol purple > RPE - For analysis

RPE

Description ..... Dark green powder
Identification ..... Positive
Solubilità (0.1% in ETOH 50%) ..... Complete
E (1%/1cm) a 578nm in tamp. ..... ≥ 900
Colour change ..... yellow - violet
pH range ..... 7.4 ÷ 9.0

Code	Size	Packaging	Notes
470067	1 g	Glass bottle	
470068	25 g	Glass bottle	

Clark indicator series. Acid-base indicator (pH 2.4 to 7.6 ÷ 0.5 ÷ 9.2)

o-Cresol

o-Cresolo • o-Crésol • o-Cresol

Synonym: *2-Methylphenol*

$CH_3C_6H_4OH$
Molecular Weight: 108,14
CAS: 95-48-7
EEC-N: 202-423-8

Classification transport
ONU: 3455
Transport Hazard class: 6.1
Packing group II

Danger
H301-H311-H314
P264-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338-P301+P310a

o-Cresol > RE - Pure

RE

Description ..... Colourless to yellow brown liquid or solid
Identification ..... Positive
Boiling point ..... 189.5 ÷ 192.5 °C
Melting point ..... 29 ÷ 31 ° C
Water (K.F.) ..... ≤ 0.3 %
Assay (GLC) ..... ≥ 98 %

Code	Size	Packaging	Notes
440385	250 g	Glass bottle	
440387	1 kg	Glass bottle	

o-Cresol Red solution 0.2% in ethanol

Rosso o-cresolo soluzione 0,2% in alcole etilico • Rouge de o-crésol solution 0.2% dans l'éthanol • Rojo de o-cresol solución 0.2% en alcohol etilico

Synonym: *o-Cresolsulfonphthalein*

$C_{21}H_{18}O_5S$
Molecular Weight: 382,44
CAS: 1733-12-6

Classification transport
ONU: 1170
Transport Hazard class: 3
Packing group III

Warning
H226-H319
P210-P241-P264-P303+P361+P353-P305+P351+P338-P403+P235

o-Cresol Red solution 0.2% in ethanol > RPE - For analysis

RPE

Description ..... Red liquid
Identification ..... Positive
Sensitivity(pH 7.2-8.8) ..... Conform
Colour change ..... Yellow-red violet

Code	Size	Packaging	Notes
E476805	250 ml	Bottle	

Indicator series Clark indicator acid-base (pH 0.2 to 1.8 to 7.0 ÷ 8.8)

o-Cresolsulfonphthalein ▶ o-Cresol red

alpha-trans-Crotonic acid

Acido alfa-trans-crotonico • Acide alpha-trans-crotonique • Acido alfa-trans-crotonico

$CH_3CH{:}CHCOOH$
Molecular Weight: 86,09
CAS: 3724-65-0
EEC-N: 223-077-4

Classification transport
ONU: 2823
Transport Hazard class: 8
Packing group III

Danger
H302-H311-H315-H319-H335
P264-P271-P304+P340-P305+P351+P338-P330-P332+P313

alpha-trans-Crotonic acid > RPE - For analysis

RPE

Description ..... xx.ni bianchi o giall
Identification ..... Positive
Melting point ..... 70.1 ÷ 73.1 ° C
Chloride ..... ≤10 ppm
Heavy metals (Pb) ..... ≤20 ppm
Residue on ignition ..... ≤100 ppm
Sulphate ..... ≤50 ppm
Fe ..... ≤10 ppm
Assay (acidimetric) ..... 99 ÷ 100 %

Code	Size	Packaging	Notes
404923	50 g	Glass bottle	

Crystal violet

Violetto cristalli • Violet cristallisé • Violeta cristal

Synonym:
Crystal violet solution
Basic violet 3

$C_{25}H_{30}ClN_3$
Molecular Weight: 407,99
CAS: 548-62-9
EEC-N: 208-953-6

Classification transport
ONU: 2811
Transport Hazard class: 6.1
Packing group III

Danger
H302-H318-H351-H410
P264-P273-P280i-P305+P351+P338-P308+P313-P330

Crystal violet > RPE - For analysis - C.I. 42555

RPE

Description ..... Dark green powder
Identification ..... Positive
Suitability for anhydrous titration ... Conform
Loss on drying ..... ≤9 %
Alcohol-insolub. matter ..... ≤0.5 %
Residue on ignition ..... ≤2.5 %
Colour change ..... yellow blue
pH range ..... 0.1 - 2.0

Code	Size	Packaging	Notes
491502	25 g	Glass bottle	

Dye for microscopy (bacteriology-Botanical-histology). Indicator acid - base (pH 0.1 ÷ 2.0)

Crystal violet oxalate for Gram-Hucker Kit

Violetto cristalli ossalato soluzione per kit Gram-Hucker • Violet cristallisé oxalate pour kit de Gram-Hucker • Violeta cristal oxalato solución para kit Gram- Hucker

Warning
H302-H319-H351-H412
P264-P273-P280-P305+P351+P338-P308+P313-P330

Crystal violet oxalate for Gram-Hucker Kit > RS - For bacteriology

RS

Description ..... Violet clear liquid
Identification ..... Positive

Code	Size	Packaging	Notes
491561	250 ml	Bottle	

CE IVD

Crystal violet solution 0.5% in anhydrous acetic acid

Violetto cristalli soluzione 0.5% in acido acetico anidro •
Violet cristallisé solution 0.5% dans l'acide acétique anhydre •
Violeta cristal solución 0.5% en acido acético anhidro

Synonym:
Crystal violet solution
Basic violet 3

$C_{25}H_{30}ClN_3$
Molecular Weight: 407,99
CAS: 548-62-9

Classification transport
ONU: 2920
Transport Hazard class: 8
Packing group II

Danger
H226-H314-H318-H412
P210-P241-P264-P273-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

Crystal violet solution 0.5% in anhydrous acetic acid > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611022901	100 ml	Glass bottle	Ref Ph.Eur 1022901

Crystal violet solution 0.5% in anhydrous acetic acid > RPE - For analysis

RPE

Description ..... Violet clear liquid
Identification ..... Positive

Code	Size	Packaging	Notes
E491551	500 ml	Bottle	

Cupri-citric solution

Cupri-citrico soluzione • Solution cupri-citrique • Cobre-cítrico solución

Classification transport
ONU: 3082
Transport Hazard class: 9
Packing group III

H411
P273-P391-P501a

Cupri-citric solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611023100	1 l	Plastic bottle	Ref Ph.Eur 1023100

Cupriethylenediamine solution

Cuprietilendiammina soluzione • Cupriéthylènediamine solution • Cobre etilendiamina solución

Synonym:
Bis(ethylenediamine)copper(II) hydroxide solution
Copper(II)-ethylenediame complex

$Cu(NH_2CH_2CH_2NH_2)_2(OH)_2$
Molecular Weight: 217,76
CAS: 14552-35-3

Classification transport
ONU: 1761
Transport Hazard class: 8
Packing group II

Danger
H314-H318
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Cupriethylenediamine solution > RPE - For analysis

RPE

Description ..... Blue liquid
Identification ..... Positive
Assay (ex Cu) ..... 0.98 ÷ 1.02 M/l
Assay(Ethylendiamine) ..... 1.96 ÷ 2.04 M/l
Assay (cupriethylenediamine) ..... 0.98 ÷ 1.02 M/l

Code	Size	Packaging	Notes
E441071	1 l	Glass bottle	

Cupri-tartaric solution

Cupri-tartarico soluzione • Solution cupri-tartrique • Cobre-tartárico solución

Classification transport
ONU: 1719
Transport Hazard class: 8
Packing group II

Danger
H314-H318-H411
P264-P273-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Cupri-tartaric solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611023300	2 x 500 ml	Plastic bottle	Ref Ph.Eur 1023300

Cyanide standard solution

Cianuri standard soluzione • Cyanure solution standard • Cianuro, solución patrón

Classification transport
ONU: 1760
Transport Hazard class: 8
Packing group III

Warning
H315-H319
P264-P280-P305+P351+P338-P332+P313-P337+P313-P302+P352a

Cyanide standard solution > RS - Standard solution for ion chromatography

RS

Code	Size	Packaging	Notes
503358	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water and nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Cyclohexane

Cicloesano • Cyclohexane • Ciclohexano

$CH_2(CH_2)_4CH_2$
Molecular Weight: 84,16
CAS: 110-82-7
EEC-N: 203-806-2

Classification transport
ONU: 1145
Transport Hazard class: 3
Packing group II

Danger
H225-H315-H336-H304-H410
P210-P241-P264-P273-P303+P361+P353-P304+P340-P403+P235

Cyclohexane > RS - For HPLC - Isocratic Grade

RS

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 20° C ..... 0.776 ÷ 0.782
Refractive index at 20°C. 1.4229 ÷ 1.4299
Boiling point ..... 80.2 ÷ 81.2 ° C
Water (K.F.) ..... ≤100 ppm
Residue on evaporation ..... ≤2 ppm
Acidity or alkalinity ..... ≤0.0002 meq/g
Assay (GLC) ..... ≥99.9 %

U.V. Transmittance
at 200 nm ..... ≥4 %
at 210 nm ..... ≥15 %
at 220 nm ..... ≥50 %
at 230 nm ..... ≥80 %
at 240 nm ..... ≥92 %
At 250 nm ..... ≥ 98 %
at 260 nm ..... ≥98.5 %
Aromatic compounds ..... ≤ 5 ppm

Code	Size	Packaging	Notes
412431000	1 l	Glass bottle	
412432000	2.5 l	Glass bottle	

Cyclohexane > RS - PESTIPUR - For pesticide analysis

RS

Description ..... Clear colourless liquid
Identification ..... Positive
Colour ..... ≤ 10 hazen
Water ..... ≤ 100 ppm
Not volatile residue ..... ≤ 2 ppm
GC-ECD (Lindano) ..... ≤ 3 ng/l
GC-NPD (Ethylparation) ..... ≤ 3 ng/l
Assay (GLC) ..... ≥ 99.8 %
Refractive index at 20°C ..... 1.424 ÷ 1.428

Code	Size	Packaging	Notes
436931	1 l	Glass bottle	
436932	2.5 l	Glass bottle	

Cyclohexane > RS - SPECTROSOL - For optical spectroscopy - Reag.Ph.Eur.

RS

Description ..... Clear colourless liquid
Colour (APHA) ..... ≤10
Identification ..... Positive
Density at 20° C ..... 0.776 ÷ 0.782
Refractive index at 20°C . 1.4229 ÷ 1.4299
Boiling point ..... 80.2 ÷ 81.2 ° C
Melting point ..... 5.5 ÷ 7.5 ° C
Acidity or alkalinity ..... ≤0.0002 meq/g
Water (K.F.) ..... ≤100 ppm
Residue on evaporation ..... ≤5 ppm
Aromatic compounds ..... ≤5 ppm
Assay (GLC) ..... ≥99.9 %
U.V. Transmittance
at 210 nm ..... ≥15 %
at 220 nm ..... ≥45 %
at 230 nm ..... ≥75 %
at 250 nm ..... ≥98 %
UV Absorbance at 220 nm ..... ≤ 0.35 AU
UV Absorbance at 235 nm ..... ≤ 0.16 AU
UV Absorbance at 240 nm ..... ≤ 0.05 AU
UV Absorbance at 250 nm ..... ≤ 0.01 AU

Code	Size	Packaging	Notes
436967	1 l	Glass bottle	
436963	2.5 l	Glass bottle	

Cyclohexane > RS - Anhydrous - For analysis

RS

Refractive index at 20°C ..... 1.424 - 1.428
Water content (K.F.) ..... ≤ 50 mg/Kg
Non volatile residue ..... ≤ 10 mg/Kg
Colour ..... ≤ 10 Hazen
Aromatic compounds ..... ≤ 150 mg/Kg
Assay (GC) ..... ≥ 99.8 %
Methylcyclohexane ..... ≤ 1000 mg/Kg
Clear liquid appearance ..... Conform
Identification (IR) ..... Conform
Density d20/4 ..... 0.775 - 0.782
Total sulphur (S) ..... ≤ 1 ppm

Code	Size	Packaging	Notes
P0251010	200 ml	Bottle with septum	
P0251016	1 l	Glass bottle	

Cyclohexane > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description ..... Clear liquid
Colour (APHA) ..... ≤10
Identification (I.R.) ..... Conform
Water solubility ..... Conform
Ready carbonizable substances ..... Conform
Alcohol miscibility ..... Complete
Diethyl ether miscib. ..... Complete
Density at 20° C ..... 0.776 ÷ 0.782
Refractive index at 20°C . 1.4229 ÷ 1.4299
Boiling point ..... 80 ÷ 82 ° C
Melting point ..... 5.5 ÷ 7.5 ° C
Water (K.F.) ..... ≤100 ppm
Residue on evaporation ..... ≤10 ppm
Acidity (acetic acid) ..... ≤10 ppm
Subst. reducing KMnO4 ..... ≤20 ppm(5m)
Total sulphur ..... ≤1 ppm
Assay (GLC) ..... ≥99.8 %
Aromatic compounds ..... ≤ 150 ppm
Methylcyclohexane ..... ≤ 0.1 %

Code	Size	Packaging	Notes
436903	1 l	Glass bottle	
436905	2.5 l	Glass bottle	
436906	5 l	Plastic tank	
436901	10 l	Metal tank	
436902	21 kg	Metal drum	
436908	150 kg	Metal drum	

Cyclohexane > RE - Pure

RE

Description ..... Clear liquid
Identification ..... Positive
Density at 20° C ..... 0.774 ÷ 0.784
Refractive index at 20°C . 1.4214 ÷ 1.4314
Boiling point ..... 80 ÷ 82 ° C
Water (K.F.) ..... ≤150 ppm
Residue on evaporation ..... ≤50 ppm
Assay (GLC) ..... ≥ 99.8 %

Code	Size	Packaging	Notes
333752	1 l	Glass bottle	
333751	2.5 l	Glass bottle	
528215	5 l	Plastic tank	
508235	10 l	Plastic tank	
333753	21 kg	Metal drum	
528216	25 l	Plastic tank	
528217	200 l	Metal drum	

Cyclohexane-d12
Cicloesano-d12 • Cyclohexane-d12 • Ciclohexano-d12

C_6D_{12}
Molecular Weight: 96,07
CAS: 1735-17-7
EEC-N: 217-077-3

Danger
H225-H315-H336-H304-H410
P210-P241-P264-P273-P303+P361+P353-P304+P340-P403+P235

Cyclohexane-d12 > RS - For NMR - min 99.5%
RS

Code	Size	Packaging	Notes
P5151A	2 x 0.5 ml	Glass ampoule	

Cyclohexanol
Cicloesanolo • Cyclohexanol • Ciclohexanol

$CH_2(CH_2)_4CHOH$
Molecular Weight: 100,16
CAS: 108-93-0
EEC-N: 203-630-6

Warning
H302-H332-H315-H335
P264-P271-P304+P340-P330-P332+P313-P403+P233

Cyclohexanol > RE - Pure
RE

Description ..... Clear colourless liquid
Identification ..... Positive
Refractive index at 20°C ..... 1.4600 ÷ 1.4670
Residue on evaporation ..... ≤0.1 %
Assay (GLC) ..... ≥98 %

Code	Size	Packaging	Notes
333801	1 l	Glass bottle	

Cyclohexanone
Cicloesanone • Cyclohexanone • Ciclohexanona

$CH_2(CH_2)_4CO$
Molecular Weight: 98,15
CAS: 108-94-1
EEC-N: 203-631-1

Classification transport
ONU: 1915
Transport Hazard class: 3
Packing group III

Warning
H226-H332
P210-P241-P243-P303+P361+P353-P304+P340-P403+P235

Cyclohexanone > RPE - For analysis
RPE

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 20° C ..... 0.941 ÷ 0.951
Refractive index at 20°C. 1.4477 ÷ 1.4537
Boiling point ..... 152 ÷ 157 °C
Water (K.F.) ..... ≤0.1 %
Residue on evaporation ..... ≤500 ppm
Aldehydes(Formaldehyde) ..... ≤ 0.1 %
Cyclohexanol ..... ≤ 0.1 %
Heavy metals (Pb) ..... ≤2 ppm
Fe ..... ≤10 ppm
Assay (GLC) ..... ≥99.5 %

Code	Size	Packaging	Notes
437053	1 l	Glass bottle	
437052	2.5 l	Glass bottle	
437055	25 kg	Metal drum	

Cyclohexanone > RE - Pure
RE

Description ..... Yellow clear liquid
Identification ..... Positive
Density at 20° C ..... 0.941 ÷ 0.951
Refractive index at 20°C. 1.4457 ÷ 1.4557
Boiling point ..... 152 ÷ 157 °C
Water (K.F.) ..... ≤0.1 %
Acidity(CycloexilcarAc) ..... ≤0.2 %
Cyclohexanol ..... ≤ 0.1 %
Residue on evaporation ..... ≤500 ppm
Assay (GLC) ..... ≥99 %

Code	Size	Packaging	Notes
333901	1 l	Glass bottle	
333905	5 l	Aluminium can	
333902	26 kg	Metal drum	
528332	200 l	Metal drum	

Cyclohexylamine
Cicloesilammina • Cyclohexylamine • Ciclohexilamina

Synonym: *Aminocyclohexane*

$CH_2(CH_2)_4CHNH_2$
Molecular Weight: 99,18
CAS: 108-91-8
EEC-N: 203-629-0

Classification transport
ONU: 2357
Transport Hazard class: 8
Packing group II

Danger
H226-H302-H312-H314-H361f
P210-P241-P264-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

Cyclohexylamine > RPE - For analysis
RPE

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 20° C ..... 0.864 ÷ 0.870
Refractive index at 20°C. 1.4572 ÷ 1.4612
Boiling point..... 134.0 ÷ 135.0 ° C
Residue on ignition..... ≤50 ppm
Assay (alkalimetric)..... ≥99 %

Code	Size	Packaging	Notes
437104	1 l	Glass bottle	

Cyclopentyl methyl ether
Ciclopentil-metil-etere • Cyclopentylméthyléther • Ciclopentil metil eter

Synonym: *CPME*

$C_6H_{12}O$
Molecular Weight: 100,16
CAS: 5614-37-9

Classification transport
ONU: 3271
Transport Hazard class: 3
Packing group II

Danger
H225-H302-H315-H319
P210-P305+P351+P338-P501a

Cyclopentyl methyl ether > RE - Pure
RE

Refractive index at 20°C..... 1.4199 - 1.4219
Water content (K.F.)..... ≤ 100 mg/Kg
Colour ..... ≤ 10 Hazen
Assay (GC)..... ≥ 99.9 %
Peroxides..... ≤ 50 meq/Kg

Code	Size	Packaging	Notes
P8010216	1 l	Glass bottle	
P8010229	5 l	Plastic tank	

L-Cysteine
L-Cisteina • L-Cystéine • L-Cisteína

Synonym: *(R)-2-Amino-3-mercaptopropionic acid*

$HSCH_2CH(NH_2)COOH$
Molecular Weight: 121,16
CAS: 52-90-4
EEC-N: 200-158-2

Warning
H302-H312
P264-P280h-P270-P330-P301+P312a-P302+P352a

L-Cysteine > RPE - For analysis
RPE

Description ..... White powder
Identification ..... Positive
Specific optical rotation..... +8 ÷ +9.5 °
Loss on drying ..... ≤ 0.5 %
Chloride..... ≤ 400 ppm
Heavy metals (Pb)..... ≤ 10 ppm
Residue on ignition..... ≤ 0.1 %
Sulphate..... ≤ 300 ppm
Assay with HClO4..... ≥ 98.0 % (s.s)

Code	Size	Packaging	Notes
437308	5 g	Glass bottle	
437309	100 g	Glass bottle	

L-Cystine
L-Cistina • L-Cystine • L-Cistina

Synonym: *(R,R)-3,3'-Dithiobis(2-aminopropionicacid)*

$C_6H_{12}N_2O_4S_2$
Molecular Weight: 240,3
CAS: 56-89-3
EEC-N: 200-296-3

Danger
H301-H315-H319-H335
P264-P271-P280-P304+P340-P305+P351+P338-P301+P310a

L-Cystine > RPE - For analysis
RPE

Description ..... White crystalline powder
Identification ..... Positive
Loss on drying ..... ≤ 0.5 %
Potere rotat. spec. (C=2; HCl 1M)... -209 ÷ -224 ° (s.s.)
Ammonium..... ≤ 200 ppm
Chloride..... ≤ 200 ppm
Sulphate..... ≤ 300 ppm
Heavy metals (Pb)..... ≤ 10 ppm
Residue on ignition..... ≤ 0.1 %
Fe ..... ≤ 10 ppm
Assay (acidimetric) ..... ≥ 98.5 %

Code	Size	Packaging	Notes
437351	10 g	Glass bottle	
437355	100 g	Glass bottle	

Decalcifying agent
Decalcificante • Décalcifiant • Descalcificante

Classification transport HEU210
ONU: 3264
Transport Hazard class: 8
Packing group III

Decalcifying agent > RS - For histology
RS

Description ..... Clear colourless liquid | Identification ..... Positive | Titolo EDTA Na2 (mom. preparaz.) ≥ 0.26 % (p/p) | Titolo HCl (mom. preparaz.) .. ≥ 2.21 % (p/p)

Code	Size	Packaging	Notes
441221	1 l	Plastic bottle	

CE IVD

Decane
Decano • Décane • Decano

$CH_3(CH_2)_8CH_3$
Molecular Weight: 142,28
CAS: 124-18-5
EEC-N: 204-686-4

Classification transport
ONU: 2247
Transport Hazard class: 3
Packing group III

Danger
H226-H304
P210-P241-P243-P280a-P303+P361+P353-P403+P235

Decane > RE - Pure
RE

Refractive index at 20°C ..... 1.408 - 1.412 | Colour ..... ≤ 10 Hazen | Assay (GC) ..... ≥ 99 %

Code	Size	Packaging	Notes
P0093016	1 l	Glass bottle	

Decanedioic acid ▶ Sebacic acid

1-Decanesulfonic acid sodium salt
Acido 1-decansolfonico sale sodico • Acide 1-decanesulfonique sel sodique • Acido 1-decanosulfónico sal sódica

Synonym:
Sodium 1-decanesulfonate
1-Decanesulfonic acid sodium salt

$CH_3(CH_2)_9SO_3Na$
Molecular Weight: 244,33
CAS: 13419-61-9

Warning
H315-H319-H335
P264-P271-P280-P304+P340-P305+P351+P338-P312a

1-Decanesulfonic acid sodium salt > RS - For ion pair chromatography
RS

Description ..... White to cream powder
Water (K.F.) ..... ≤ 1.0 %
Assay ..... ≥ 99.0 %

Absorbance (0,2M)
At 210 nm ..... ≤ 0.05 AU
At 220 nm ..... ≤ 0.03 AU
At 230 nm ..... ≤ 0.02 AU
At 260 nm ..... ≤ 0.02 AU
Solubility 5% in water ..... Clear and colourless solution

Code	Size	Packaging	Notes
405871	25 g	Glass bottle	
405872	100 g	Plastic bottle	

Density Standard

Densità standard • Etalons de densité • Patrones de densidad

Density Standard > RS - PREMIUM - For calibration

RS

Code	Size	Packaging	Notes
540401	100 ml	Glass bottle	0.6960g/ml at 15°C
540402	100 ml	Glass bottle	0.8715g/ml at 15°C
540403	100 ml	Glass bottle	1.0040g/ml at 15°C
540404	100 ml	Glass bottle	1.2498g/ml at 15°C
540405	100 ml	Glass bottle	0.6919g/ml at 20°C
540406	100 ml	Glass bottle	0.7033g/ml at 20°C
540407	100 ml	Glass bottle	0.7488g/ml at 20°C
540408	100 ml	Glass bottle	0.8668g/ml at 20°C
540409	100 ml	Glass bottle	1.0005g/ml at 20°C
540410	100 ml	Glass bottle	1.0301g/ml at 20°C
540411	100 ml	Glass bottle	1.0792g/ml at 20°C
540412	100 ml	Glass bottle	1.1651g/ml at 20°C
540413	100 ml	Glass bottle	1.2486g/ml at 20°C
540414	100 ml	Glass bottle	1.3304g/ml at 20°C
540415	100 ml	Glass bottle	1.5799g/ml at 20°C
540416	100 ml	Glass bottle	1.7470g/ml at 20°C
540417	100 ml	Glass bottle	1.9141g/ml at 20°C
540418	100 ml	Glass bottle	0.8207g/ml at 40°C
540420	100 ml	Glass bottle	0.9323g/ml at 40°C
540421	100 ml	Glass bottle	1.2408g/ml at 40°C
540422	100 ml	Glass bottle	0.9990g/ml at 60°C

In accordance with ASTM D1480-12 for testing of Density or Relative Density (specific and API gravity) by Bingham Pycnometer.
For density measurement by pycnometric techniques, vibrational techniques or hydrometer based techniques

Density Standard > RS - QUALITY - For calibration

RS

Code	Size	Packaging	Notes
540451	100 ml	Glass bottle	0.7524g/ml at 15°C
540452	100 ml	Glass bottle	0.7721g/ml at 15°C
540453	100 ml	Glass bottle	0.7933g/ml at 15°C
540454	100 ml	Glass bottle	0.8168g/ml at 15°C
540455	100 ml	Glass bottle	0.8428g/ml at 15°C
540456	100 ml	Glass bottle	0.8715g/ml at 15°C
540457	100 ml	Glass bottle	0.6919g/ml at 20°C
540458	100 ml	Glass bottle	0.7033g/ml at 20°C
540459	100 ml	Glass bottle	0.7488g/ml at 20°C
540460	100 ml	Glass bottle	0.7893g/ml at 20°C
540461	100 ml	Glass bottle	0.8126g/ml at 20°C
540462	100 ml	Glass bottle	0.8384g/ml at 20°C
540463	100 ml	Glass bottle	0.8668g/ml at 20°C
540464	100 ml	Glass bottle	0.9098g/ml at 20°C
540465	100 ml	Glass bottle	0.9476g/ml at 20°C
540470	100 ml	Glass bottle	0.9969g/ml at 25°C
540471	100 ml	Glass bottle	0.9245g/ml at 50°C
540472	100 ml	Glass bottle	0.9695g/ml at 60°C
540473	100 ml	Glass bottle	0.9815g/ml at 80°C
540566	100 ml	Glass bottle	1.0005g/ml at 20°C
540567	100 ml	Glass bottle	1.0301g/ml at 20°C
540568	100 ml	Glass bottle	0.8622g/ml at 25°C
540569	100 ml	Glass bottle	0.9438g/ml at 25°C

In accordance with ASTM D4052 for testing of Density, Relative Density and API Gravity of Liquids by Digital Density Meter
For density measurement by vibrational techniques or hydrometer based techniques

Deuterium oxide-d

Deuterio ossido-d • Deutérium oxyde-d • Deuterio oxido-d

Synonym:
Heavy water

D_2O
Molecular Weight: 20,03
CAS: 7789-20-0
EEC-N: 232-148-9

Deuterium oxide-d > RS - For NMR - min 99.8%

RS

Code	Size	Packaging	Notes
P5160	10 x 0.6 ml	Glass ampoule	
P5169	10 x 0.75 ml	Glass ampoule	
P5164	5 x 10 ml	Glass bottle	
P5165	25 ml	Glass bottle	
P5165S	25 ml	Bottle with septum	
P5166	100 ml	Glass bottle	
P5168	1 l	Glass bottle	

Deuterium oxide-d > RS - For NMR - min 99.98%

RS

Code	Size	Packaging	Notes
P5179	10 x 0.75 ml	Glass ampoule	
P5175	25 ml	Glass bottle	

Deuterium oxide-d + 0.01% DMSO

Deuterio ossido-d + 0.01% DMSO • Deutérium oxyde-d + 0.01% DMSO • Deuterio oxido-d + 0.01% DMSO

Synonym: *Heavy water*

D_2O
Molecular Weight: 20,03
CAS: 7789-20-0
EEC-N: 232-148-9

Deuterium oxide-d + 0.01% DMSO > RS - For NMR - min 99.98%

RS

Code	Size	Packaging	Notes
P5170D	10 x 0.6 ml	Glass ampoule	
P5173D	2 ml	Glass ampoule	

Deuterium oxide-d + 0.5% TSP d4

Deuterio ossido-d + 0.5% TSP d4 • Deutérium oxyde-d + 0.5% TSP d4 • Deuterio oxido-d + 0.5% TSP d4

Synonym: *Heavy water*

D_2O
Molecular Weight: 20,03
CAS: 7789-20-0
EEC-N: 232-148-9

Deuterium oxide-d + 0.5% TSP d4 > RS - For NMR - min 99,9%

RS

Code	Size	Packaging	Notes
P5161T	10 x 0.5 ml	Glass ampoule	

Deuterium oxide-d + 0.03% TSP d4

Deuterio ossido-d + 0.03% TSP d4 • Deutérium oxyde-d + 0.03% TSP d4 • Deuterio oxido-d + 0.03% TSP d4

Synonym: *Heavy water*

D_2O
Molecular Weight: 20,03
CAS: 7789-20-0
EEC-N: 232-148-9

Deuterium oxide-d + 0.03% TSP d4 > RS - For NMR - min 99.8%

RS

Code	Size	Packaging	Notes
P5160T	10 x 0.6 ml	Glass ampoule	

Devarda's alloy

Lega Devarda • Alliage de Devarda • Aleación según Devarda

CAS: 8049-11-4

Classification transport
ONU: 3132
Transport Hazard class: 4.3
Packing group II

Danger
H228-H261-H411
P210-P223-P241-P273-P231+P232-P280

Devarda's alloy > RPE - For analysis

RPE

Description ..... Greyish metallic powder
Identification ..... Positive
N.....≥0.005 %
Al.....≥45 %
Cu.....≥50 %
Zn.....≥5 %

Code	Size	Packaging	Notes
457625	250 g	Glass bottle	
457627	1 kg	Plastic bottle	

Dextrose ▶ D(+)Glucose anhydrous

Dextrose monohydrate ▶ D(+)Glucose monohydrate

Diacetone alcohol

Diacetonalcole • Diacétone alcool • Diacetonalcohol

Synonym:
4-Hydroxy-4-methyl-2-pentanone

$(CH_3)_2C(OH)CH_2COCH_3$
Molecular Weight: 116,16
CAS: 123-42-2
EEC-N: 204-626-7

Classification transport
ONU: 1148
Transport Hazard class: 3
Packing group III

Warning
H226-H319
P210-P241-P264-P303+P361+P353-P305+P351+P338-P403+P235

Diacetone alcohol > RPE - For analysis

RPE

Description ..... Yellow clear liquid
Identification ..... Positive
Water miscibility ..... Conform
Alcohol miscibility ..... Conform
Density at 25° C ..... 0.927 ÷ 0.935
Refractive index at 20°C. 1.4212 ÷ 1.4272
Water (K.F.) ..... ≤ 0.1 %
Residue on evaporation ..... ≤ 50 ppm
Acidity (acetic acid) ..... ≤ 100 ppm
Alcalinity (NH3) ..... ≤ 10 ppm
Heavy metals (Pb) ..... ≤ 2 ppm
Fe ..... ≤ 1 ppm
Assay (GLC) ..... ≥ 99 %

Code	Size	Packaging	Notes
441771	250 ml	Glass bottle	
441774	1 l	Glass bottle	

Diacetone alcohol > RE - Pure

RE

Description ..... Yellow clear liquid
Identification ..... Positive
Density at 25° C ..... 0.926 ÷ 0.936
Refractive index at 20°C. 1.4192 ÷ 1.4292
Water (K.F.) ..... ≤ 0.3 %
Residue on evaporation ..... ≤ 100 ppm
Acidity (acetic acid) ..... ≤ 100 ppm
Assay (GLC) ..... ≥ 98 %

Code	Size	Packaging	Notes
337001	1 l	Glass bottle	
337004	2.5 l	Glass bottle	
337002	18 kg	Metal drum	

Diacetyldioxime

Diacetildiossima • Diacétyldioxime • Diacetildioxima

Synonym:
Dimethylglyoxime
2,3-Butanedione dioxime

$CH_3C{:}NOHC{:}NOHCH_3$
Molecular Weight: 116,12
CAS: 95-45-4
EEC-N: 202-420-1

Warning
H302
P264-P270-P330-P301+P312a-P501a

Diacetyldioxime > RPE - For analysis - ACS

RPE

Description ..... White crystalline powder
Identification ..... Positive
Suitability for Ni det. ..... Conform
Melting point ..... 239 ÷ 241 °C
Alcohol-insolub. matter ..... ≤ 0.05 %

Code	Size	Packaging	Notes
441553	50 g	Glass bottle	

Reagent for the spectrophotometric determination of: Co (III), Fe (II), Ni (II), Pd (II)

Diacetyldioxime sodium salt

Diacetildiossima sale sodico • Diacétyldioxime sel sodique • Diacetildioxima sal sódica

Synonym:
Dimethylglyoxime disodium salt octahydrate

$C_4H_6N_2Na_2O_2.8H_2O$
Molecular Weight: 304,09
CAS: 75006-64-3
EEC-N: 262-523-2

Warning
H302
P264-P270-P330-P301+P312a-P501a

Diacetyldioxime sodium salt > RPE - For analysis

RPE

Description ..... White powder
Identification ..... Positive
Suitability for Ni det. ..... Conform
Loss on drying ..... 45.8 ÷ 49.0 %
Chloride ..... ≤50 ppm
Water-insoluble matter ..... ≤50 ppm
Sulphate ..... ≤50 ppm
Assay (gravimetric) ..... ≥ 98.5 %

Code	Size	Packaging	Notes
441623	50 g	Glass bottle	
441625	250 g	Glass bottle	

For precipitation of metals

Diacetyldioxime solution 1% in ethanol

Diacetildiossima soluzione 1% in alcole etilico • Diacétyldioxime solution 1% dans l'éthanol • Diacetildioxima solución 1% en alcohol etilico

Synonym:
Dimethylglyoxime
2,3-Butanedione dioxime

$CH_3C{:}NOHC{:}NOHCH_3$
Molecular Weight: 116,12
CAS: 95-45-4

Classification transport
ONU: 1170
Transport Hazard class: 3
Packing group II

Danger
H225-H319
P210-P241-P264-P303+P361+P353-P305+P351+P338-P403+P235

Diacetyldioxime solution 1% in ethanol > RPE - For analysis

RPE

Description ..... Clear colourless liquid Identification ..... Positive Density at 15° C ..... 0.813 ÷ 0.819

Code	Size	Packaging	Notes
E441581	500 ml	Bottle	

Indicator for determining metals

1,2-Diaminoethane ▶ Ethylenediamine

Diatomaceous earth ▶ Kieselguhr composed

Dibenzoyl peroxide

Dibenzoile perossido • Benzoyle péroxyde • Dibenzoilo peróxido

Synonym:
Benzoyl peroxide

$(C_6H_5CO)_2O_2$
Molecular Weight: 242,22
CAS: 94-36-0
EEC-N: 202-327-6

Classification transport
ONU: 3104
Transport Hazard class: 5.2

Danger
H241-H319-H317
P210-P264-P280a-P305+P351+P338-P337+P313-P410

Dibenzoyl peroxide > RE - Pure

RE

Description ..... White granular powder Identification ..... Positive Assay (oxidimetric) ..... ≥ 62.4 %

Code	Size	Packaging	Notes
427345	250 g	Plastic bottle	

Dibenzoylmethane

Dibenzoilmetano • Dibenzoylméthane • Dibenzoilmetano

$(C_6H_5CO)_2CH_2$
Molecular Weight: 224,26
CAS: 120-46-7
EEC-N: 204-398-9

Dibenzoylmethane > RPE - For analysis

RPE

Description ..... Yellowish crystalline powder Melting point ..... 77.0 ÷ 79.0 ° C Residue on ignition ..... ≤500 ppm
Identification ..... Positive Water (K.F.) ..... ≤0.1 % Assay (GLC) ..... ≥ 97 %

Code	Size	Packaging	Notes
441873	25 g	Glass bottle	

Dicalite 4158

Dicalite 4158 • Dicalite 4158 • Dicalite 4158

CAS: 93763-70-3

Dicalite 4158 > RE - For filtration

RE

Permeability (PRFv) ..... 90 - 165 Wet cake density ..... ≤ 13.6 lbs/ft³ Float ..... ≤ 30 ml/20g

Code	Size	Packaging	Notes
P8880014	500 g	Plastic jar	
P8880017	1 kg	Plastic jar	
P8880027	5 kg	Plastic bucket	

Substitute to CELITE 545

Dichloroacetic acid
Acido dicloroacetico • Acide dichloroacétique • Acido dicloroacético

$CHCl_2COOH$
Molecular Weight: 128,94
CAS: 79-43-6
EEC-N: 201-207-0

Classification transport
ONU: 1764
Transport Hazard class: 8
Packing group II

Danger
H314-H400
P264-P273-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Dichloroacetic acid > RPE - For analysis
RPE

Description ..... Clear liquid
Identification ..... Positive
Colour ..... ≤ 50 APHA
Density at 20° C ..... 1.562 ÷ 1.572
Refractive index at 20°C ..... 1.4648 ÷ 1.4668
Assay (acidimetric) ..... 99.0 ÷ 101.0 %

Code	Size	Packaging	Notes
405101	250 ml	Glass bottle	
405103	1 l	Glass bottle	

Dichloroacetic acid > RE - Pure
RE

Description ..... Clear liquid
Identification ..... Positive
Freezing point ..... ≥ 12 °C
Water (KF) ..... ≤ 0.3 %
Assay (acidimetric) ..... ≥ 99 %

Code	Size	Packaging	Notes
303151	1 l	Glass bottle	

m-Dichlorobenzene
m-Diclorobenzolo • m-Dichlorobenzène • m-Diclorobenceno

Synonym:
1,3-Dichlorobenzene

$C_6H_4Cl_2$
Molecular Weight: 147
CAS: 541-73-1
EEC-N: 208-792-1

Classification transport
ONU: 2810
Transport Hazard class: 6.1
Packing group III

Warning
H302-H411
P264-P273-P270-P330-P301+P312a-P391

m-Dichlorobenzene > RPE - For analysis
RPE

Description .... Colourless or yellowish liquid
Identification ..... Positive
Density at 20° C ..... 1.283 ÷ 1.293
Refractive index at 20°C . 1.5435 ÷ 1.5485
Boiling point ..... 171 ÷ 173 °C
Residue on ignition ..... ≤ 100 ppm
Assay (GLC) ..... ≥ 99 %

Code	Size	Packaging	Notes
442353	100 ml	Glass bottle	

o-Dichlorobenzene
o-Diclorobenzolo • o-Dichlorobenzène • o-Diclorobenceno

Synonym:
1,2-Dichlorobenzene

$C_6H_4Cl_2$
Molecular Weight: 147
CAS: 95-50-1
EEC-N: 202-425-9

Classification transport
ONU: 1591
Transport Hazard class: 6.1
Packing group III

Warning
H302-H315-H319-H335-H410
P264-P273-P271-P304+P340-P305+P351+P338-P330

o-Dichlorobenzene > RPE - For analysis
RPE

Description ..... Clear liquid
Identification ..... Positive
Density at 20° C ..... 1.299 ÷ 1.311
Refractive index at 20°C ..... 1.5450 ÷ 1.5520
Water (K.F.) ..... ≤500 ppm
Residue on evaporation ..... ≤50 ppm
Acidity (HCl) ..... ≤50 ppm
Free chlorine ..... ≤1 ppm
Assay (GLC) ..... ≥99 %

Code	Size	Packaging	Notes
442301	500 ml	Glass bottle	

o-Dichlorobenzene > RE - Pure
RE

Description ..... Clear liquid
Identification ..... Positive
Assay (GLC) ..... ≥98 %

Code	Size	Packaging	Notes
337251	1 l	Glass bottle	

p-Dichlorobenzene

p-Diclorobenzolo • p-Dichlorobenzène • p-Diclorobenceno

Synonym: *1,4-Dichlorobenzene*

$C_6H_4Cl_2$
Molecular Weight: 147
CAS: 106-46-7
EEC-N: 203-400-5

Classification transport
ONU: 3077
Transport Hazard class: 9
Packing group III

Warning
H319-H351-H410
P264-P273-P280i-P305+P351+P338-P308+P313-P337+P313

p-Dichlorobenzene > RPE - For analysis

RPE

Description ..... White crystals
Identification ..... Positive
Melting point ..... 52.0 ÷ 54.0 ° C
Residue on ignition ..... ≤500 ppm
Assay (GLC) ..... ≥99 %

Code	Size	Packaging	Notes
442406	500 g	Plastic bottle	
442407	1 kg	Plastic bottle	

p-Dichlorobenzene > RE - Pure

RE

Description ..... White crystals
Identification ..... Positive
Melting point ..... 52 ÷ 56 ° C
Assay (GLC) ..... ≥ 96.0 %

Code	Size	Packaging	Notes
337307	1 kg	Plastic bottle	
337303	25 kg	Plastic bucket	

1,2-Dichlorobenzene-d4

1,2-Diclorobenzene-d4 • 1,2-Dichlorobenzène-d4 • 1,2-Diclorobenceno-d4

Synonym: *Tetradeutero-1,2-dichlorobenzene*

$C_6D_4Cl_2$
Molecular Weight: 151,03
CAS: 2199-69-1

Classification transport
ONU: 1591
Transport Hazard class: 6.1
Packing group III

Warning
H302-H315-H319-H335-H410
P264-P273-P271-P304+P340-P305+P351+P338-P330

1,2-Dichlorobenzene-d4 > RS - For NMR - min 99%

RS

Code	Size	Packaging	Notes
P5533A	5 ml	Glass ampoule	

1,2-Dichloroethane

sim-Etano dicloro • Sym-dichloroéthane • 1,2-Dicloroetano

Synonym: *Ethylene dichloride*

CH_2ClCH_2Cl
Molecular Weight: 98,97
CAS: 107-06-2
EEC-N: 203-458-1

Classification transport
ONU: 1184
Transport Hazard class: 3
Packing group II

Danger
H225-H302-H331-H315-H319-H350-H335-HA26
P210-P241-P264-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

1,2-Dichloroethane > RS - For HPLC - Isocratic Grade

RS

Clear,colourless liq.appearance ..... Conform
Identification ..... Conform
Colour ..... ≤ 10 Apha
Refractive index at 20°C ..... 1.443 - 1.447
Water content (K.F.) ..... ≤ 100 mg/Kg
UV transmittance at 240 nm ..... ≥ 20 %
UV transmittance at 245 nm ..... ≥ 55 %
UV transmittance at 250 nm ..... ≥ 78 %
UV transmittance at 255 nm ..... ≥ 90 %
UV transmittance at 260 nm ..... ≥ 98 %
Free acid (as HCl) ..... ≤ 5 mg/Kg
Assay (GC) ..... ≥ 99.8 %
Non volatile residue ..... ≤ 5 mg/Kg

Code	Size	Packaging	Notes
447191	1 l	Glass bottle	
447192	2.5 l	Glass bottle	

1,2-Dichloroethane > RS - SPECTROSOL - For optical spectroscopy

RS

Clear,colourless liq.appearance ..... Conform
Refractive index at 20°C ..... 1.443 - 1.447
Water content (K.F.) ..... ≤ 100 mg/Kg
Colour ..... ≤ 10 Hazen
UV transmittance at 225 nm ..... ≥ 10 %
UV transmittance at 230 nm ..... ≥ 50 %
UV transmittance at 240 nm ..... ≥ 90 %
UV transmittance at 250 nm ..... ≥ 95 %
UV transmittance at 260 nm ..... ≥ 99 %
Free acid (as HCl) ..... ≤ 5 mg/Kg
Assay (GC) ..... ≥ 99.8 %
Non volatile residue ..... ≤ 5 mg/Kg

Code	Size	Packaging	Notes
P0282716	1 l	Glass bottle	

1,2-Dichloroethane > RS - Anhydrous - For analysis

RS

Refractive index at 20°C ..... 1.443 - 1.447
Water content (K.F.) ..... ≤ 100 mg/Kg
Non volatile residue ..... ≤ 10 mg/Kg
Colour ..... ≤ 10 Hazen
Free acid (as HCl) ..... ≤ 5 mg/Kg
Assay (GC) ..... ≥ 99.8 %

Code	Size	Packaging	Notes
P0281010	200 ml	Bottle with septum	
P0281016	1 l	Glass bottle	
P0281021	2.5 l	Glass bottle	

1,2-Dichloroethane > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description ..... Clear liquid
Colour (APHA) ..... ≤10
Identification ..... Positive
Density at 20° C ..... 1.248 ÷ 1.264
Refractive index at 20°C. 1.4418 ÷ 1.4478
Boiling point ..... 83.0 ÷ 84.0 ° C
Distillation range (≥ 95%) ..... 82 ÷ 84 ° C
Acidity ..... ≤0.0003 meq/g
Water (K.F.) ..... ≤200 ppm
Residue on evaporation ..... ≤10 ppm
Free chlorine ..... ≤1 ppm
Subst. reducing KMnO4 ..... ≤10 ppm
Total phosphorus ..... ≤0.5 ppm
Total silicon ..... ≤0.05 ppm
Total sulphur ..... ≤0.5 ppm
Ca ..... ≤0.5 ppm
Cu ..... ≤0.05 ppm
Fe ..... ≤0.1 ppm
K ..... ≤0.2 ppm
Mg ..... ≤0.1 ppm
Na ..... ≤0.5 ppm
Pb ..... ≤0.02 ppm
Zn ..... ≤0.2 ppm
Assay (GLC) ..... ≥99.8 %

Code	Size	Packaging	Notes
447121000	1 l	Glass bottle	

1,2-Dichloroethane > RE - Pure

RE

Description ..... Clear liquid
Water content (K.F.) ..... ≤ 300 mg/Kg
Identification ..... Positive
Non volatile residue ..... ≤ 50 mg/Kg
Refractive index at 20°C. 1.4398 ÷ 1.4498
Colour ..... ≤ 10 Hazen
Colour (APHA) ..... ≤20
Free acid (as HCl) ..... ≤ 10 mg/Kg
Water (K.F.) ..... ≤300 ppm
Assay (GC) ..... ≥ 99.8 %
Assay (GLC) ..... ≥99.8 %
Residue on evaporation ..... ≤ 50 ppm
Acidity (HCl) ..... ≤ 10 ppm

Code	Size	Packaging	Notes
340151	1 l	Glass bottle	
P0280228	5 l	Plastic tank	
340155	34 kg	Metal drum	

2',7'-Dichlorofluorescein

2'-7'-Diclorofluoresceina • 2',7'-Dichlorofluoresceine • 2',7'-Diclorofluoresceína

$C_{20}H_{10}O_5Cl_2$
Molecular Weight: 401,21
CAS: 76-54-0
EEC-N: 200-968-6

Warning
H315-H319-H335
P264-P271-P280-P304+P340-P305+P351+P338-P312a

2',7'-Dichlorofluorescein > RPE - For analysis

RPE

Description ..... Ochre powder
Identification ..... Positive
Loss on drying (110°C) ..... ≤ 5 %
Assorbimento max. (in NaOH 0.1N) ... 501 ÷ 503 nm
Cu ..... ≤ 50 ppm
Fe ..... ≤ 50 ppm
Ni ..... ≤ 50 ppm
Pb ..... ≤ 50 ppm

Code	Size	Packaging	Notes
442541	10 g	Glass bottle	

Dichloromethane

Diclorometano • Dichlorométhane • Diclorometano

Synonym:
Methylene chloride

CH_2Cl_2
Molecular Weight: 84,93
CAS: 75-09-2
EEC-N: 200-838-9

Classification transport
ONU: 1593
Transport Hazard class: 6.1
Packing group III

Warning
H315-H319-H351-H335-H336-H373
P264-P271-P304+P340-P305+P351+P338-P308+P313-P312a

Dichloromethane > RS - For HPLC - Isocratic grade - Stabilized with amylene

RS

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 20° C ..... 1.322 ÷ 1.328
Refractive index at 20°C. 1.4214 ÷ 1.4274
Boiling point ..... 39.6 ÷ 40.1 ° C
Acidity ..... ≤ 0.0001 meq/g
Water (K.F.) ..... ≤100 ppm
Residue on evaporation ..... ≤2 ppm
Assay (GLC) ..... ≥99.9 %
U.V. Transmittance
At 235 nm ..... ≥ 40 %
at 240 nm ..... ≥70 %
at 250 nm ..... ≥96 %
at 260 nm ..... ≥99 %
Amylene ..... ≤ 60 ppm

Code	Size	Packaging	Notes
412621000	1 l	Glass bottle	
412622000	2.5 l	Glass bottle	

Dichloromethane > RS - For HPLC - Isocratic grade - Stabilized with ethanol

RS

Description ..... Clear colourless liquid
Identification ..... Positive
Boiling point..... 39.55 ÷ 40.05 °C
Density at 20°C ..... 1.322 ÷ 1.328
Refractive index at 20°C. 1.4214 ÷ 1.4274

Acidity (Formic acid) ..... ≤ 5 ppm
Residue on evaporation ..... ≤ 5 ppm
Ethanol ..... 0.1 ÷ 0.4 %
Water (K.F.) ..... ≤ 100 ppm

Transmittance U.V.
at 235 nm ..... ≥ 40 %
at 240 nm ..... ≥ 75 %
at 245 nm ..... ≥ 90 %
at 255 nm ..... ≥ 96 %
at 260 nm ..... ≥ 99 %
Assay (GLC) ..... ≥ 99.9 %
Filtered at 0.2 µm

Code	Size	Packaging	Notes
412662	1 l	Glass bottle	
412661	2.5 l	Glass bottle	

Dichloromethane > RS - For preparative HPLC - Stabilized with amylene

RS

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 20° C ..... 1.322 ÷ 1.328
Refractive index at 20°C. 1.4214 ÷ 1.4274

Boiling point..... 39.6 ÷ 40.1 ° C
Water (K.F.) ..... ≤500 ppm
Residue on evaporation ..... ≤5 ppm
Alcalinity..... ≤0.0002 meq/g

Assay (GLC) ..... ≥99.5 %
U.V. Transmittance
at 240 nm ..... ≥50 %
at 260 nm ..... ≥98 %

Amylene ..... 20 ÷ 60 ppm

Code	Size	Packaging	Notes
463281	2.5 l	Glass bottle	

Dichloromethane > RS - For preparative HPLC - Stabilized with ethanol

RS

Description ..... Clear colourless liquid
Colour ..... ≤ 10 APHA
Identity (IR)..... Positive
Density at 20°C ..... 1.322 ÷ 1.328

Refractive index at 20°C. 1.4214 ÷ 1.4274
Boiling point..... 39.3 ÷ 40.3 °C
Alkalinity (NH3)..... ≤ 5 ppm
Water (K.F.) ..... ≤ 500 ppm

Residue on evaporation ..... ≤ 5 ppm
Assay (GLC) ..... ≥ 99.5 %
Transmittance U.V.
at 240 nm ..... ≥ 50 %
at 260 nm ..... ≥ 98 %
Filtered at 0.2 µm

Code	Size	Packaging	Notes
463291	2.5 l	Glass bottle	

Dichloromethane > RS - ATRASOL - For analysis of volatile traces - Stabilized with amylene

RS

Refractive index at 20°C..... 1.422 - 1.426
Water content (K.F.) ..... ≤ 100 mg/Kg
Colour ..... ≤ 10 Hazen
Free acid (as HCl) ..... ≤ 5 mg/Kg

Chloroform..... ≤ 50 mg/Kg
Non volatile residue ..... ≤ 3 mg/Kg
Carbon tetrachloride ..... ≤ 20 mg/Kg
Assay (GC) ..... ≥ 99.95 %

Stabilizer (Amylene) ..... 30 - 60 mg/Kg
GC (FID) - NC Atrasol ..... Conform
GC-ECD.Individual peak (Lindane) .. ≤ 2 ng/l

Retention time trichlorobenzene to mirex
GC-FID.Individ. peak (hexadecane) . ≤ 5 µg/l
Retention time range over toluène
PAH test (according to ISO 17993) .. Passes test

Code	Size	Packaging	Notes
P02932A16	1 l	Glass bottle	
P02932A21	2.5 l	Glass bottle	

Dichloromethane > RS - ATRASOL - For analysis of volatile traces - Stabilized with ethanol

RS

Refractive index at 20°C..... 1.422 - 1.426
Water content (K.F.) ..... ≤ 100 mg/Kg
Colour ..... ≤ 10 Hazen
Free acid (as HCl) ..... ≤ 5 mg/Kg

Chloroform..... ≤ 40 mg/Kg
Non volatile residue ..... ≤ 3 mg/Kg
Carbon tetrachloride ..... ≤ 20 mg/Kg
Assay (GC) (without stabilizer) ... ≥ 99.95 %

Stabilizer (Ethanol)..... 0.1 - 0.4 % m/m
GC (FID) - NC Atrasol ..... Conform
GC-ECD.Individual peak (Lindane) .. ≤ 2 ng/l

Retention time trichlorobenzene to mirex
GC-FID.Individ. peak (hexadecane) . ≤ 5 µg/l
Retention time range over toluène
PAH test (according to ISO 17993) .. Passes test

Code	Size	Packaging	Notes
P02932E16	1 l	Glass bottle	
P02932E21	2.5 l	Glass bottle	

Dichloromethane > RS - PESTIPUR - For pesticide analysis - Stabilized with amylene

RS

Description ..... Clear liquid
Identification ..... Positive
Colour ..... ≤ 10 hazen

Assay (GLC) ..... ≥ 99.9 %
Water ..... ≤ 0.01 %
Not volatile residue ..... ≤ 5 mg/kg

Free acid (as HCl) ..... ≤ 5 mg/kg
GC-ECD (Lindane standard) ..... ≤ 3 ng/l
GC-NPD (Ethylparathion standard) .. ≤ 3 ng/l

Stabilizer (Amylene) ..... 30 - 50 mg/Kg
PAH test (according to ISO 17993) .. Passes test

Code	Size	Packaging	Notes
442291	1 l	Glass bottle	
442292000	2.5 l	Glass bottle	

Dichloromethane > RS - PESTIPUR - For pesticide analysis - Stabilized with ethanol

RS

Refractive index at 20°C.....1.422 - 1.426
Water content (K.F.).....≤ 100 mg/Kg
Colour .....≤ 10 Hazen
Stabilizer (Ethanol).....0.1 - 0.4 % m/m

Free acid (as HCl).....≤ 5 mg/Kg
Non volatile residue.....≤ 5 mg/Kg
Assay (GC) (without stabilizer) ..... ≥ 99.9 %
GC-ECD.Individual peak (Lindane) ..≤ 3 ng/l

Retention time trichlorobenzene to mirex
GC-NPD.Individual peak (Ethylparathion)≤ 3 ng/l

Retention time Atrazin to Coumaphos
PAH test (according to ISO 17993) ..Passes test

Code	Size	Packaging	Notes
442261	1 l	Glass bottle	
442262	2.5 l	Glass bottle	

Dichloromethane > RS - SPECTROSOL - For optical spectroscopy - Stabilized with amylene

RS

Description .....Clear colourless liquid
Colour (APHA) ..... ≤10
Water content (K.F.).....≤ 100 mg/Kg
Identification (I.R.).....Positive
Non volatile residue.....≤ 5 mg/Kg
Density at 20° C .....1.322 ÷ 1.328

Refractive index at 20°C.1.4214 ÷ 1.4274
Boiling point.....39.6 ÷ 40.1 ° C
Residue on evaporation .....≤5 ppm
Acidity .....≤0.0005 meq/g
Alcalinity.....≤0.0002 meq/g
Assay (GLC) ..... ≥99.9 %

Fluorescence
at 254 nm .....≤2 ppb
at 365 nm .....≤2 ppb
U.V. Transmittance
at 235 nm ..... ≥35 %
at 240 nm ..... ≥70 %

at 245 nm ..... ≥90 %
at 250 nm ..... ≥95 %
at 260 nm ..... ≥99 %
Amylene ..... 20 ÷ 60 ppm

Code	Size	Packaging	Notes
442371	1 l	Glass bottle	

Dichloromethane > RS - SPECTROSOL - For optical spectroscopy - Stabilized with ethanol

RS

Description .....Clear colourless liquid
Colour (APHA) ..... ≤10
Identification (I.R.).....Positive
Density at 20° C .....1.322 ÷ 1.328
Refractive index at 20°C.1.4214 ÷ 1.4274
Boiling point.....39.6 ÷ 40.1 ° C

Water (K.F.).....≤100 ppm
Residue on evaporation .....≤5 ppm
Acidity .....≤0.0005 meq/g
Alcalinity.....≤0.0002 meq/g
Assay (GLC) ..... ≥99.9 %

Fluorescence
at 254 nm .....≤2 ppb
at 365 nm .....≤2 ppb
U.V. Transmittance
at 235 nm ..... ≥35 %
at 240 nm ..... ≥70 %

at 245 nm ..... ≥90 %
at 250 nm ..... ≥95 %
at 260 nm ..... ≥99 %
Stabilizer (Ethanol).....0.1 ÷ 0.4 %

Code	Size	Packaging	Notes
463025	1 l	Glass bottle	

Dichloromethane > RS - Anhydrous - For analysis - Stabilized with amylene

RS

Refractive index at 20°C..... 1.422 - 1.426
Water content (K.F.).....≤ 50 mg/Kg
Non volatile residue.....≤ 10 mg/Kg

Colour .....≤ 10 Hazen
Assay (GC).....≥ 99.95 %
Stabilizer (Amylene).....30 - 60 mg/Kg

Free acid (as HCl).....≤ 3 mg/Kg
Carbon tetrachloride.....≤ 20 mg/Kg
Chloroform.....≤ 50 mg/Kg

Code	Size	Packaging	Notes
P02910A10	200 ml	Bottle with septum	
P02910AT10	200 ml	Bottle with septum	On molecular sieves 4A
P02910A16	1 l	Glass bottle	
P02910AT16	1 l	Glass bottle	On molecular sieves 4A
P02910A21	2.5 l	Glass bottle	

Dichloromethane > RS - Anhydrous - For analysis - Stabilized with ethanol

RS

Refractive index at 20°C..... 1.422 - 1.426
Water content (K.F.).....≤ 50 mg/Kg
Non volatile residue.....≤ 10 mg/Kg

Colour .....≤ 10 Hazen
Assay (GC) (without stabilizer) .....≥ 99.95 %
Stabilizer (Ethanol)..... 0.1 - 0.4 % m/m

Free acid (as HCl).....≤ 3 mg/Kg
Carbon tetrachloride.....≤ 20 mg/Kg
Chloroform.....≤ 40 mg/Kg

Code	Size	Packaging	Notes
P02910E10	200 ml	Bottle with septum	
P02910E16	1 l	Glass bottle	
P02910E21	2.5 l	Glass bottle	

Dichloromethane > RS - RSE - For electronic use - Stabilized with amylene

RS

Description ..... Clear liquid
Colour (APHA) ..... ≤10
Identification ..... Positive
Density at 20° C ..... 1.322 ÷ 1.328
Boiling point..... 39.6 ÷ 40.1 ° C
Resistivity ..... ≥1 Mohm.cm
Assay (GLC) ..... ≥99.5 %
Water (K.F.) ..... ≤100 ppm
Residue on evaporation ..... ≤5 ppm
Acidity (HCl) ..... ≤10 ppm
Alcalinity (NH3)..... ≤1 ppm
Chloride..... ≤0.5 ppm
Free chlorine..... ≤0.2 ppm

Phosphate ..... ≤0.5 ppm
Heavy metals (Pb)..... ≤0.1 ppm
Ag ..... ≤0.02 ppm
Al ..... ≤0.05 ppm
As ..... ≤0.01 ppm
Au ..... ≤0.05 ppm
B..... ≤0.01 ppm
Ba ..... ≤0.1 ppm
Be ..... ≤0.02 ppm
Bi ..... ≤0.02 ppm
Ca ..... ≤0.2 ppm
Cd ..... ≤0.01 ppm
Co ..... ≤0.01 ppm

Cr..... ≤0.01 ppm
Cu ..... ≤0.01 ppm
Fe ..... ≤0.1 ppm
Ga..... ≤0.02 ppm
In ..... ≤0.02 ppm
K..... ≤0.1 ppm
Li ..... ≤0.02 ppm
Mg ..... ≤0.1 ppm
Mn ..... ≤0.01 ppm
Mo ..... ≤0.05 ppm
Na..... ≤0.2 ppm
Ni..... ≤0.01 ppm
Pb ..... ≤0.02 ppm

Pt..... ≤0.05 ppm
Sb ..... ≤0.01 ppm
Sn ..... ≤0.02 ppm
Sr..... ≤0.02 ppm
Ti ..... ≤0.05 ppm
Tl ..... ≤0.05 ppm
V..... ≤0.05 ppm
Zn ..... ≤0.05 ppm
Zr..... ≤0.05 ppm
Stabilized with amylene ..... 20 ÷ 60 ppm

Code	Size	Packaging	Notes
463162	1 l	Glass bottle	
463161	2.5 l	Glass bottle	

Dichloromethane > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP - Stabilized with amylene

RPE

Description ..... Clear liquid
Colour (APHA) ..... ≤10
Identification (I.R.)..... Conform
Ready carbonizable substances..... Conform
Alcohol miscibility..... Complete
Diethyl ether miscib. ..... Complete
Density at 20° C ..... 1.322 ÷ 1.328
Refractive index at 20°C. 1.4214 ÷ 1.4274

Boiling point..... 39.6 ÷ 40.1 ° C
Water (K.F.) ..... ≤100 ppm
Residue on evaporation ..... ≤10 ppm
Acidity ..... ≤0.0003 meq/g
Amylene ..... 20 ÷ 60 ppm
Chloride..... ≤1 ppm
Al ..... ≤0.5 ppm
B..... ≤0.02 ppm

Ba..... ≤0.1 ppm
Ca..... ≤0.5 ppm
Cd..... ≤0.05 ppm
Co..... ≤0.02 ppm
Cr..... ≤0.02 ppm
Cu..... ≤0.02 ppm
Fe ..... ≤0.1 ppm
Mg ..... ≤0.1 ppm

Mn ..... ≤0.02 ppm
Ni..... ≤0.02 ppm
Pb ..... ≤0.1 ppm
Sn ..... ≤0.1 ppm
Zn ..... ≤0.1 ppm
Assay (GLC) ..... ≥99.9 %
Free halogens ..... Conform

Code	Size	Packaging	Notes
463311	1 l	Glass bottle	
463314	2.5 l	Glass bottle	
463319	5 l	Plastic tank	
524319	10 l	Plastic tank	
463315	35 kg	Metal drum	
524314	200 l	Metal drum	

Dichloromethane > RPE - For analysis - ACS - Stabilized with ethanol

RPE

Description ..... Clear colourless liquid
Color ..... ≤10 APHA
Density at 20°C ..... 1.322 ÷ 1.328
Refractive index at 20°C. 1.4214 ÷ 1.4274
Boiling point..... 39.3 ÷ 40.3 °C
Acidity (Hydrochloric ac.)..... ≤ 3 ppm
Chloride (Cl) ..... ≤ 1 ppm
Ethyl alcohol ..... ≤ 0.2 %

Free chlorine..... ≤ 0.1 ppm
Identity (IR)..... Positive
Read. carboniz. subs..... Conform
Residue on evaporation ..... ≤ 10 ppm
Water (K.F.) ..... ≤ 100 ppm
Assay (GLC) ..... ≥ 99.9 %
Al (Aluminium)..... ≤ 0.5 ppm
B (Boron) ..... ≤ 0.02 ppm

Ba (Barium)..... ≤ 0.1 ppm
Ca (Calcium) ..... ≤ 0.5 ppm
Cd (Cadmium)..... ≤ 0.05 ppm
Co (Cobalt)..... ≤ 0.02 ppm
Cr (Chromium) ..... ≤ 0.02 ppm
Cu (Copper) ..... ≤ 0.02 ppm
Fe (Iron)..... ≤ 0.1 ppm
Mg (magnesium) ..... ≤0.1 ppm

Mn (manganese) ..... ≤0.02 ppm
Ni (Nickel) ..... ≤ 0.02 ppm
Pb (Lead)..... ≤ 0.1 ppm
Sn (Tin)..... ≤0.1 ppm
Zn (Zinc) ..... ≤ 0.1 ppm

Code	Size	Packaging	Notes
463001	1 l	Glass bottle	
463003	2.5 l	Glass bottle	
463002	5 l	Plastic tank	
463008	250 kg	Metal drum	

Dichloromethane > ERBApharm - According to pharmacopoeia : NF - Stabilized with ethanol

ERBApharm

Description ..... Conform
Identification (I.R.)..... Positive
Density d25/25 ..... 1,318 ÷ 1,322

Residue on evaporation ..... ≤ 20 ppm
Acidity ..... ≤ 10 ppm
Heavy metals (Pb)..... ≤ 1 ppm

Free chlorine..... Conform USP-NF
Water (K.F.) ..... ≤ 200 ppm
Assay (GLC) ..... ≥ 99.0 %

Ethanol ..... # 0,2 %

Code	Size	Packaging	Notes
354501	1 l	Glass bottle	

Dichloromethane > ERBApharm - According to pharmacopoeia : Ph.Eur.-NF - Stabilized with amylene

ERBApharm

Description ..... Clear colourless liquid
Colour ..... ≤ 10 APHA
Identification ..... Positive
Appearance of solution ..... Clear colourless liquid Ph. Eur.
Density at 20°C ..... 1.320 - 1.332
Density at 25°C ..... 1.318 ÷ 1.322
Refractive index at 20°C ..... 1.423 - 1.425
Acidity ..... Pass test Ph.Eur.
Water (K.F.) ..... ≤ 200 ppm
Residue on evaporation ..... ≤ 20 ppm
Heavy metals (Pb) ..... ≤ 1 ppm
Free chlorine ..... Conform USP-NF
Related substances (CPG) ..... ≤ 0.1 %
Assay (GLC) ..... ≥ 99.9 %
Amylene ..... 20 ÷ 60 ppm
Carbon tetrachloride ..... ≤ 10 ppm (v/v)
Chloroforme ..... ≤ 50 ppm (v/v)
Origin (BSE/TSE) ..... Synthesis

Code	Size	Packaging	Notes
337331	1 l	Glass bottle	
337333	2.5 l	Glass bottle	
337335	25 l	Metal drum	
337337	200 l	Metal drum	

Dichloromethane > ERBApharm - According to pharmacopoeia : Ph.Eur. - Stabilized with ethanol

ERBApharm

Description ..... Conform Ph.Eur.
Colour ..... ≤ 10 APHA
Identification ..... Positive Ph.Eur.
Appearance of solution ..... Clear colourless liquid Ph.Eur.
Density at 20°C ..... 1.320 ÷ 1.332
Indice di rifraz. ..... 1.423 ÷ 1.425
Acidity ..... Conform Ph.Eur.
Residue on evaporation ..... ≤ 10 ppm
Water (K.F.) ..... ≤ 100 ppm
Free chlorine ..... Conform Ph.Eur.
Heavy metals (Pb) ..... ≤ 1 ppm
Related compounds ..... ≤ 0.1 %
Assay (GLC) ..... ≥ 99.95 %
Ethanol ..... ≤ 2.0 %
Amylene ..... ≤ 0.03 %
Carbon tetrachloride ..... ≤ 10 ppm (v/v)
Chloroforme ..... ≤ 50 ppm (v/v)

Code	Size	Packaging	Notes
525320	2.5 l	Glass bottle	
525321	200 l	Metal drum	

Dichloromethane > RE - Pure - stabilized with amylene

RE

Description ..... Clear colourless liquid
Colour ..... ≤ 10 APHA
Density at 20°C ..... 1.320 ÷ 1.330
Refractive index at 20°C. 1.4194 ÷ 1.4294
Boiling point ..... 39.1 ÷ 40.6 °C
Acidity (HCl) ..... ≤ 10 ppm
Residue on evaporation ..... ≤ 20 ppm
Water (K.F.) ..... ≤ 200 ppm
Assay (GLC) ..... ≥ 99.8 %
Amylene ..... 20 ÷ 60 ppm

Code	Size	Packaging	Notes
528461	5 l	Plastic tank	
528464	10 l	Plastic tank	
528463	25 l	Metal drum	
528462	200 l	Metal drum	

Dichloromethane > RE - Pure - stabilized with ethanol

RE

Description ..... Clear colourless liquid
Color ..... <10 APHA
Density at 20°C ..... 1.32÷1.33
Refractive index at 20°C ... 1.4194÷1.4294
Boiling point ..... 39.3÷40.3 °C
Acidity (hydrochloric acid) ..... ≤ 5 ppm
Residue on evaporation ..... ≤20 ppm
Water (K.F.) ..... ≤ 100 ppm
Alcohol and ether miscibility ..... Complete
Assay (GLC) ..... ≥99.8 %
Ethanol (stab) ..... ~0,2 %

Code	Size	Packaging	Notes
528377	2.5 l	Glass bottle	
337315	5 l	Metal tank	
528372	5 l	Plastic tank	
528379	10 l	Plastic tank	
528370	25 l	Metal drum	
528371	200 l	Metal drum	

Dichloromethane > RE - Pure - Stabilized with cyclohexane

RE

Description ..... Clear colourless liquid
Colour ..... ≤ 10 APHA
Assay (GLC) ..... ≥ 99.5 %
Density at 20°C ..... 1.320 ÷ 1.330
Refractive index at 20°C. 1.4194 ÷ 1.4294
Boiling point ..... 39.0 ÷ 40.5 °C
Acidity ..... ≤ 1 %
Residue on evaporation ..... ≤ 5 ppm
Water (K.F.) ..... ≤ 500 ppm
Methyl alcohol ..... ≤ 500 ppm
Ethyl alcohol ..... ≤ 500 ppm
Chloroform ..... ≤ 1 %
Other impurities ..... ≤ 0.5 %
Cyclohexane ..... 0.0165 ÷ 0.0660 %(v/v)

Code	Size	Packaging	Notes
508370	1 l	Glass bottle	
508374	5 l	Plastic tank	

Dichloromethane acidified with 1% hydrochloric acid

Diclorometano acidificato con acido cloridrico 1% • Dichlorométhane acidifié avec 1% d'acide chlorhydrique • Diclorometano acidificado con ácido clorhídrico 1%

Synonym: *Methylene chloride*

CH_2Cl_2
Molecular Weight: 84,93
CAS: 75-09-2
EEC-N: 200-838-9

Classification transport
ONU: 1593
Transport Hazard class: 6.1
Packing group III

Warning
H315-H319-H351-H335-H336-H373
P264-P271-P304+P340-P305+P351+P338-P308+P313-P312a

Dichloromethane acidified with 1% hydrochloric acid > RS - For analysis according to Ph. Eur. Chap. 4.1.1 — RS

Code	Size	Packaging	Notes
611055901	100 ml	Glass bottle	Ref Ph.Eur 1055901

Dichloromethane-d2

Diclorometano-d2 • Dichlorométhane-d2 • Diclorometano-d2

Synonym: *Dideuteromethylenechloride*

CD_2Cl_2
Molecular Weight: 86,95
CAS: 1665-00-5
EEC-N: 216-776-0

Classification transport
ONU: 1593
Transport Hazard class: 6.1
Packing group III

Warning
H351
P280-P201-P202-P308+P313-P405-P501a

Dichloromethane-d2 > RS - For NMR - min 99.6% — RS

Code	Size	Packaging	Notes
P5330	10 x 0.6 ml	Glass ampoule	
P5339	10 x 0.75 ml	Glass ampoule	
P5334A	10 ml	Glass ampoule	
P5335	25 ml	Glass bottle	

2,6-Dichlorophenolindophenol sodium salt

2,6-Diclorofenoloindofenolo sale sodico • 2,6-Dichlorophénolindophénol sel de sodium • 2,6-Diclorofenol-indofenol sal sódica

Synonym: *2,6-Dichloro-N-(4-hydroxyphenyl) -1,4-benzoquinoneimine sodium salt*

$C_{12}H_7Cl_2NO_2.Na$
Molecular Weight: 326,09
CAS: 620-45-1
EEC-N: 210-640-4

2,6-Dichlorophenolindophenol sodium salt > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP — RPE

Description ..... Dark green powder
Identification ..... Positive
Colouring interferences..... Conform
Loss on drying 120° C..... ≤12 %

Code	Size	Packaging	Notes
442508	5 g	Glass bottle	
442509	25 g	Glass bottle	

For the determination of ascorbic acid

2,6-Dichloroquinone-4-chlorimide

2,6-Diclorochinone-4-clorimmide • 2,6-Dichloroquinone-4-chloroimide • 2,6-Dicloroquinona-4-clorimida

Synonym: *Gibb's reagent*
N-2,6-trichloro-p-benzoquinoneimide

CIN:CCH:CClCOCCl:CH
Molecular Weight: 210,45
CAS: 101-38-2
EEC-N: 202-937-2

Classification transport
ONU: 3224
Transport Hazard class: 4.1
Packing group II

Warning
H242-H315-H319-H335
P210-P264-P271-P304+P340-P305+P351+P338-P410

2,6-Dichloroquinone-4-chlorimide > RPE - For analysis — RPE

Description ..... Yellow orange powder
Identification ..... Positive
Melting point..... 65.0 ÷ 67.0 ° C
Residue on ignition.....≤0.1 %
Phenol sensitivity..... ≥1 µg/ml
Assay (argentimetric).....≥98 %

Code	Size	Packaging	Notes
442458	5 g	Glass bottle	
442459	25 g	Glass bottle	

For spectrophotometric determination of vitamin B6

n,n'-Dicyclohexylcarbodiimide

n,n'-Dicicloesilcarbodiimmide • n,n'-Dicyclohexylcarbodiimide • n,n'-Diciclohexilcarbodiimida

Synonym:
DCC

$C_6H_{11}N{:}C{:}NC_6H_{11}$
Molecular Weight: 206,33
CAS: 538-75-0
EEC-N: 208-704-1

Classification transport
ONU: 1759
Transport Hazard class: 8
Packing group III

Danger
H302-H311-H318-H317
P264-P261-P280h-P280i-P305+P351+P338-P330

n,n'-Dicyclohexylcarbodiimide > RPE - For analysis

RPE

Description ..... Whitish or yellowish crystals
Identification ..... Positive
Melting point..... 34.0 ÷ 37.0 ° C
Residue on ignition..... ≤100 ppm
Assay (GC) ..... ≥ 99.0% %

Code	Size	Packaging	Notes
442175	10 g	Glass bottle	

Diethanolamine

Dietanolammina • Diéthanolamine • Dietanolamina

Synonym:
2,2'-Iminodiethanol
Bis(2-hydroxyethyl)amine

$(CH_2OHCH_2)_2NH$
Molecular Weight: 105,14
CAS: 111-42-2
EEC-N: 203-868-0

Danger
H302-H315-H318-H373
P264-P260-P305+P351+P338-P314-P330-P332+P313

Diethanolamine > RPE - For analysis

RPE

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 30° C ..... 1.085 ÷ 1.091
Refract. index at 30° C ... 1.4723 ÷ 1.4783
Melting point..... 27.8 ÷ 28.3 ° C
Water (K.F.) ..... ≤0.5 %
Monoethanolamine..... ≤0.5 %
Residue on ignition..... ≤50 ppm
Triethanolamine..... ≤0.5 %
Assay (alkalimetric)..... ≥99 %
Assay (GLC) ..... ≥99 %

Code	Size	Packaging	Notes
442554	100 g	Glass bottle	
442557	1 kg	Glass bottle	

Diethanolamine > ERBApharm - According to pharmacopoeia : USP-NF

ERBApharm

Description ..... Clear colourless liquid
Identification ..... Positive
Refract. index at 30° C ..... 1.473 ÷ 1.476
Water (K.F.) ..... ≤0,15 %
Triethanolamine..... ≤1.0 %
Assay (alkalimetric)..... 98,5÷101,0 %
Origin (BSE/TSE)..... Synthesis
Residual solvents (Current ICH)..... Conform

Code	Size	Packaging	Notes
337801	220 kg	Metal drum	

Diethylamine

Dietilammina • Diéthylamine • Dietilamina

$(C_2H_5)_2NH$
Molecular Weight: 73,14
CAS: 109-89-7
EEC-N: 203-716-3

Classification transport
ONU: 1154
Transport Hazard class: 3
Packing group II

Danger
H225-H302-H311-H332-H314-H335
P210-P241-P264-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

Diethylamine > RPE - For analysis

RPE

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 20° C ..... 0.705 ÷ 0.708
Refractive index at 20°C. 1.3840 ÷ 1.3900
Boiling point..... 55 ÷ 56 ° C
Residue on evaporation ..... ≤50 ppm
Assay (GLC) ..... ≥99 %

Code	Size	Packaging	Notes
442756	1 l	Glass bottle	

Diethylamine > RE - Pure

RE

Description ..... Clear colourless liquid
Identification ..... Positive
Refractive index at 20°C. 1.3840 ÷ 1.3900
Assay (GLC) ..... ≥ 99 %
Boiling point..... 55 ÷ 56 °C
Water (K.F.) ..... ≤ 0.2 %
Density at 20°C ..... 0.705 ÷ 0.708

Code	Size	Packaging	Notes
337501	1 l	Glass bottle	

Diethyl carbonate

Dietilcarbonato • Diéthylcarbonate • Dietilcarbonato

Synonym:
Boc20

$(C_2H_5)_2CO_3$
Molecular Weight: 118,13
CAS: 105-58-8
EEC-N: 203-311-1

Classification transport
ONU: 2366
Transport Hazard class: 3
Packing group III

Warning
H226
P210-P241-P243-P280a-P303+P361+P353-P403+P235

Diethyl carbonate > RPE - For analysis

RPE

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 20° C ..... 0.971 ÷ 0.979
Refractive index at 20°C ..... 1.3820 ÷ 1.3870
Boiling point ..... 125.3 ÷ 126.8 ° C
Water (K.F.) ..... ≤500 ppm
Residue on evaporation ..... ≤20 ppm
Chloride ..... ≤5 ppm
Assay (GLC) ..... 99 ÷ 100 %

Code	Size	Packaging	Notes
443056	1 l	Glass bottle	

Diethylene glycol

Glicol dietilenico • Glycol diéthylénique • Glicol dietilénico

Synonym:
2,2'-Oxydiethanol
2-Hydroxyethyl ether

$(HOCH_2CH_2)_2O$
Molecular Weight: 106,12
CAS: 111-46-6
EEC-N: 203-872-2

Warning
H302
P264-P270-P330-P301+P312a-P501a

Diethylene glycol > RPE - For analysis

RPE

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 20° C ..... 1.115 ÷ 1.119
Refractive index at 20°C. 1.4450 ÷ 1.4500
Boiling point ..... 240 ÷ 252 ° C
Water (K.F.) ..... ≤0.3 %
Assay (GLC) ..... ≥98 %

Code	Size	Packaging	Notes
443255	1 l	Glass bottle	
443253	2.5 l	Glass bottle	
443252	25 kg	Drum	

Hygroscopic product. Store well sealed in a dry place

Diethylene glycol > RE - Pure

RE

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 20° C ..... 1.112 ÷ 1.122
Refractive index at 20°C. 1.4425 ÷ 1.4525
Boiling point ..... 240 ÷ 252 ° C
Assay (GLC) ..... ≥99 %
Water ..... ≤0.3 %

Code	Size	Packaging	Notes
346301	1 l	Glass bottle	
346303	2.5 l	Glass bottle	
346304	30 kg	Metal drum	

Diethylene glycol butyl ether ▶ 2-(2-Butoxyethoxy)ethanol

Diethylene glycol dimethyl ether

Glicol dietilenico dimetiletere • Glycol diéthylénique diméthyléther • Glicol dietilénico dimetiléter

Synonym:
Diglyme
2-Methoxyethyl ester

$(CH_3OCH_2CH_2)_2O$
Molecular Weight: 134,17
CAS: 111-96-6
EEC-N: 203-924-4

Danger
H226-H360FD-HEU019-HA26
P210-P241-P243-P280a-P303+P361+P353-P403+P235

Diethylene glycol dimethyl ether > RPE - For analysis

RPE

Description ..... Clear colourless liquid
Identification ..... Positive
Water miscibility ..... Conform
Benzene miscibility ..... Complete
Diethyl ether miscib. ..... Complete
Density at 20° C ..... 0.942 ÷ 0.950
Refractive index at 20°C. 1.4056 ÷ 1.4096
Boiling point ..... 160.0 ÷ 162.0 °C
Water (K.F.) ..... ≤0.1 %
Acidity (acetic acid) ..... ≤600 ppm
Alcalinity (NH3) ..... ≤0.85 ppm
Carbonyl Compounds (CO) ..... ≤500 ppm
Heavy metals (Pb) ..... ≤2 ppm
Peroxides (H2O2) ..... ≤250 ppm
Residue on ignition ..... ≤20 ppm
Fe ..... ≤2 ppm
Assay (GLC) ..... ≥99 %

Code	Size	Packaging	Notes
453861	1 l	Glass bottle	

Diethylene glycol dimethyl ether > RE - Pure

RE

Refractive index at 20°C.....1.406 - 1.41 | Water content (K.F.).....≤ 500 mg/Kg | Colour ..... ≤ 10 Hazen | Assay (GC)..... ≥ 99.8 %

Code	Size	Packaging	Notes
P0410228	5 l	Metal tank	
P0410248	25 l	Metal drum	

Diethylene oxide ▶ 1,4-Dioxane

Diethylenetriaminepentacetic acid

Acido dietilentriamminopentacetico • Acide diéthylènetriaminepentacétique • Acido dietilentriaminopentaacético

Synonym:
(Carboxymethylimino)bis(ethylenenitrilo)tetraacetic acid
Pentetic acid

$C_{13}H_{23}O_6N_3$
Molecular Weight: 393,35
CAS: 67-43-6
EEC-N: 200-652-8

Classification transport
ONU: 3077
Transport Hazard class: 9
Packing group III

Danger
H301-H319-H411
P264-P273-P280-P305+P351+P338-P301+P310a-P330

Diethylenetriaminepentacetic acid > RPE - For analysis

RPE

Description .....White crystalline powder | Identification ..... Positive | Assay (acidimetric) .....≥ 98.0 %

Code	Size	Packaging	Notes
405192	250 g	Glass bottle	

For the preparation of complexes: Na2Fe(DPTA), Na2[Cr(DPTA)] et H2[Gd(DPTA)]

Diethyl ether

Dietiletere • Ether éthylique • Dietileter

Synonym:
Ethyl ether

$CH_3CH_2OCH_2CH_3$
Molecular Weight: 74,12
CAS: 60-29-7
EEC-N: 200-467-2

Classification transport
ONU: 1155
Transport Hazard class: 3
Packing group I

Danger
H224-H302-H336-HEU019-HEU066
P210-P241-P264-P303+P361+P353-P304+P340-P403+P235

Diethyl ether > RS - For HPLC - Isocratic grade - Not stabilized

RS

Clear,colourless liq.appearance .....Conform
Identification .....Conform
Colour .....≤ 10 Apha
Refractive index at 20°C.....1.35 - 1.354
Water content (K.F.) .....≤ 100 mg/Kg
Free acid (as CH3COOH).....≤ 30 mg/Kg
Peroxides (as H2O2).....≤ 60 mg/Kg
Non volatile residue.....≤ 5 mg/Kg
UV transmittance at 220 nm ..... ≥ 10 %
UV transmittance at 230 nm ..... ≥ 45 %
UV transmittance at 250 nm ..... ≥ 75 %
UV transmittance at 280 nm ..... ≥ 92 %
UV transmittance at 300 nm ..... ≥ 98 %
Assay (GC)..... ≥ 99.7 %

Code	Size	Packaging	Notes
412671	1 l	Glass bottle	
412672	2.5 l	Glass bottle	

Diethyl ether > RS - PESTIPUR - For pesticide analysis - Not stabilized

RS

Description ..... Clear liquid
Colour .....≤ 10 hazen
Identification ..... Positive
Water .....≤ 0.02 %
Acidity (acetic acid).....≤ 30 ppm
Not volatile residue.....≤ 5 ppm
Peroxides (H2O2) .....≤ 60 ppm
GC-ECD (Lindano) .....≤ 3 ng/l
Assay (GLC) .....≥ 99.7 %

Code	Size	Packaging	Notes
447651	1 l	Glass bottle	
447652	2.5 l	Glass bottle	

Diethyl ether > RS - SPECTROSOL - For optical spectroscopy - Not stabilized

RS

Description .....Clear liquid
Refractive index at 20°C.....1.35 - 1.354
Colour (APHA) ..... ≤10
Water content (K.F.).....≤ 100 mg/Kg
Identification ..... Positive
Density at 20° C .....0.712 ÷ 0.714
Peroxides (as H2O2).....≤ 60 mg/Kg
Boiling point.....34.4 ÷ 34.9 ° C
Water (K.F.).....≤100 ppm
Residue on evaporation .....≤5 ppm
Acidity .....≤0.0005 meq/g
Alcalinity.....≤0.0002 meq/g
Peroxides (H2O2) .....≤60 ppm
Assay (GC)..... ≥ 99.7 %
U.V. Transmittance
at 220 nm ..... ≥10 %
at 230 nm ..... ≥45 %
at 250 nm ..... ≥75 %
at 280 nm ..... ≥92 %
at 300 nm ..... ≥98 %

Code	Size	Packaging	Notes
447593	1 l	Glass bottle	

Diethyl ether > RS - Anhydrous - For analysis - Stabilized with BHT

RS

Refractive index at 20°C.....1.35 - 1.354
Water content (K.F.).....≤ 50 mg/Kg
Colour .....≤ 10 Hazen
Assay (GC).....≥ 99.7 %
Peroxides (as H2O2).....≤ 1 mg/Kg
Free acid (as CH3COOH).....≤ 30 mg/Kg
Ketone and Aldehyde.....≤ 100 mg/Kg
Methanol .....≤ 200 mg/Kg
Stabilizer (ionol)..... 5 - 7 mg/Kg
Matter darkened by H2SO4..... ≤ 10 Hazen
Non volatile residue (without stab.)≤ 10 mg/Kg

Code	Size	Packaging	Notes
P0441010	200 ml	Bottle with septum	
P04410T10	200 ml	Bottle with septum	On molecular sieves 4A, Water content < 20ppm
P0441008	1 l	Aluminium can	
P0441016	1 l	Glass bottle	
P04410T16	1 l	Glass bottle	On molecular sieves 4A, Water content < 20ppm
P0441021	2.5 l	Glass bottle	

Diethyl ether > RPE - For analysis - ACS - Not stabilized

RPE

Description .....Clear liquid
Colour (APHA) .....≤10
Water (K.F.) .....≤300 ppm
Residue on evaporation .....≤10 ppm
Acidity .....≤0.0002 meq/g
Ethyl alcohol .....Conform
Carbonyl Compounds (CO) .....≤10 ppm
Peroxides (H2O2) .....≤1 ppm
Assay (GLC) .....≥99.0 %

Code	Size	Packaging	Notes
447534	1 l	Glass bottle	
447539	5 l	Aluminium can	
447532	20 kg	Aluminium can	
447531	140 kg	Metal drum	

Diethyl ether > RPE - For analysis - ACS - Stabilized with BHT

RPE

Description .....Clear liquid
Colour (APHA) ..... ≤10
Identification (I.R.).....Conform
Foreign odours.....Conform
Ready carbonizable substances.....Conform
Density at 20° C .....0.714 ÷ 0.716
Refractive index at 20°C.....1.35 - 1.354
Boiling point.....34.0 ÷ 35.0 ° C
Water (K.F.) .....≤200 ppm
Residue on evaporation .....≤10 ppm
Acetone.....≤50 ppm
Acidity (acetic acid).....≤5 ppm
Alcalinity (NH3).....≤1.4 ppm
Ethyl alcohol .....≤100 ppm
Methyl alcohol.....≤200 ppm
Carbonyl Compounds (CO) .....≤10 ppm
Heavy metals (Pb).....≤1 ppm
Peroxides (H2O2) .....≤1 ppm
Al.....≤0.5 ppm
Ca.....≤0.5 ppm
Cd.....≤0.05 ppm
Co.....≤0.02 ppm
Cr.....≤0.02 ppm
Cu.....≤0.02 ppm
Fe .....≤0.1 ppm
Mg .....≤0.1 ppm
Mn .....≤0.02 ppm
Ni.....≤0.02 ppm
Pb.....≤0.05 ppm
Sn.....≤0.1 ppm
Zn.....≤0.1 ppm
Assay (GLC) ..... ≥99.8 %
Stabilized with about 6 ppm BHT

Code	Size	Packaging	Notes
447521	1 l	Glass bottle	
447523	2.5 l	Glass bottle	
447522	5 l	Aluminium can	
447525	20 kg	Aluminium can	

Diethyl ether > ERBApharm - According to pharmacopoeia : BP-Ph.Eur. - Not Stabilized

ERBApharm

Description ..... Clear colourless liquid
Identification .....Positive
Acidity .....Conform Ph.Eur.
Aldehydes.....Conform Ph.Eur.
Foreign odours.....Conform Ph.Eur.
Peroxide .....Conform Ph.Eur.
Density at 20° C .....0.714 ÷ 0.716
Boiling point.....34.0 ÷ 35.0 ° C
Water (K.F.) ..... ≤0.2 %
Non volat.substances ..... ≤20 ppm p/v

Code	Size	Packaging	Notes
340731	40 x 100 g	Glass bottle	

Diethyl ether > ERBApharm - According to pharmacopoeia : BP-Ph.Eur. - Stabilized with BHT

ERBApharm

Description ..... Clear colourless liquid
Identification ..... Positive
Acidity .....Conform Ph.Eur.
Aldehydes.....Conform Ph.Eur.
Foreign odours.....Conform Ph.Eur.
Peroxide .....Conform Ph.Eur.
Density at 20° C .....0.714 ÷ 0.716
Boiling point.....34.0 ÷ 35.0 ° C
Water (K.F.) .....≤2 g/l
Non volat.substances ..... ≤20 ppm p/v
Assay (CPG)..... ≥ 99.5 %
Origin (BSE/TSE)..... Synthesis
Residual solvents (Current ICH).....Conform

Code	Size	Packaging	Notes
340751	1 l	Glass bottle	
340752	20 kg	Aluminium can	
340759	140 kg	Metal drum	

Diethyl ether > RE - Pure - Stabilized with BHT

RE

Description ..... Clear colourless liquid
Density at 20°C ..... 0.710 ÷ 0.716
Identification ..... Positive
Density at 20° C ..... 0.710 ÷ 0.716
Boiling point..... 34.1 ÷ 35.1 ° C
Water (K.F.) ..... ≤300 ppm
Residue on evaporation ..... ≤20 ppm
Acidity (acetic acid)..... ≤20 ppm
Peroxyde (H2O2) ..... ≤ 1 ppm
Assay (GLC) ..... ≥99.5 %
Stabilized with BHT..... 5 ÷ 7 ppm

Code	Size	Packaging	Notes
528275	5 l	Aluminium can	
340762	20 kg	Aluminium can	
528276	25 l	Metal drum	
340765	140 kg	Metal drum	

n,n-Diethyl-p-phenylenediamine sulfate

p-N,N-Dietilfenilendiammina solfato • n,n'-Diéthyl-p-phénylènediamine sulfate • p-N,N-Dietilfenilendiamonio sulfato

Synonym:
4-Amino-N,N-diethylaniline sulfate salt

$NH_2C_6H_4N(C_2H_5)_2.H_2SO_4$
Molecular Weight: 262,33
CAS: 6283-63-2
EEC-N: 228-500-6

Classification transport
ONU: 2811
Transport Hazard class: 6.1
Packing group III

Danger
H301
P264-P270-P301+P310a-P330-P321-P405

n,n-Diethyl-p-phenylenediamine sulfate > RPE - For analysis

RPE

Description ..... White crystalline powder
Identification ..... Positive
Loss on drying ..... ≤1 %
Chloride..... ≤200 ppm
Residue on ignition..... ≤0.1 %
Fe ..... ≤200 ppm
Assay (oxidimetric) ..... ≥99 %

Code	Size	Packaging	Notes
443341	100 g	Plastic bottle	

n,n-Diethyl-p-phenylenediamine sulfate > RE - Pure

RE

Description .....White crystalline powder or colourless or light brown
Identification ..... Positive
Assay (oxidimetric) .....≥98 %

Code	Size	Packaging	Notes
338124	100 g	Plastic bottle	
338121	1 kg	Plastic bottle	

Diethyl phthalate

Dietilftalato • Diéthyle phtalate • Dietil ftalato

$C_6H_4(COOC_2H_5)_2$
Molecular Weight: 222,24
CAS: 84-66-2
EEC-N: 201-550-6

Diethyl phthalate > RPE - For analysis

RPE

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 20° C ..... 1.118 ÷ 1.121
Refractive index at 20° C.... 1.500 ÷ 1.505
Water (K.F.) ..... ≤0.1 %
Residue on ignition..... ≤100 ppm
Heavy metals (Pb)..... ≤5 ppm
Assay (GLC) ..... ≥99 %

Code	Size	Packaging	Notes
443404	1 l	Glass bottle	
443402	10 l	Plastic tank	

Diethyl phthalate > ERBApharm - According to pharmacopoeia : BP-NF-Ph.Eur.-JPE

ERBApharm

Description .....Clear colourless,very slightly yellow liq.
Identification (IR)..... Positive
Refractive index at 20°C..... 1.500 ÷ 1.504
Appearance .....Conform Ph.Eur.
Acidity (ml NaOH 0.1M) ..... ≤ 0.1 ml
Related substances(GLC) ...Conform Ph.Eur.
Density (d20/20) .....1.118 - 1.121 Ph.Eur.
Density at 20°C ..... 1.118 - 1.122 NF
Sulphated ash..... ≤0.02 %
Assay (saponification)99.0 - 101.0 % (m/m)
Origin (BSE/TSE)..... Synthesis
Heavy metals (Pb)..... ≤ 20 ppm
As ..... ≤ 2 ppm
Residual solvents (Current ICH)..... Conform

Code	Size	Packaging	Notes
338112	1 l	Glass bottle	
338115	2.5 l	Glass bottle	
338113	30 kg	Metal drum	
338114	200 l		

Differentiator for kit Gram-Hucker

Differenziatore per kit Gram-Hucker • Différenciateur pour kit de Gram-Hucker • Diferenciador para kit Gram-Hucker

Classification transport
ONU: 1170
Transport Hazard class: 3
Packing group II

Danger
H225-H319
P210-P241-P264-P303+P361+P353-P305+P351+P338-P403+P235

Differentiator for kit Gram-Hucker > RS - For bacteriology

RS

Description ..... Liquido incolore
Identification ..... Positive

Code	Size	Packaging	Notes
444131	250 ml	Glass bottle	

CE IVD

Digitonin

Digitonina • Digitonine • Digitonina

Synonym: *Digitin*

$C_{56}H_{92}O_{29}$
Molecular Weight: 1229,34
CAS: 11024-24-1
EEC-N: 234-255-6

Classification transport
ONU: 1544
Transport Hazard class: 6.1
Packing group I

Danger
H301-H373
P264-P260-P270-P301+P310a-P314-P330

Digitonin > RPE - For analysis

RPE

Description .....White crystalline powder
Identification ..... Positive
Water (K.F.) .....≤ 6 %
Residue on calcination.....≤ 0.3 %
Potere rotat. spec. (C=10; CH3COOH 75%) .....-47 ÷ -49 ° (s.s.)

Code	Size	Packaging	Notes
444207	1 g	Glass bottle	
444208	25 g	Glass bottle	

Diglyme ▶ Diethylene glycol dimethyl ether

Diisopropylamine

Diisopropilammina • Diisopropylamine • Diisopropilamina

Synonym: *DIPA*

$[(CH_3)_2CH]_2NH$
Molecular Weight: 101,19
CAS: 108-18-9
EEC-N: 203-558-5

Classification transport
ONU: 1158
Transport Hazard class: 3
Packing group II

Danger
H225-H302-H331-H314-H335
P210-P241-P264-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

Diisopropylamine > RPE - For analysis

RPE

Description ..... Clear liquid
Identification ..... Positive
Colour ..... ≤ 10 APHA
Refractive index at 20°C..... 1.3910 ÷ 1.3930
Water .....≤ 0.2 %
Assay (GLC) .....≥ 99 %

Code	Size	Packaging	Notes
445981	250 ml	Glass bottle	

Diisopropylether

Diisopropiletere • Ether isopropylique • Eter di-isopropílico

Synonym: *Isopropyl ether*

$[(CH_3)_2CH]_2O$
Molecular Weight: 102,18
CAS: 108-20-3
EEC-N: 203-560-6

Classification transport
ONU: 1159
Transport Hazard class: 3
Packing group II

Danger
H225-H336-HEU019-HEU066
P210-P241-P243-P303+P361+P353-P304+P340-P403+P235

Diisopropylether > RS - Anhydrous - For analysis

RS

Appearance ..... Clear colourless liquid
Refractive index at 20°C..... 1.366 - 1.370
Identification (IR).....Conform
Water content (K.F.) .....≤ 50 mg/Kg
Colour ..... ≤ 10 Hazen
Density d20/4 ..... 0.722 - 0.726
Peroxides (as H2O2).....≤ 10 mg/Kg
Assay (GC)..... ≥ 99.0 %
Stabilizer (ionol)..... 2 - 15 mg/Kg
Free acid (as CH3COOH).....≤ 10 mg/Kg
Non volatile residue (without stab.)≤ 10 mg/Kg

Code	Size	Packaging	Notes
P0431016	1 l	Glass bottle	

Diisopropylether > RPE - For analysis

RPE

Description ..... Clear colourless liquid
Identification (I.R.)..... Conform
Alcohol miscibility..... Complete
Chloroform miscibility ..... Complete
Diethyl ether miscib..... Complete
Density at 20° C ..... 0.719 ÷ 0.729
Boiling point..... 66.5 ÷ 69.5 ° C
Water (K.F.) ..... ≤0.1 %
Peroxides (H2O2) .....≤5 ppm
Assay (GLC) ..... ≥98.5 %

Code	Size	Packaging	Notes
447932	1 l	Glass bottle	
447931	2.5 l	Glass bottle	
447933	5 l	Plastic tank	
447935	21 kg	Aluminium can	

Stabilized with ~10 ppm of BHT

Diisopropylether > RE - Pure

RE

Appearance ..... Clear colourless liquid
Identification (IR)..... Conform
Water content (K.F.) .....≤ 1000 mg/Kg
Colour ..... ≤ 10 Hazen
Density d20/4 ..... 0.722 - 0.726
Peroxides (as H2O2).....≤ 50 mg/Kg
Assay (GC)..... ≥ 99.0 %
Stabilizer (ionol)..... 2 - 15 mg/Kg
Free acid (as CH3COOH).....≤ 10 mg/Kg
Non volatile residue (without stab.)≤ 10 mg/Kg

Code	Size	Packaging	Notes
P0430228	5 l	Plastic tank	
P0430240	10 l	Metal tank	
P0430248	25 l	Metal drum	
P0430268	200 l	Metal drum	

n,n-Diisopropylethylamine

n,n-Diisopropiletilammina • n,n-Diisopropyléthylamine • n,n-Disopropiletilamina

Synonym:
DIPEA
Ethyldiisopropylamine

$C_8H_{19}N$
Molecular Weight: 129,25
CAS: 7087-68-5
EEC-N: 230-392-0

Classification transport
ONU: 2733
Transport Hazard class: 3
Packing group II

Danger
H225-H302-H314-H412
P210-P241-P264-P273-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

n,n-Diisopropylethylamine > RE - Pure

RE

Appearance .....Clear, colourless to yellowish liquid
Identification ..... Conform
Refractive index at 20°C..... 1.411 - 1.415
Water content (K.F.) ..... ≤ 2000 mg/Kg
Assay (GC).....≥ 99 %

Code	Size	Packaging	Notes
P0400272	200 ml	Bottle with septum	
P0400252	30 l	Plastic tank	

1,4-Dihydroxybenzene ▶ Hydroquinone

Dimedone

Dimedone • Dimédon • Dimedona

Synonym:
Methone

$(CH_3)_2CCH_2COCH_2COCH_2$
Molecular Weight: 140,18
CAS: 126-81-8
EEC-N: 204-804-4

Dimedone > RPE - For analysis

RPE

Description ..... White crystalline powder
Identification ..... Positive
Melting point..... 147 ÷ 150 ° C
Assay (GLC) ..... ≥ 98.5 %

Code	Size	Packaging	Notes
444252	25 g	Glass bottle	

For the determination of aldehydes

1,2-Dimethoxyethane

1,2-Dimetossietano • Glycol éthylénique diméthyléther • 1,2-Dimetoxietano

Synonym:
Dimethylglycol

$C_4H_{10}O_2$
Molecular Weight: 90,12
CAS: 110-71-4
EEC-N: 203-794-9

Classification transport
ONU: 2252
Transport Hazard class: 3
Packing group II

Danger
H225-H332-H360FD-HEU019-HA26
P210-P241-P243-P303+P361+P353-P304+P340-P403+P235

1,2-Dimethoxyethane > RS - Anhydrous - For analysis

RS

Refractive index at 20°C ..... 1.377 - 1.381
Water content (K.F.) ..... ≤ 200 mg/Kg
Colour ..... ≤ 10 Hazen
Assay (GC) ..... ≥ 99 %

Code	Size	Packaging	Notes
P0301010	200 ml	Glass bottle	
P03010T16	1 l	Glass bottle	On molecular sieves 3A

1,2-Dimethoxyethane > RE - Pure

RE

Refractive index at 20°C ..... 1.377 - 1.381
Water content (K.F.) ..... ≤ 500 mg/Kg
Non volatile residue ..... ≤ 50 mg/Kg
Colour ..... ≤ 10 Hazen
Assay (GC) ..... ≥ 99.5 %
Free acid (as CH3COOH) ..... ≤ 150 mg/Kg

Code	Size	Packaging	Notes
P0300221	2.5 l	Glass bottle	
P0300268	200 l	Metal drum	

n,n-Dimethylacetamide

n,n-Dimetilacetammide • n,n-Diméthylacétamide • n,n-Dimetilacetamida

$CH_3CON(CH_3)_2$
Molecular Weight: 87,12
CAS: 127-19-5
EEC-N: 204-826-4

Danger
H312-H332-H360D-HA26
P271-P261-P280h-P304+P340-P308+P313-P312a

n,n-Dimethylacetamide > RPE - For analysis

RPE

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 20° C ..... 0.940 ÷ 0.946
Refractive index at 20°C. 1.4343 ÷ 1.4403
Boiling point ..... 164.0 ÷ 166.0 °C
Water (K.F.) ..... ≤0.05 %
Residue on evaporation ..... ≤50 ppm
Acidity (acetic acid) ..... ≤150 ppm
Chloride ..... ≤10 ppm
Heavy metals (Pb) ..... ≤5 ppm
Sulphate ..... ≤10 ppm
Fe ..... ≤5 ppm
Assay (GLC) ..... ≥99.8 %

Code	Size	Packaging	Notes
444307	1 l	Glass bottle	
444308	25 kg	Polythene-metal drum	

p-Dimethylaminobenzaldehyde

p-Dimetilamminobenzaldeide • p-Diméthylaminobenzaldéhyde • p-Dimetilaminobenzaldehído

Synonym:
Ehrlich's reagent

$(CH_3)_2NC_6H_4CHO$
Molecular Weight: 149,19
CAS: 100-10-7
EEC-N: 202-819-0

Warning
H302
P264-P270-P330-P301+P312a-P501a

p-Dimethylaminobenzaldehyde > RPE - For analysis

RPE

Description ..... Yellow / Green
Identification ..... Positive
Melting point ..... 74 ± 2 ° C
Fee acidity ..... ≤ 1 %
Assay (non-aqueos medium) ..... ≥ 97.5 %

Code	Size	Packaging	Notes
444604	100 g	Plastic bottle	
444603	250 g	Plastic bottle	

p-Dimethylaminobenzylidenerhodanine

p-Dimetilamminobenzalrodanina • p-Diméthylaminobenzalrhodanine • p-Dimetilaminobencilidenrodanina

$(CH_3)_2NC_6H_4CH:CSC:SNHCO$
Molecular Weight: 264,37
CAS: 536-17-4
EEC-N: 208-625-2

Warning
H302
P264-P270-P330-P301+P312a-P501a

p-Dimethylaminobenzylidenerhodanine > RPE - For analysis

RPE

Description ..... Red crystalline powder
Identification ..... Positive
Loss on drying ..... ≤1 %
Residue on ignition ..... ≤0.5 %
Copper sensitivity ..... ≥0.5 µg/ml
pH range ..... 2.9 - 4.0

Code	Size	Packaging	Notes
444678	5 g	Glass bottle	

Acid-base indicator (pH 2,9÷4,0)

Dimethyldichlorosilane

Dimetildiclorosilano • Diméthyldichlorosilane • Dimetildiclorosilano

Synonym:
DMDCS

$(CH_3)_2SiCl_2$
Molecular Weight: 129,06
CAS: 75-78-5
EEC-N: 200-901-0

Classification transport
ONU: 1162
Transport Hazard class: 3
Packing group II

Danger
H225-H315-H319-H335
P210-P241-P264-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

Dimethyldichlorosilane > RPE - For analysis

RPE

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 20° C ..... 1.070 ÷ 1.072
Refractive index at 20°C ..... 1.4040 ÷ 1.4060
Boiling point ..... 68.5 ÷ 69.5 ° C
Assay (GLC) ..... ≥ 99 %

Code	Size	Packaging	Notes
444771	100 ml	Glass bottle	

For derivatization

n,n-Dimethylformamide

n,n-Dimetilformammide • n,n-Diméthylformamide • n,n-Dimetil formamida

Synonym:
DMF

$(CH_3)_2NOCH$
Molecular Weight: 73,09
CAS: 68-12-2
EEC-N: 200-679-5

Classification transport
ONU: 2265
Transport Hazard class: 3
Packing group III

Danger
H226-H312-H332-H319-H360D-HA26
P210-P241-P264-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

n,n-Dimethylformamide > RS - For HPLC - Isocratic Grade

RS

Appearance ..... Clear colourless liquid
Colour ..... ≤ 10 Apha
Water content (K.F.) ..... ≤ 0.03 % m/m
Non volatile residue ..... ≤ 0.0005 % m/m
Assay (GC) (on anhydrous) ..... ≥ 99.9 %
Free acid (as CH3COOH)... ≤ 0.003 % m/m
UV transmittance at 270 nm ..... ≥ 30 %
UV transmittance at 275 nm ..... ≥ 60 %
UV transmittance at 300 nm ..... ≥ 90 %
UV transmittance at 320 nm ..... ≥ 97 %

Code	Size	Packaging	Notes
444981	1 l	Glass bottle	
444982	2.5 l	Glass bottle	

n,n-Dimethylformamide > RS - For Headspace chromatography

RS

Description ..... Clear liquid
Colour (APHA) ..... ≤10
Identification ..... Positive
Density at 20° C ..... 0.945 ÷ 0.955
Refractive index at 20°C ..... 1.428 - 1.432
Boiling point ..... 152.0 ÷ 154.0 ° C
Water (K.F.) ..... ≤200 ppm
Residue on evaporation ..... ≤10 ppm
Assay (GLC) ..... ≥99.99 %
UV cut off ..... ≤ 269 nm

U.V. Transmittance
at 270 nm ..... ≥ 20 %
At 275 nm ..... ≥ 55 %
at 300 nm ..... ≥ 85 %
at 320 nm ..... ≥ 95 %

Residual solvent of class 2(acc. to ICH)≤ 10 µg/g
Residual solvent of class 3(acc. to ICH)≤ 50 µg/g
Residual solvent of class 1(acc. to ICH) . ≤ 1 µg/g

Code	Size	Packaging	Notes
444991	1 l	Glass bottle	

n,n-Dimethylformamide > RS - ATRASOL - For analysis of volatile traces

RS

Appearance ..... Clear liquid
Refractive index at 20°C ..... 1.428 - 1.432
Density d20/4 ..... 0.945 - 0.955
Colour ..... ≤ 10 Hazen
Water content (K.F.) ..... ≤ 200 mg/Kg
Non volatile residue ..... ≤ 10 mg/Kg
Free acid (as HCOOH) ..... ≤ 20 mg/Kg
Free alkali as HN(CH3)2 ..... ≤ 10 mg/Kg
GC-FID.Individ. peak (hexane) ..... ≤ 3 mg/l

Retention time range before DMF

Code	Size	Packaging	Notes
P0343216	1 l	Glass bottle	
P0343221	2.5 l	Glass bottle	

n,n-Dimethylformamide > RS - PESTIPUR - For pesticide analysis

RS

Refractive index at 20°C.....1.428 - 1.432
Water content (K.F.).....≤ 500 mg/Kg
Colour ..... ≤ 10 Hazen
Assay (GC)..... ≥ 99.8 %
Non volatile residue.....≤ 10 mg/Kg
GC-ECD.Individual peak (Lindane) ..≤ 3 ng/l
Retention time trichlorobenzene to mirex

Code	Size	Packaging	Notes
444941	1 l	Glass bottle	

n,n-Dimethylformamide > RS - SPECTROSOL - For optical spectroscopy

RS

Description .....Clear liquid
Colour (APHA) ..... ≤10
Identification .....Positive
Density at 20° C .....0.945 ÷ 0.955
Refract. index at 25° C ...1.4224 ÷ 1.4314
Boiling point.....152.0 ÷ 154.0 ° C
Water (K.F.) .....≤400 ppm
Residue on evaporation .....≤10 ppm
Acidity or alkalinity.....≤0.001 meq/g
Methyl alcohol.....≤100 ppm
Assay (GLC) ..... ≥99.9 %
U.V. Transmittance
at 270 nm ..... ≥28 %
at 280 nm ..... ≥72 %
at 300 nm ..... ≥90 %
at 320 nm ..... ≥96 %
at 330 nm ..... ≥98 %

Code	Size	Packaging	Notes
444957	1 l	Glass bottle	
444956	2.5 l	Glass bottle	

n,n-Dimethylformamide > RS - Anhydrous - For analysis

RS

Appearance .....Clear liquid
Identification (IR).....Conform
Refractive index at 20°C.....1.428 - 1.432
Colour ..... ≤ 10 Hazen
Water content (K.F.) .....≤ 50 mg/Kg
Density d20/4 .....0.945 - 0.955
Non volatile residue.....≤ 20 mg/Kg
Free acid (as HCOOH).....≤ 20 mg/Kg
Free alkali as HN(CH3)2.....≤ 10 mg/Kg
Assay (GC)..... ≥ 99.9 %
Methanol .....≤ 100 mg/Kg
Iron (Fe).....≤ 5 mg/Kg

Code	Size	Packaging	Notes
P0341010	200 ml	Bottle with septum	
P03410T10	200 ml	Bottle with septum	On molecular sieves 4A.
P0341016	1 l	Glass bottle	
P03410T16	1 l	Glass bottle	On molecular sieves 4A
P0341021	2.5 l	Glass bottle	

n,n-Dimethylformamide > RS - For peptide synthesis

RS

Appearance .....Clear colourless liquid
Colour ..... ≤ 10 Hazen
Refractive index at 20°C.....1.428 - 1.432
Water content (K.F.).....≤ 300 mg/Kg
Bromophenol blue test.....Conform
Amines content.....≤ 5 mg/Kg
Assay (GC)..... ≥ 99.9 %
Methanol .....≤ 100 mg/Kg
Non volatile residue.....≤ 15 mg/Kg
Copper (Cu) .....≤ 0.05 mg/Kg
Cadmium (Cd).....≤ 0.05 mg/Kg
Chromium (Cr) .....≤ 0.05 mg/Kg
Iron (Fe).....≤ 0.05 mg/Kg
Nickel (Ni) .....≤ 0.05 mg/Kg
Lead (Pb).....≤ 0.1 mg/Kg

Code	Size	Packaging	Notes
P0343516	1 l	Glass bottle	
P0343521	2.5 l	Glass bottle	
P0343522	5 l	Plastic tank	
P0343541	10 l	Plastic tank	
P0343549	25 l	Plastic drum	
P0343550	25 l	Polythene-metal drum	
P0343567	200 l	Plastic drum	

n,n-Dimethylformamide > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description .....Clear liquid
Colour (APHA) ..... ≤15
Identification (I.R.).....Conform
Water miscibility.....Conform
Chloroform miscibility ..... Complete
Density at 20° C .....0.949 ÷ 0.952
Refract. index at 25° C ...1.4224 ÷ 1.4314
Boiling point.....152.0 ÷ 154.0 ° C
Water (K.F.) ..... ≤0.03 %
Residue on evaporation .....≤20 ppm
Acidity (formic acid) .....≤20 ppm
Alcalinity (NH3).....≤20 ppm
Chloride.....≤10 ppm
Heavy metals (Pb).....≤1 ppm
Sulphate.....≤10 ppm
Cd.....≤0.05 ppm
Cr.....≤0.02 ppm
Cu.....≤0.02 ppm
Fe .....≤0.05 ppm
Ni.....≤0.02 ppm
Pb .....≤0.1 ppm
Assay (GLC) ..... ≥99.9 %
Methyl alcohol.....≤ 100 ppm

Code	Size	Packaging	Notes
444926	1 l	Glass bottle	
444923	2.5 l	Glass bottle	
444928	20 kg	Drum	
444925	190 kg	Metal drum	

n,n-Dimethylformamide > RE - Pure

RE

Description ..... Clear colourless liquid
Identification ..... Positive
Colour ..... ≤ 10 APHA
Density at 20°C .....0.945 ÷ 0.950
Refractive index at 20°C.1.4229 ÷ 1.4329
Boiling point.....152.0 ÷ 154.0 °C
pH at 20°C .....6.0 ÷ 8.0
Residue on evaporation .....≤ 50 ppm
Water (K.F.) ..... ≤ 0.03 %
Methyl alcohol.....≤ 100 ppm
Free acid (as HCOOH)..... ≤ 0.0020 %
Free alkali as HN(CH3)2..... ≤ 0.0010 %
Assay (GLC) ..... ≥ 99.9 %

Code	Size	Packaging	Notes
508801	1 l	Glass bottle	
508802	2.5 l	Glass bottle	
528221	5 l	Plastic tank	
528220	25 l	Metal drum	
508803	200 l	Metal drum	

n,n-Dimethylformamide-d7

n,n-Dimetilformammide-d7 • n,n-Diméthylformamide-d7 • n,n-Dimetilformamida-d7

Synonym:
DMF-d7
Heptadeutero-N,N-dimethylformamide

$(CD_3)_2NOCD$
Molecular Weight: 80,14
CAS: 4472-41-7
EEC-N: 224-745-8

Classification transport
ONU: 2265
Transport Hazard class: 3
Packing group III

Danger
H226-H312-H332-H319-H360D-HA26
P210-P241-P264-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

n,n-Dimethylformamide-d7 > RS - For NMR - min 99.5%

RS

Code	Size	Packaging	Notes
P5189A	2 x 0.75 ml	Glass ampoule	
P5183A	5 ml	Glass ampoule	

n,n-Dimethylformamide dimethylacetal

n,n-Dimetilformammide dimetilacetale • n,n-Diméthylformamide diméthylacétal • n,n-Dimetilformamida dimetilacetal

Synonym:
1,1-Dimethoxy-N,N-dimethylmethylamine

$(CH_3)_2NCH(OCH_3)_2$
Molecular Weight: 119,16
CAS: 4637-24-5
EEC-N: 225-063-3

Classification transport
ONU: 1993
Transport Hazard class: 3
Packing group II

Danger
H225-H332-H315-H319
P210-P241-P264-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

n,n-Dimethylformamide dimethylacetal > RPE - For analysis

RPE

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 20° C ..... 0.890 - 0.910
Boiling point..... 102 - 104 ° C
Assay (GC).....≥ 97 %

Code	Size	Packaging	Notes
444901	10 ml	Glass bottle	

For derivatization

Dimethylglyoxime disodium salt octahydrate ▶ Diacetyldioxime sodium salt

3,7-Dimethyl-2,6-octadienal ▶ Citral

n,n'-Dimethylpropylene uree

n,n'-Dimetilpropilene urea • n,n'-Diméthylpropylène urée • n,n'-Dimetilpropileno urea

Synonym:
DMPU

$C_6H_{12}N_2O$
Molecular Weight: 128,17
CAS: 7226-23-5
EEC-N: 230-625-6

Danger
H302-H318-H361f
P264-P280i-P305+P351+P338-P308+P313-P330-P301+P312a

n,n'-Dimethylpropylene uree > RE - Pure

RE

Clear,colourless to light yellow liq. .Conform
Refractive index at 20°C..1.4883 - 1.4913
Water content (K.F.).....≤ 1000 mg/Kg
Assay (GC)..... ≥ 99.0 %

Code	Size	Packaging	Notes
P8020218	500 ml	Glass bottle	
P8020216	1 l	Glass bottle	
P8020229	5 l	Plastic tank	
P8020248	25 l	Metal drum	

Dimethylsulphoxide

Dimetilsolfossido • Diméthylsulfoxyde • Dimetilsulfóxido

Synonym:
Methyl sulfoxide
DMSO

CH_3SOCH_3
Molecular Weight: 78,13
CAS: 67-68-5
EEC-N: 200-664-3

Warning
H315-H319
P264-P280-P305+P351+P338-P332+P313-P337+P313-P302+P352a

Dimethylsulphoxide > RS - For HPLC - Isocratic Grade

RS

Appearance ..... Clear colourless liquid
Colour ..... ≤ 10 Apha
Water content (K.F.)..... ≤ 0.04 % m/m
Non volatile residue..... ≤ 0.0005 % m/m
Assay (GC) (on anhydrous) ..... ≥ 99.95 %
Free acid ..... ≤ 0.0005 meq/g
UV transmittance at 263 nm ..... ≥ 10 %
UV transmittance at 270 nm ..... ≥ 40 %
UV transmittance at 290 nm ..... ≥ 70 %
UV transmittance at 310 nm ..... ≥ 90 %
UV transmittance at 330 nm ..... ≥ 95 %
UV transmittance from 350 nm to 400 nm≥ 98 %

Code	Size	Packaging	Notes
445141	1 l	Glass bottle	
445142	2.5 l	Glass bottle	

Dimethylsulphoxide > RS - For Headspace chromatography

RS

Description ..... Clear liquid
Identification ..... Positive
Density at 20° C ..... 1.100 - 1.104
Water (K.F.)..... ≤ 200 ppm
Refractive index at 20°C..... 1.477 - 1.480
Residue on evaporation ..... ≤ 2 ppm
Assay (GLC) ..... ≥ 99.99 %
UV cut off..... ≤ 265 nm
U.V. Transmittance
at 268 nm ..... ≥ 30 %
at 275 nm ..... ≥ 60 %
at 300 nm ..... ≥ 85 %
at 350 nm ..... ≥ 95 %
at 400 nm ..... ≥ 98 %
GC/HS
Residual solvent of class 1(acc. to ICH) . ≤ 1 µg/g
Residual solvent of class 2(acc. to ICH)≤ 10 µg/g
Residual solvent of class 3(acc. to ICH)≤ 50 µg/g

Code	Size	Packaging	Notes
445121	1 l	Glass bottle	

Dimethylsulphoxide > RS - ATRASOL - For analysis of volatile traces

RS

Appearance ..... Clear colourless liquid
Refractive index at 20°C..... 1.477 - 1.481
Density d20/4 ..... 1.096 - 1.106
Water content (K.F.)..... ≤ 200 mg/Kg
Colour ..... ≤ 10 Hazen
Assay (GC)..... ≥ 99.98 %
Non volatile residue..... ≤ 2 mg/Kg
GC-FID.Individ. peak (hexane)..... ≤ 3 mg/l
Retention time range before DMSO

Code	Size	Packaging	Notes
P0353216	1 l	Glass bottle	
P0353221	2.5 l	Glass bottle	

Dimethylsulphoxide > RS - SPECTROSOL - For optical spectroscopy - Reag.Ph.Eur.

RS

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 20° C ..... 1.100 ÷ 1.104
Refractive index at 20°C..... 1.478 ÷ 1.479
Melting point..... ≥ 18.3 ° C
Water (K.F.)..... ≤500 ppm
Residue on evaporation ..... ≤10 ppm
Acidity ..... ≤0.0005 meq/g
Alcalinity..... ≤0.0002 meq/g
Assay (GLC) ..... ≥99.8 %
Fluorescence
at 254 nm ..... ≤2 ppb
at 365 nm ..... ≤2 ppb
Dimethylsulphone..... ≤ 0.1 %
UV Absorbance at 262 nm..... ≤ 1.00 AU
UV Absorbance at 270 nm..... ≤ 0.46 AU
UV Absorbance at 290 nm..... ≤ 0.16 AU
UV Absorbance from 340 nm..... ≤ 0.01 AU
U.V. Transmittance
at 265 nm ..... ≥ 10 %
at 275 nm ..... ≥ 60 %
At 290 nm ..... ≥ 71 %
at 315 nm ..... ≥ 90 %
At 340 nm ..... ≥ 98 %

Code	Size	Packaging	Notes
445112	1 l	Glass bottle	
445111	2.5 l	Glass bottle	

Dimethylsulphoxide > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description ..... Clear colourless liquid
Identification ..... Positive
Ready carbonizable substances..... Conform
Density at 20° C ..... 1.096 ÷ 1.106
Refractive index at 20°C. 1.4765 ÷ 1.4825
Boiling point..... 188.5 ÷ 189.5 °C
Melting point..... 18.3 ÷ 18.7 °C
Water (K.F.) ..... ≤0.05 %
Residue on evaporation ..... ≤50 ppm
Acidity ..... ≤0.001 meq/g
Chloride..... ≤5 ppm
Heavy metals (Pb)..... ≤20 ppm
Sulphate ..... ≤50 ppm
Assay (GLC) ..... ≥99.9 %

Code	Size	Packaging	Notes
445103	1 l	Glass bottle	
445106	2.5 l	Glass bottle	
445107	15 kg	Plastic tank	
445101	25 kg	Plastic tank	

Hygroscopic product. Store well sealed in a dry place

Dimethylsulphoxide > RE - Pure

RE

Description ..... Clear colourless liquid
Water content (K.F.) ..... ≤ 100 mg/Kg
Identification ..... Positive
Colour ..... ≤ 10 APHA
Assay (GC) ..... ≥ 99.8 %
Density at 20°C ..... 1.096 ÷ 1.106
Refractive index at 20°C. 1.4765 ÷ 1.4825
Boiling point..... 188 ÷ 190 °C
Acidity ..... ≤ 100 ppm
Water (K.F.) ..... ≤ 0.1 %
Residue on evaporation ..... ≤ 50 ppm
Dimethylsulphone..... ≤ 0.1 %
Assay (GLC) ..... ≥ 99.8 %

Code	Size	Packaging	Notes
508001	1 l	Glass bottle	
508002	2.5 l	Glass bottle	
528335	5 l	Plastic tank	
P03502T10	200 ml	Bottle with septum	On molecular sieves 4A
P03502T16	1 l	Glass bottle	On molecular sieves 4A
P03502T21	2.5 l	Glass bottle	On molecular sieves 4A

Hygroscopic product. Store well sealed in a dry place

Dimethylsulphoxide-d6

Dimetilsolfossido-d6 • Diméthylsulfoxyde-d6 • Dimetilsulfóxido-d6

Synonym:
Hexadeuterodimethyl sulfoxide

CD_3SOCD_3
Molecular Weight: 84,18
CAS: 2206-27-1
EEC-N: 218-617-0

Warning
H315-H319
P264-P280g-P280i-P305+P351+P338-P332+P313-P337+P313

Dimethylsulphoxide-d6 > RS - For NMR - min 99.8%

RS

Code	Size	Packaging	Notes
P5200	10 x 0.6 ml	Glass ampoule	
P5209	10 x 0.75 ml	Glass ampoule	
P5204A	10 ml	Glass ampoule	
P5204S	5 x 10 ml	Bottle with septum	
P5205	25 ml	Glass bottle	
P5206	100 ml	Glass bottle	

Hygroscopic product. Store well sealed in a dry place

Dimethylsulphoxide-d6 > RS - For NMR - min 99.96%

RS

Code	Size	Packaging	Notes
P5220	10 x 0.6 ml	Glass ampoule	
P5229	10 x 0.75 ml	Glass ampoule	

Hygroscopic product. Store well sealed in a dry place

Dimethylsulphoxide-d6 + 0.03% TMS

Dimetilsolfossido-d6 + 0.03% TMS • Diméthylsulfoxyde-d6 + 0.03% TMS • Dimetilsulfóxido-d6 + 0.03% TMS

Synonym:
Hexadeuterodimethyl sulfoxide

CD_3SOCD_3
Molecular Weight: 84,18
CAS: 2206-27-1
EEC-N: 218-617-0

Warning
H315-H319
P264-P280g-P280i-P305+P351+P338-P332+P313-P337+P313

Dimethylsulphoxide-d6 + 0.03% TMS > RS - For NMR - min 99.8%

RS

Code	Size	Packaging	Notes
P5602	10 x 0.6 ml	Glass ampoule	
P5605	25 ml	Glass bottle	
P5606	100 ml	Glass bottle	

Hygroscopic product. Store well sealed in a dry place

Dimethylsulphoxide-d6 + 0.03% TMS > RS - For NMR - min 99.95%

RS

Code	Size	Packaging	Notes
P5541	10 x 0.75 ml	Glass ampoule	
P5545	25 ml	Glass bottle	

Hygroscopic product. Store well sealed in a dry place

Dimidium bromide

Dimidio bromuro • Dimidium bromure • Dimidio bromuro

Synonym:
3,8-Diamino-5-methyl-6-phenylphenanthridinium bromide
Trypadine

$C_{20}H_{18}BrN_3$
Molecular Weight: 380,29
CAS: 518-67-2
EEC-N: 208-256-7

Warning
H315-H319
P264-P280-P305+P351+P338-P332+P313-P337+P313-P302+P352a

Dimidium bromide > RPE - For analysis

RPE

Description ..... Polvere rosso - bruna
Identification ..... Positive

Code	Size	Packaging	Notes
445232	1 g	Glass bottle	
445231	5 g	Glass bottle	
445233	25 g	Glass bottle	

For the determination of surfactants

2,4-Dinitrochlorobenzene

2,4-Dinitroclorobenzene • 2,4-Dinitrochlorobenzène • 2,4-Dinitro -1-clorobenceno

Synonym:
DNCB
1-Chloro-2,4-dinitrobenzene

$(NO_2)_2C_6H_3Cl$
Molecular Weight: 202,55
CAS: 97-00-7
EEC-N: 202-551-4

Classification transport
ONU: 3441
Transport Hazard class: 6.1
Packing group II

Danger
H301-H311-H331-H373-H410
P264-P273-P271-P304+P340-P301+P310a-P312a

2,4-Dinitrochlorobenzene > RE - Pure

RE

Description ..... Yellow crystal. powder
Identification ..... Positive
Melting point ..... 48 ÷ 52 ° C
Residue on ignition ..... ≤0.1 %
Assay (argentimetric) ..... ≥98 %

Code	Size	Packaging	Notes
445421	250 g	Glass bottle	

2,4-Dinitrophenylhydrazine (with 30% of water)

2,4-Dinitrofenilidrazina (con 30% di acqua) • 2,4-Dinitrophénylhydrazine (avec 30% d'eau) • 2,4-Dinitrofenilhidracina (con 30% de agua)

$(NO_2)_2C_6H_3NHNH_2$
Molecular Weight: 198,14
CAS: 119-26-6
EEC-N: 204-309-3

Classification transport
ONU: 1325
Transport Hazard class: 4.1
Packing group II

Danger
H228-H302-H315-H319-HEU001
P210-P241-P264-P280a-P305+P351+P338-P330

2,4-Dinitrophenylhydrazine (with 30% of water) > RPE - For analysis

RPE

Description ..... Reddish powder
Identification ..... Positive
Melting point ..... 198 ÷ 201 °C
Water (K.F.) ..... 30 ÷ 35 %
Residue on ignition ..... ≤ 500 ppm
Fe ..... ≤ 10 ppm
Assay (HPLC) ..... ≥ 98.5 %

Code	Size	Packaging	Notes
445524	100 g	Glass bottle	

1,4-Dioxane

1,4-Diossano • 1,4-Dioxane • 1,4-Dioxano

Synonym:
Diethylene oxide

$OCH_2CH_2OCH_2CH_2$
Molecular Weight: 88,11
CAS: 123-91-1
EEC-N: 204-661-8

Classification transport
ONU: 1165
Transport Hazard class: 3
Packing group II

Danger
H225-H319-H351-H335-HEU019-HEU066
P210-P241-P264-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

1,4-Dioxane > RS - For HPLC - Isocratic grade - Stabilized with BHT

RS

Description ..... Clear liquid
Colour ..... ≤ 20 APHA
Identification (I.R.) ..... Positive
Refractive index at 20°C ..... 1.420 ÷ 1.424
Density at 20°C ..... 1.031 ÷ 1.037
Boiling point ..... 100 ÷ 102 °C
Water (K.F.) ..... ≤ 250 ppm
Residue on evaporation ..... ≤ 5 ppm
Acetal ..... ≤ 500 ppm
Acidity (acetic acid) ..... ≤ 50 ppm
Alcalinity (NH3) ..... ≤ 3 ppm
Carbonyl compounds (CO) ..... ≤ 100 ppm
Peroxyde (H2O2) ..... ≤ 30 ppm
Heavy metals (Pb) ..... ≤ 0.1 ppm
Assay (CPG) ..... ≥ 99.5 %
At 250 nm ..... ≤ 0.20 AU
At 270 nm ..... ≤ 0.07 AU
At 280 nm ..... ≤ 0.05 AU
At 290 nm ..... ≤ 0.02 AU

Code	Size	Packaging	Notes
443231	1 l	Glass bottle	

1,4-Dioxane > RS - Anhydrous - For analysis - Stabilized with BHT

RS

Refractive index at 20°C ..... 1.42 - 1.424
Water content (K.F.) ..... ≤ 100 mg/Kg
Colour ..... ≤ 10 Hazen
Peroxides (as H2O2) ..... ≤ 50 mg/Kg
Assay (GC) ..... ≥ 99.8 %
Stabilizer (ionol) ..... 20 - 80 mg/Kg
Non volatile residue (without stab.) ≤ 10 mg/Kg
Free acid (as CH3COOH) ..... ≤ 50 mg/Kg

Code	Size	Packaging	Notes
P0361010	200 ml	Bottle with septum	
P0361016	1 l	Glass bottle	
P0361021	2.5 l	Glass bottle	

1,4-Dioxane > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611032001	50 ml	Glass bottle	Dioxane stock solution 1.0 mg/ml Ref Ph.Eur 1032001
611032002	100 ml	Glass bottle	Dioxane solution 0.5 mg/ml Ref Ph.Eur 1032002
611032003	50 ml	Glass bottle	Dioxane solution R1 0.1 mg/ml Ref Ph.Eur 1032003

1,4-Dioxane > RPE - For analysis - ACS - Reag.Ph.Eur. - Reag.USP - Stabilized with BHT

RPE

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 20° C ..... 1.032 ÷ 1.036
Refractive index at 20°C ..... 1.4194 ÷ 1.4254
Boiling point ..... 100.5 ÷ 101.5 °C
Freezing point ..... 11.5 ÷ 12.1 ° C
Water (K.F.) ..... ≤500 ppm
Residue on evaporation ..... ≤20 ppm
Acetal ..... ≤50 ppm
Acidity ..... ≤0.0016 meq/g
Total phosphorus ..... ≤0.1 ppm
Total silicon ..... ≤0.05 ppm
Total sulphur ..... ≤0.2 ppm
Ca ..... ≤0.5 ppm
Cu ..... ≤0.02 ppm
Fe ..... ≤0.2 ppm
K ..... ≤0.1 ppm
Mg ..... ≤0.05 ppm
Na ..... ≤0.5 ppm
Pb ..... ≤0.05 ppm
Zn ..... ≤0.2 ppm
Assay (GLC) ..... ≥99.8 %
Peroxides (H2O2) ..... ≤50 ppm
Carbonyl (as HCHO) ..... ≤100 ppm

Code	Size	Packaging	Notes
443202000	1 l	Glass bottle	
443206000	2.5 l	Glass bottle	
443204000	5 l	Plastic tank	
443201000	28 kg	Metal drum	

1,4-Dioxane > RE - Pure - Stabilized with BHT

RE

Description ..... Clear colourless liquid
Identification ..... Positive
Colour ..... ≤ 10 APHA
Density at 20° C ..... 1.031 ÷ 1.037
Refractive index at 20°C. 1.4174 ÷ 1.4274
Boiling point..... 100.3 ÷ 101.8 ° C
Water (K.F.) ..... ≤0.1 %
Residue on evaporation .....≤50 ppm
Acetal..... ≤0.2 %
Acidity (acetic acid).....≤ 50 ppm
Peroxides (H2O2) .....≤ 50 ppm
Assay (GLC) ..... ≥99.5 %
Stabilized with BHT..... 20 ÷ 80 ppm
Stabilisation (ionol) faite à l'atelier .Conform

Code	Size	Packaging	Notes
338001	1 l	Glass bottle	
338003	2.5 l	Glass bottle	
338002	5 l	Plastic tank	
338005	28 kg	Metal drum	
338004	25 l	Plastic tank	

1,3-Dioxolane

1,3-Diossolano • 1,3-Dioxolane • 1,3-Dioxolano

Synonym:
Ethylene glycol methylene ether
Formaldehyde ethylene acetal

$C_3H_6O_2$
Molecular Weight: 74,08
CAS: 646-06-0
EEC-N: 211-463-5

Classification transport
ONU: 1166
Transport Hazard class: 3
Packing group II

Danger
H225
P210-P241-P243-P280a-P303+P361+P353-P403+P235

1,3-Dioxolane > RE - Pure

RE

Refractive index at 20°C..... 1.3980 - 1.4020
Water content (K.F.) .....≤ 150 mg/Kg
Colour .....≤ 10 Hazen
Assay (GC).....≥ 99.9 %
Peroxides (as H2O2).....≤ 10 mg/Kg
Stabilizer (ionol).....~75 mg/kg

Code	Size	Packaging	Notes
P8030216	1 l	Glass bottle	
P8030222	5 l	Plastic tank	

Diphenylamine

Difenilammina • Diphénylamine • Difenilamina

$(C_6H_5)_2NH$
Molecular Weight: 169,23
CAS: 122-39-4
EEC-N: 204-539-4

Classification transport
ONU: 2811
Transport Hazard class: 6.1
Packing group II

Danger
H301-H311-H331-H373-H410
P264-P273-P271-P304+P340-P301+P310a-P312a

Diphenylamine > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description ..... White crystalline powder
Identification ..... Positive
Nitrate .....Conform
Melting point.....52.5 ÷ 54.0 °C
Nitrate sinsitivity.....Conform
Alcohol solubility .....Conform
Residue on calcination..... ≤ 0.03 %

Code	Size	Packaging	Notes
443654	100 g	Plastic bottle	

Redox indicator purple - colorless

Diphenylamine solution 1% in sulfuric acid

Difenilammina soluzione 1% in acido solforico • Diphénylamine solution 1% dans l'acide sulfurique • Difenilamina solución 1% en ácido sulfúrico

$(C_6H_5)_2NH$
Molecular Weight: 169,23
CAS: 122-39-4

Classification transport
ONU: 1760
Transport Hazard class: 8
Packing group II

Danger
H314-H318
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Diphenylamine solution 1% in sulfuric acid > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611032109	100 ml	Glass bottle	Ref Ph.Eur 1032101
611032101	1 l	Glass bottle	Ref Ph.Eur 1032101
611032102	1 l	Glass bottle	Diphenylamine solution R1 Ref Ph.Eur 1032102

Storage: protected from light

4-Diphenylaminesulfonic acid sodium salt

4-Difenilammina solfonato sodico • 4-Diphénylamine sulfonate sodique • 4-Difenilamina sulfonato sal sódica

Synonym:
4-(Phenylamino)benzene sulfonic acid sodium salt
Sodium diphenylamine-4-sulfonate

$C_6H_5NHC_6H_4SO_3Na$
Molecular Weight: 271,27
CAS: 6152-67-6
EEC-N: 228-165-6

Warning
H315-H319-H335
P264-P271-P304+P340-P305+P351+P338-P312a-P332+P313

4-Diphenylaminesulfonic acid sodium salt > RPE - For analysis - ACS

RPE

Description ..... Whitish powder Identification ..... Positive Sensitivity as indicat. ..... Conform

Code	Size	Packaging	Notes
443671	10 g	Glass bottle	
443672	25 g	Glass bottle	

Redox indicator. Purple / Red - Clear

sym-Diphenylcarbazide

sim-Difenilcarbazide • Sym-Diphénylcarbazide • sim-Difenilcarbacida

Synonym:
1,5-Diphenylcarbazide
1,5-Diphenylcarbohydrazide

$C_6H_5NHNHCONHNHC_6H_5$
Molecular Weight: 242,28
CAS: 140-22-7
EEC-N: 205-403-7

sym-Diphenylcarbazide > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description ..... White powder Melting point..... 173 ÷ 176 ° C Chromate sensitivity ..... Conform Assay (HPLC) ..... ≥ 99.0 %
Identification ..... Positive Loss on drying ..... ≤ 1 % Sulphated ash..... ≤ 0.05 %

Code	Size	Packaging	Notes
443752	25 g	Glass bottle	
443754	100 g	Glass bottle	

Redox indicator

sym-Diphenylcarbazone

sim-Difenilcarbazone • Sym-Diphénylcarbazone • sim-Difenilcarbazona

Synonym:
Phenylazoformic acid 2-phenylhydrazide

$C_6H_5N{:}NCONHNHC_6H_5$
Molecular Weight: 240,27
CAS: 538-62-5
EEC-N: 208-698-0

sym-Diphenylcarbazone > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description ..... Orange crystalline powder Acetone solubility ..... Conform Residue on ignition ..... ≤0.1 %
Identification ..... Positive Mercury sensitivity..... Conform

Code	Size	Packaging	Notes
443801	10 g	Glass bottle	

Contains sym-Diphenylcarbazide. Redox indicator

Diphenylmethanol ▶ Benzhydrol

2,5-Diphenyloxazole

2,5-Difenilossazolo • 2,5-Diphényloxazole • 2,5-Difeniloxazol

Synonym:
DPO

$C_{15}H_{11}NO$
Molecular Weight: 221,26
CAS: 92-71-7
EEC-N: 202-181-3

2,5-Diphenyloxazole > RS - For radiochemistry

RS

Description ..... White crystalline powder Identification ..... Positive

Code	Size	Packaging	Notes
443972	100 g	Plastic bottle	

Diphenylthiocarbazone

Difeniltiocarbazone • Diphénylthiocarbazone • Difeniltiocarbazona

Synonym:
Dithizone

$C_6H_5NHNHCSN{:}NC_6H_5$
Molecular Weight: 256,32
CAS: 60-10-6
EEC-N: 200-454-1

Warning
H315-H319-H335
P264-P271-P304+P340-P305+P351+P338-P312a-P332+P313

Diphenylthiocarbazone > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description ..... Black-violet powder
Identification ..... Positive
E 620/E 450 nm ..... ≥ 1.55
Heavy metals (Pb) ..... ≤ 20 ppm
Residue on ignition ..... ≤ 0.3 %
Assay (spectrophotom.) ..... ≥ 85.0 %

Code	Size	Packaging	Notes
444053	50 g	Glass jar	

2,2'-Dipyridyl

2,2'-Dipiridile • 2,2'-Dipyridyle • 2,2'-Dipiridilo

Synonym:
2,2'-Bipyridine

$C_{10}H_8N_2$
Molecular Weight: 156,19
CAS: 366-18-7
EEC-N: 206-674-4

Classification transport
ONU: 2811
Transport Hazard class: 6.1
Packing group III

Danger
H301-H311
P264-P280h-P270-P301+P310a-P312a-P330

2,2'-Dipyridyl > RPE - For analysis

RPE

Description ..... Polvere crist. quasi bianca
Identification ..... Positive
Melting point ..... 69 ÷ 72 ° C
Residue on ignition ..... ≤ 0.1 %
Iron sensitivity ..... Conform
Assay (GLC) ..... ≥ 99.0 %

Code	Size	Packaging	Notes
445958	5 g	Glass bottle	
445959	25 g	Glass bottle	

Reactive iron and molybdenum

2,6 - Di-tert-butyl-p-cresol ▶ Butylhydroxytoluene

Direct red 28 ▶ Congo red

Dithizone ▶ Diphenylthiocarbazone

1-Dodecanesulfonic acid sodium salt

Acido 1-dodecansolfonico sale sodico • Acide 1-dodecanesulfonique sel sodique • Acido 1-dodecanosulfónico sal sódica

Synonym:
Sodium 1-dodecanesulfonate
1-Dodecanesulfonic acid sodium salt

$CH_3(CH_2)_{11}SO_3Na$
Molecular Weight: 272,39
CAS: 2386-53-0

1-Dodecanesulfonic acid sodium salt > RS - For ion pair chromatography

RS

Description ..... White crystalline powder
Water (K.F.) ..... ≤ 1.0 %
Assay ..... ≥ 99.0 %
Absorbance (5% in water)
At 210 nm ..... ≤ 0.05 AU
At 220 nm ..... ≤ 0.03 AU
At 230 nm ..... ≤ 0.02 AU

Code	Size	Packaging	Notes
405881	25 g	Glass bottle	
405882	100 g	Plastic bottle	

Dodecylbenzenesulphonic acid sodium salt

Acido dodecilbenzensolfonico sale sodico • Acide dodécylbenzènesulfonique sel sodique • Acido dodecilbencensulfónico sal sódica

Synonym:
Sodium dodecylbenzenesulfonate

$C_{12}H_{25}C_6H_4.SO_3Na$
Molecular Weight: 348,49
CAS: 25155-30-0
EEC-N: 246-680-4

Warning
H302
P264-P270-P330-P301+P312a-P501a

Dodecylbenzenesulphonic acid sodium salt > RS - For surfactants detection

RS

Description ..... White-yellowish crystalline powder Identification ..... Positive Water ..... < 5.0 % Assay ..... > 83 %

Code	Size	Packaging	Notes
405351	10 g	Glass bottle	
405352	25 g	Glass bottle	

Minimum 90% biodegradability

Dodecyltrimethylammonium bromide

Dodeciltrimetilammonio bromuro • Dodécyltriméthylammonium bromure • Dodeciltrimetilamonio bromuro

Synonym:
Dodecyltrimethylammonium bromide
Lauryltrimethylammonium bromide

$CH_3(CH_2)_{11}N(CH_3)_3Br$
Molecular Weight: 308,34
CAS: 1119-94-4
EEC-N: 214-290-3

Classification transport
ONU: 3077
Transport Hazard class: 9
Packing group III

Warning
H302-H315-H319-H335-H410
P264-P273-P271-P280-P304+P340-P305+P351+P338

Dodecyltrimethylammonium bromide > RS - For ion pair chromatography

RS

Absorbance UV curve (10%)
A240nm (1M) ..... ≤ 0.2 AU A250nm (1M) ..... ≤ 0.03 AU A260nm (1M) ..... ≤ 0.02 AU A500nm (1M) ..... ≤ 0.02 AU

Code	Size	Packaging	Notes
405941	25 g	Plastic jar	
405942	100 g	Plastic bottle	

Dysprosium standard solution

Disprosio standard soluzione • Dysprosium solution standard • Disprosio, solución patrón

Classification transport
ONU: 3264
Transport Hazard class: 8
Packing group III

Dysprosium standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505582	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505585	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Dysprosium standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
504231	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
504235	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
504233	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
504237	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Dysprosium standard solution > RS - Standard solution for AAS

RS

Code	Size	Packaging	Notes
507734	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
507500	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Ehrlich's reagent
Ehrlich reattivo • Réactif d'Ehrlich • Ehrlich reactivo

Classification transport
ONU: 3264
Transport Hazard class: 8
Packing group III

Danger
H314
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Ehrlich's reagent > RS - For microscopy
RS

Description ..... Yellow clear liquid Identification ..... Positive

Code	Size	Packaging	Notes
E446302	500 ml	Glass bottle	

For urobilinogen detection

Eluent sodium bicarbonate
Eluente sodio bicarbonato • Eluant sodium dicarbonate • Eluyente sodio dicarbonato

$NaHCO_3$
Molecular Weight: 84.01
CAS: 144-55-8

Eluent sodium bicarbonate > RS - Eluent concentrates for ion chromatography
RS

Code	Size	Packaging	Notes
504534	100 ml	Plastic bottle	0.17 M Sodium bicarbonate
507578	1 l	Plastic bottle	0.5 M Sodium bicarbonate

Eluent sodium carbonate
Eluente sodio carbonato • Eluant sodium carbonate • Eluyente sodio carbonato

Synonym:
Calcined soda
Carbonic acid disodium salt

$NaHCO_3$
Molecular Weight: 84.01
CAS: 144-55-8

HEU210

Eluent sodium carbonate > RS - Eluent concentrates for ion chromatography
RS

Code	Size	Packaging	Notes
507695	1 l	Plastic bottle	0.1 M Sodium carbonate
504533	100 ml	Plastic bottle	0.5 M Sodium carbonate
507577	1 l	Plastic bottle	0.5 M Sodium carbonate

Eluent sodium carbonate/sodium bicarbonate
Eluente sodio carbonato/sodio bicarbonato • Eluant sodium carbonate/sodium dicarbonate • Eluyente sodio carbonato/sodio dicarbonato

HEU210

Eluent sodium carbonate/sodium bicarbonate > RS - Eluent concentrates for ion chromatography
RS

Code	Size	Packaging	Notes
504530	100 ml	Plastic bottle	0.18 M Sodium carbonate / 0.17 M Sodium bicarbonate
504531	100 ml	Plastic bottle	0.22 M Sodium carbonate / 0.28 M Sodium bicarbonate
504532	100 ml	Plastic bottle	0.35 M Sodium carbonate / 0.1 M Sodium bicarbonate

Eosin B

Eosina B • Eosine B • Eosina B

Synonym:
Acid Red 91
4',5'-Dibromo-2',7'-dinitrofluorescein, disodium salt

$C_{20}H_6Br_2N_2Na_2O_9$
Molecular Weight: 624,09
CAS: 548-24-3
EEC-N: 208-943-1

Eosin B > RPE - For analysis - C.I. 45400

RPE

Description ..... Brown greyish powder Identification ..... Positive Absorbtion ind.sensit. ..... Conform

Code	Size	Packaging	Notes
446602	25 g	Glass bottle	

Dye for microscopy (histology). Absorbance and fluorescence indicator

Eosin Y

Eosina Y • Eosine Y • Eosina Y

Synonym:
Acid Red 87
2',4',5',7'-Tetrabromofluorescein disodium salt

$C_{20}H_6Br_4Na_2O_5$
Molecular Weight: 691,86
CAS: 17372-87-1
EEC-N: 241-409-6

Warning
H312-H332
P271-P261-P280h-P304+P340-P312a-P302+P352a

Eosin Y > RS - For microscopy - C.I. 45380

RS

Description ..... Red-brown powder Loss on drying ..... ≤ 10 % Assay ..... 80.00 ÷ 88.00 %
Identification ..... Positive Sens. as absorption indicator ..... Conform

Code	Size	Packaging	Notes
446632	25 g	Glass bottle	
446634	100 g	Plastic bottle	

Dye for histology

Eosin Y 1% solution acqueous

Eosina Y 1% soluzione acquosa • Eosine Y 1% solution aqueuse • Eosina Y 1% solución acuosa

Synonym:
Acid Red 87
2',4',5',7'-Tetrabromofluorescein disodium salt

$C_{20}H_6Br_4Na_2O_5$ HEU210
Molecular Weight: 691,86
CAS: 17372-87-1

Eosin Y 1% solution acqueous > RS - For histology

RS

Description ..... Brown liquid Identification ..... Positive Maximum absorption ..... 515÷518 nm A 1%/1cm (0.005 g/l) ..... 1200÷1400 nm

Code	Size	Packaging	Notes
446644	1 l	Plastic bottle	

CE IVD

Eosin Y 0.5% solution alcoholic

Eosina Y 0.5% soluzione alcolica • Eosine Y 0.5% solution alcoolique • Eosina Y 0.5% solución alcohólica

Synonym:
Acid Red 87
2',4',5',7'-Tetrabromofluorescein disodium salt

$C_{20}H_6Br_4Na_2O_5$ HEU210
Molecular Weight: 691,86
CAS: 17372-87-1

Eosin Y 0.5% solution alcoholic > RS - For microscopy

RS

Code	Size	Packaging	Notes
446664	1 l	Plastic bottle	

CE IVD

Erbium standard solution

Erbio standard soluzione • Erbium solution standard • Erbio, solución patrón

Classification transport
ONU: 2837
Transport Hazard class: 8
Packing group III

Erbium standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505592	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505595	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Erbium standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
504241	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
504245	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
504243	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
504247	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Erbium standard solution > RS - Standard solution for AAS

RS

Code	Size	Packaging	Notes
507735	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
507501	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Eriochrome black T

Nero eriocromo T • Noir ériochrome T • Negro de eriocromo T

Synonym:
Mordant Black 11

$C_{20}H_{12}N_3NaO_7S$
Molecular Weight: 461,39
CAS: 1787-61-7

HEU210

Eriochrome black T > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611056801	100 g	Plastic bottle	Ref Ph.Eur 1056801

Storage: protected from light

Eriochrome black T > RPE - For analysis - C.I. 14645

RPE

Description ..... Blackish brown powder Identification ..... Positive Loss on drying ..... ≤ 10 % Sensitivity ..... Conform

Code	Size	Packaging	Notes
464221	10 g	Glass bottle	
464222	25 g	Glass bottle	

Complexometric indicator

Eriochromocyanine R

Eriocromo cianina R • Eriochrome cyanine R • Eriocromocianina R

Synonym:
Chromoxane cyanine R

$C_{23}H_{15}Na_3O_9S$
Molecular Weight: 536,4
CAS: 3564-18-9
EEC-N: 222-641-7

Warning
H315-H319-H335
P264-P271-P304+P340-P305+P351+P338-P312a-P332+P313

Eriochromocyanine R > RPE - For analysis - C.I. 43820

RPE

Description ..... Red brick powder Identification ..... Positive Alluminium sensitivity ..... ≥1 µg/ml

Code	Size	Packaging	Notes
446811	10 g	Glass bottle	
446812	25 g	Glass bottle	

For the determination of Al. Complexometric indicator

Erythrosin extra B

Eritrosina extra B • Erythrosine extra B • Eritrosina extra B

Synonym:
Acid Red 51
2',4',5',7'-Tetraiodofluorescein disodium salt

$C_{20}H_6I_4O_5Na_2$
Molecular Weight: 879,87
CAS: 16423-68-0
EEC-N: 240-474-8

Warning
H302
P264-P270-P330-P301+P312a-P501a

Erythrosin extra B > RS - For microscopy - C.I. 45430

RS

Description ..... Red brown powder Identification ..... Positive Assorbanza 524-527 nm ..... Conform Assorbività specifica 1%/1cm 930-1170

Code	Size	Packaging	Notes
446972	25 g	Glass bottle	
446971	100 g	Plastic bottle	

Dye for histology

Esbach's reagent

Esbach reattivo • Réactif d'Esbach • Esbach reactivo

HEU210

Esbach's reagent > RS - For microscopy

RS

Description ..... Yellow clear liquid Identification ..... Positive

Code	Size	Packaging	Notes
446981	1 l	Plastic bottle	

For the determination of albumin

1,2-Ethanediol ▶ Ethylene glycol

Ethanol absolute anhydrous

Etanolo assoluto anidro • Ethanol absolu anhydre • Etanol absoluto anhidro

Synonym:
Ethyl alcohol absolute anhydrous

C_2H_5OH
Molecular Weight: 46,07
CAS: 64-17-5
EEC-N: 200-578-6

Classification transport
ONU: 1170
Transport Hazard class: 3
Packing group II

Danger
H225-H319
P210-P241-P264-P303+P361+P353-P305+P351+P338-P403+P235

Ethanol absolute anhydrous > RS - For HPLC PLUS Gradient grade

RS

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 20° C ..... 0.7893 ÷ 0.7899
Refractive index at 20°C. 1.3602 ÷ 1.3622
Boiling point..... 78.3 ÷ 78.8 ° C
Acidity or alkalinity..... ≤0.0002 meq/g
Water (K.F.) ..... ≤0.05 %
Residue on evaporation ..... ≤5 ppm
Assay (GLC) ..... ≥99.9 %
Fluorescence
at 254 nm ..... ≤2 ppb
at 365 nm ..... ≤2 ppb
U.V. Transmittance
at 210 nm ..... ≥25 %
at 220 nm ..... ≥50 %
at 230 nm ..... ≥75 %
At 240 nm ..... ≥ 85 %
at 250 nm ..... ≥90 %
At 260 nm ..... ≥ 98 %
≥ 270 nm ..... ≥ 99 %
Acetal + acetaldehyde..... ≤ 10 ppm(v/v)
HPLC Gradient
At 235 nm ..... ≤ 5 mAU

Code	Size	Packaging	Notes
412701	1 l	Glass bottle	Only for Italian market
412703	1 l	Glass bottle PVC coated	Only for Italian market
4127012	1 l	Glass bottle	
4127032	1 l	Glass bottle PVC coated	
412702	2.5 l	Glass bottle	Only for Italian market
4127022	2.5 l	Glass bottle	

Ethanol absolute anhydrous > RS - For HPLC - Isocratic Grade

RS

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 20° C ..... 0.7893 ÷ 0.7899
Refractive index at 20°C. 1.3602 ÷ 1.3622
Boiling point..... 78.3 ÷ 78.8 ° C
Acidity or alkalinity..... ≤0.0002 meq/g
Water (K.F.) ..... ≤0.05 %
Residue on evaporation ..... ≤5 ppm
Assay (GLC) ..... ≥99.9 %
U.V. Transmittance
at 210 nm ..... ≥25 %
at 220 nm ..... ≥50 %
at 230 nm ..... ≥75 %
At 240 nm ..... ≥ 80 %
at 250 nm ..... ≥90 %
at 270 nm ..... ≥94 %
at 290 nm ..... ≥97 %

Code	Size	Packaging	Notes
412521	1 l	Glass bottle	Only for Italian market
4125212	1 l	Glass bottle	
412522	2.5 l	Glass bottle	Only for Italian market
4125222	2.5 l	Glass bottle	

Ethanol absolute anhydrous > RS - SPECTROSOL - For optical spectroscopy

RS

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 20° C ..... 0.7893 ÷ 0.7899
Boiling point..... 78.3 ÷ 78.8 ° C
Acidity or alkalinity..... ≤0.0002 meq/g
Water (K.F.) ..... ≤0.2 %
Residue on evaporation ..... ≤10 ppm
Assay (GLC) ..... ≥99.8 %
Fluorescence
at 254 nm ..... ≤2 ppb
at 365 nm ..... ≤2 ppb
U.V. Transmittance
at 210 nm ..... ≥25 %
at 220 nm ..... ≥50 %
at 230 nm ..... ≥75 %
at 250 nm ..... ≥89 %
at 270 nm ..... ≥94 %
at 290 nm ..... ≥97 %

Code	Size	Packaging	Notes
414677	1 l	Glass bottle	Only for Italian market
4146772	1 l	Glass bottle	

Ethanol absolute anhydrous > RS - Anhydrous - For analysis

RS

Refractive index at 20°C..... 1.358 - 1.362
Water content (K.F.) ..... ≤ 200 mg/Kg
Colour ..... ≤ 10 Hazen
Alcohol content (20°C)..... ≥ 99.9 % V/V
Non volatile residue ..... ≤ 10 mg/Kg
Assay (GC)..... ≥ 99.8 %
Free acid (as CH3COOH)..... ≤ 10 mg/Kg
Aldehydes (as acetaldehyde) ..... ≤ 3 mg/Kg
Esters (as CH3COOC2H5) ..... ≤ 25 mg/Kg

Code	Size	Packaging	Notes
P013A1010	200 ml	Bottle with septum	
P013A1016	1 l	Glass bottle	
P013A1021	2.5 l	Glass bottle	

Ethanol absolute anhydrous > RS - VLSI For electronic use

RS

Code	Size	Packaging	Notes
527681	1 l	Glass bottle	
527680	2.5 l	Glass bottle	

For specifications, contact our customer service for a certificate of analysis

Ethanol absolute anhydrous > RS - RSE - For electronic use

RS

Description	Clear colourless liquid
Colour (APHA)	≤10
Identification	Positive
Water miscibility	Conform
Ready carbonizable substances	Conform
Density at 20° C	0.790 ÷ 0.793
Boiling point	78.3 ÷ 78.8 ° C
Resistivity	≥0.5 Mohm cm
Assay(alcohol.) at 20°C	≥99.9 %
Water (K.F.)	≤0.1 %
Residue on evaporation	≤10 ppm
Acidity (acetic acid)	≤10 ppm
Alcalinity (NH3)	≤1 ppm
Methyl alcohol	≤100 ppm
Chloride	≤0.2 ppm
Carbonyl Compounds (CO)	≤10 ppm
Total phosphorus	≤0.1 ppm
Heavy metals (Pb)	≤0.2 ppm
Subst. reducing KMnO4	≤2.5 ppm
Total sulphur	≤1 ppm
Ag	≤0.02 ppm
Al	≤0.05 ppm
As	≤0.01 ppm
Au	≤0.05 ppm
B	≤0.01 ppm
Ba	≤0.1 ppm
Be	≤0.02 ppm
Bi	≤0.02 ppm
Ca	≤0.5 ppm
Cd	≤0.01 ppm
Co	≤0.01 ppm
Cr	≤0.02 ppm
Cu	≤0.02 ppm
Fe	≤0.1 ppm
Ga	≤0.02 ppm
In	≤0.02 ppm
K	≤0.1 ppm
Li	≤0.02 ppm
Mg	≤0.1 ppm
Mn	≤0.01 ppm
Mo	≤0.05 ppm
Na	≤0.5 ppm
Ni	≤0.01 ppm
Pb	≤0.02 ppm
Pt	≤0.05 ppm
Sb	≤0.01 ppm
Sn	≤0.02 ppm
Sr	≤0.02 ppm
Ti	≤0.05 ppm
Tl	≤0.05 ppm
V	≤0.05 ppm
Zn	≤0.03 ppm
Zr	≤0.05 ppm

Code	Size	Packaging	Notes
414587	1 l	Glass bottle	Only for Italian market
4145872	1 l	Glass bottle	
414583	2.5 l	Glass bottle	Only for Italian market
4145832	2.5 l	Glass bottle	

Ethanol absolute anhydrous > RS - MOS For electronic use

RS

Description	Clear colourless liquid
Colour (APHA)	≤10
Identification	Positive
Water miscibility	Conform
Ready carbonizable substances	Conform
Density at 20° C	0.7893 ÷ 0.7899
Boiling point	78.3 ÷ 78.8 ° C
Resistivity	≥0.5 Mohm cm
Assay (GLC)	≥99.9 %
Water (K.F.)	≤0.1 %
Residue on evaporation	≤10 ppm
Acidity (acetic acid)	≤10 ppm
Alcalinity (NH3)	≤1 ppm
Methyl alcohol	≤100 ppm
Chloride	≤0.2 ppm
Carbonyl Compounds (CO)	≤10 ppm
Phosphate	≤0.5 ppm
Heavy metals (Pb)	≤0.2 ppm
Subst. reducing KMnO4	≤2.5 ppm
Total sulphur	≤1 ppm
Ag	≤0.02 ppm
Al	≤0.05 ppm
As	≤0.01 ppm
Au	≤0.05 ppm
B	≤0.01 ppm
Ba	≤0.1 ppm
Be	≤0.02 ppm
Bi	≤0.02 ppm
Ca	≤0.5 ppm
Cd	≤0.01 ppm
Co	≤0.01 ppm
Cr	≤0.02 ppm
Cu	≤0.02 ppm
Fe	≤0.1 ppm
Ga	≤0.02 ppm
In	≤0.02 ppm
K	≤0.1 ppm
Li	≤0.02 ppm
Mg	≤0.1 ppm
Mn	≤0.01 ppm
Mo	≤0.05 ppm
Na	≤0.5 ppm
Ni	≤0.01 ppm
Pb	≤0.02 ppm
Pt	≤0.05 ppm
Sb	≤0.01 ppm
Sn	≤0.02 ppm
Sr	≤0.02 ppm
Ti	≤0.05 ppm
Tl	≤0.05 ppm
V	≤0.05 ppm
Zn	≤0.03 ppm
Zr	≤0.05 ppm

Code	Size	Packaging	Notes
414692	2.5 l	Glass bottle	

Ethanol absolute anhydrous > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description	Clear colourless liquid
Colour	≤ 10 APHA
Identification (I.R.)	Positive
Water miscibility	Complete
Density at 20°C	0.7893 ÷ 0.7899
Boiling point	78.3 ÷ 78.8 °C
Refractive index at 20°C	1.3602 ÷ 1.3622
Water (K.F.)	≤ 0.1 %
Residue on evaporation	≤ 10 ppm
Substances darkened by H2SO4	Conform
Acidity (acetic acid)	≤ 10 ppm
Alcalinity (NH3)	≤ 1 ppm
Isopropyl alcohol	≤ 30 ppm
Methyl alcohol	≤ 100 ppm
Benzene	≤ 2 ppm(v/v)
Carbonyl compounds (CO)	≤ 5 ppm
Subs. reducing KMnO4	≤ 3 ppm
Heavy metals (Pb)	≤ 1 ppm
Absorbance UV (5cm, ref. water)	Conform
Assay (CPG)	≥ 99.9 %
Assay (alcohometric) at 20°C	≥ 99.9 %v/v
Volatil impurities	Conform
Al	≤ 0.5 ppm
B	≤ 0.02 ppm
Ba	≤ 0.1 ppm
Ca	≤ 0.5 ppm
Cd	≤ 0.05 ppm
Co	≤ 0.02 ppm
Cr	≤ 0.02 ppm
Cu	≤ 0.02 ppm
Fe	≤ 0.1 ppm
Mg	≤ 0.1 ppm
Mn	≤ 0.02 ppm
Ni	≤ 0.02 ppm
Pb	≤ 0.1 ppm
Sn	≤ 0.1 ppm
Acetal + acetaldehyde	≤ 10 ppm(v/v)

Code	Size	Packaging	Notes
414601	1 l	Plastic bottle	Only for Italian market
414607	1 l	Glass bottle	Only for Italian market
4146012	1 l	Plastic bottle	
4146072	1 l	Glass bottle	
414605	2.5 l	Plastic bottle	Only for Italian market
414608	2.5 l	Glass bottle	Only for Italian market
4146052	2.5 l	Plastic bottle	
4146082	2.5 l	Glass bottle	
414603	5 l	Aluminium can	
414606	5 l	Plastic bottle	
524125	5 l	Plastic tank	
414604	10 l	Plastic tank	
414609	25 l	Plastic tank	
414602	200 l	Plastic drum	

Ethanol absolute anhydrous > ERBApharm - According to pharmacopoeia : Ph.Eur.-USP-BP-JP

ERBApharm

Description ..... Clear colourless liquid
Identification (I.R.)..... Positive
Color of solution ..... Pass test
Clarity of solution..... Pass test
Density at 20°C ..... 0.790 - 0.793
Density at 15.56°C ..... ≤ 0.7962
Boiling point..... 78 - 79 °C
Residue on evaporation ..... ≤ 25 ppm(m/v)
Assay (alcohometric) at 15,56°C..... ≥ 99.5 %(v/v)
Assay (alcohometric) at 20°C.. ≥ 99.5 %v/v
Acidity or alcalinity..... ≤ 30 ppm
Volatil impurities..... Pass test
Methyl alcohol..... ≤ 200 ppm(v/v)
Acetal + acetaldehyde..... ≤ 10 ppm(v/v)
Benzene ..... ≤ 2 ppm(v/v)
Total other impurities..... ≤ 300 ppm(v/v)
Water (K.F.) ..... ≤ 0.1 %
Absorbance UV (5cm, ref. water) .. Pass test
At 240 nm ..... ≤ 0.40 AU
From 250 to 260 nm..... ≤ 0.30 AU
From 270 to 340 nm..... ≤ 0.10 AU
235 - 340 nm..... Smooth curve
Origin (BSE/TSE)..... Vegetable
Residual solvents (Current ICH)..... Conform

Code	Size	Packaging	Notes
529121	1 l	Glass bottle	
308661	2.5 l	Plastic bottle	Only for Italian market
308662	2.5 l	Glass bottle	Only for Italian market
3086612	2.5 l	Plastic bottle	
3086622	2.5 l	Glass bottle	
529122	5 l	Plastic tank	
529124	10 l	Plastic tank	
308664	25 l	Polythene-metal drum	
308667	25 l	Plastic tank	
308663	200 l	Plastic drum	
529125	200 l	Plastic drum	

Ethanol absolute anhydrous > RE - Pure

RE

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 20° C ..... 0.7866 ÷ 0.7926
Boiling point..... 78.0 ÷ 79.0 ° C
Water (K.F.) ..... ≤0.1 %
Residue on evaporation ..... ≤30 ppm
Acidity (acetic acid)..... ≤50 ppm
Assay(alcohol.) at 20°C ..... ≥99.9 % (v/v)

Code	Size	Packaging	Notes
308602	1 l	Plastic bottle	Only for Italian market
308607	1 l	Glass bottle	Only for Italian market
308608	1 l	Plastic bottle	Origin : synthesis
3086022	1 l	Plastic bottle	
3086072	1 l	Glass bottle	
308603	2.5 l	Glass bottle	Only for Italian market
308605	2.5 l	Plastic bottle	Only for Italian market
3086032	2.5 l	Glass bottle	
3086052	2.5 l	Plastic bottle	
528131	5 l	Plastic tank	
308609	10 l	Plastic tank	
308601	25 l	Metal drum	
308604	25 l	Plastic tank	
308600	200 l	Metal drum	

Ethanol 96°

Etanolo 96° • Ethanol 96° • Etanol 96°

Synonym:
Ethyl alcohol 96°

C_2H_5OH
Molecular Weight: 46,07
CAS: 64-17-5

Classification transport
ONU: 1170
Transport Hazard class: 3
Packing group II

Danger
H225-H319
P210-P241-P264-P303+P361+P353-P305+P351+P338-P403+P235

Ethanol 96° > RS - For HPLC - Isocratic Grade

RS

Description ..... Clear colourless liquid
Colour ..... ≤ 10 APHA
Identification (I.R.)..... Positive
Density at 20°C .....0.8050 ÷ 0.8124
Boiling point..... 78.0 ÷ 79.0 °C
Acidity ..... ≤ 0.0002 meq/g
Residue on evaporation .....≤ 5 ppm
Assay (alcohometric) at 20°C..96.0 ÷ 96.3
%v/v
Transmittance
At 210 nm ..... ≥ 30 %
At 254 nm ..... ≥ 96 %
At 280 nm ..... ≥ 98 %
Assay (CPG) ..... ≥ 99.8 %

Code	Size	Packaging	Notes
4145412	1 l	Glass bottle	
4145422	2.5 l	Glass bottle	
414541	1 l	Glass bottle	Only for Italian market
414542	2.5 l	Glass bottle	Only for Italian market

Ethanol 96° > RS - SPECTROSOL - For optical spectroscopy

RS

Description ..... Clear colourless liquid
Colour (APHA) ..... ≤10
Identification ..... Positive
Density at 20° C .....0.8050 ÷ 0.8124
Boiling point..... 78.0 ÷ 79.0 ° C
Acidity or alkalinity.....≤0.0005 meq/g
Residue on evaporation .....≤10 ppm
Assay(alcohol.) at 20°C ..... ≥96.0 %(v/v)
Fluorescence
at 254 nm .....≤2 ppb
at 365 nm .....≤2 ppb
U.V. Transmittance
at 210 nm ..... ≥35 %
at 220 nm ..... ≥55 %
at 230 nm ..... ≥72 %
at 250 nm ..... ≥90 %
at 270 nm ..... ≥98 %

Code	Size	Packaging	Notes
414667	1 l	Glass bottle	Only for Italian market
4146672	1 l	Glass bottle	

Ethanol 96° > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611002501	1 l	Glass bottle	Ref Ph.Eur 1002501

Ethanol 96° > RPE - For analysis - ACS - Reag. Ph.Eur.

RPE

Description ..... Clear liquid
Colour (APHA) ..... ≤10
Identification (I.R.)..... Positive
Appearance of solution .....Conform USP
Absorbance ..... Conform Ph Eur
Volatile impurities..... Conform Ph Eur
Water miscibility.....Conform ACS
Substances darkened by sulphuric acid ..... Conform ACS
Density at 20° C .....0.8050 ÷ 0.8124
Boiling point..... 78.0 ÷ 79.0 ° C
Residue on evaporation .....≤10 ppm
Acidity (acetic acid).....≤30 ppm
Alcalinity (NH3).....≤0.0002 meq/g
Alcole isopropilico-acetone .....Conform
Methyl alcohol..... ≤0.1 %
Carbonyl Compounds (CO) .....≤5 ppm
Acetal + acetaldehyde.....≤ 10 ppm(v/v)
Subst. reducing KMnO4.....≤3 ppm
Ba.....≤0.1 ppm
Ca.....≤0.5 ppm
Cd.....≤0.05 ppm
Co.....≤0.02 ppm
Cr.....≤0.02 ppm
Cu.....≤0.02 ppm
Fe .....≤0.1 ppm
Mg .....≤0.1 ppm
Mn .....≤0.02 ppm
Ni.....≤0.02 ppm
Pb .....≤0.1 ppm
Sn .....≤0.1 ppm
Zn .....≤0.1 ppm
Assay(alcohol.) at 20°C96.0 ÷ 96.9 % (v/v)
Assay (GLC) ..... ≥95.0 %

Code	Size	Packaging	Notes
414634	1 l	Plastic bottle	Only for Italian market
414637	1 l	Glass bottle	Only for Italian market
4146342	1 l	Plastic bottle	
4146372	1 l	Glass bottle	
414631	2.5 l	Glass bottle	Only for Italian market
414632	2.5 l	Plastic bottle	Only for Italian market
4146312	2.5 l	Glass bottle	
4146322	2.5 l	Plastic bottle	
414635	5 l	Plastic tank	
414638	10 l	Plastic tank	
414639	25 l	Plastic tank	
414633	200 l	Plastic drum	

Ethanol 96° > ERBApharm - According to pharmacopoeia : Ph.Eur.- Microbiological tested

ERBApharm

Description ..... Clear colourless liquid
Identification (I.R.)..... Positive
Appearance of solution ..... Pass test
Acidity or alcalinity..... Pass test
Absorbance UV (5cm, ref. water) .. Pass test
Volatil impurities..... Pass test
Density at 20°C ..... 0.805 - 0.812
Boiling point..... 78 - 79 °C
Residue on evaporation ... ≤ 0.0025 %(m/v)
Assay (alcohometric) at 20°C... 95.1 - 96.9 %v/v
Origin (BSE/TSE)..... Vegetable
Total aerobic microbial count (TAMC) .... ≤ 5 CFU/100ml
Total yeasts/mould count (TYMC)..... ≤ 5 CFU/100ml
Test of specified micro-organisms
Enterobacteriaceae..... Absent/100 ml
Staphylococcus aureus..... Absent/100 ml
Residual solvents (Current ICH)..... Conform

Code	Size	Packaging	Notes
524135	5 l	Plastic tank	
524132	25 l	Plastic tank	

Ethanol 96° > ERBApharm - According to pharmacopoeia : Ph.Eur.-USP

ERBApharm

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 20° C ..... 0.805 ÷ 0.812
Densità a 15.5°C ..... 0.812 ÷ 0.816
Acidity or alkalinity..... Conform Ph.Eur.
Residue on evaporation ..... ≤0.0025 % m/v
Assay(densim.) at 15.5° 94.9 ÷ 96.0 % v/v
Assay(alcohol.) at 20°C .95.1 ÷ 96.9 % v/v
Appearance of solution ..... Conform Ph.Eur.
Boiling point..... ~ 78 ° C
Origin (BSE/TSE)..... Vegetable
Residual solvents (Current ICH)..... Conform
Color of solution ..... Conform USP-NF
Clarity of solution..... Conform USP-NF
Volatil impurities..... Pass test Ph.Eur.
Methyl alcohol..... ≤ 200 ppm(v/v)
Acetal + acetaldehyde..... ≤ 10 ppm(v/v)
Benzene ..... ≤ 2 ppm(v/v)
Total other impurities..... ≤ 300 ppm(v/v)
Absorbance UV (5cm, ref. water) .. Pass test
At 240 nm ..... ≤ 0.40 AU
From 250 to 260 nm..... ≤ 0.30 AU
From 270 to 340 nm..... ≤ 0.10 AU
235 - 340 nm..... Smooth curve

Code	Size	Packaging	Notes
308644	1 l	Plastic bottle	Only for Italian market
308647	1 l	Glass bottle	Only for Italian market
3086442	1 l	Plastic bottle	
3086472	1 l	Glass bottle	
308641	2.5 l	Glass bottle	Only for Italian market
308649	2.5 l	Plastic bottle	Only for Italian market
3086412	2.5 l	Glass bottle	
3086492	2.5 l	Plastic bottle	
529141	5 l	Plastic tank	
308646	10 l	Plastic tank	
308645	25 l	Plastic tank	
308648	27 l	Polythene-metal drum	
308640	200 l	Plastic drum	

Ethanol 96° > RE - Pure

RE

Description ..... Clear colourless liquid
Colour ..... ≤ 10 APHA
Identification ..... Positive
Water miscibility..... Complete
Acidity (acetic ac) ..... ≤ 0.005 %
Boiling point..... 78 ÷ 79.5 °C
Assay GLC ..... ≥ 99 %
Density ..... 0.805 ÷ 0.8125
Residue on evaporation ..... ≤ 25 ppm
Assay (alcohol)..... 95 ÷ 96.9 % (v/v)
Assay (GLC) ..... ≥ 99 %

Code	Size	Packaging	Notes
528151	5 l	Plastic tank	
528152	10 l	Plastic tank	
528154	20 l	Plastic tank	
529152	25 l	Plastic tank	
528153	200 l	Metal drum	

Ethanol 70 % v/v

Etanolo 70 % v/v • Ethanol 70 % v/v • Etanol 70 % v/v

Synonym:
Ethyl alcohol 70%

C_2H_5OH
Molecular Weight: 46,07
CAS: 64-17-5

Classification transport
ONU: 1170
Transport Hazard class: 3
Packing group II

Danger
H225-H319
P210-P241-P264-P303+P361+P353-P305+P351+P338-P403+P235

Ethanol 70 % v/v > ERBApharm - According to pharmacopoeia : Ph.Eur.

ERBApharm

Description ..... Clear colourless liquid
Identification (I.R.)..... Positif
Identity (IR)..... Positive
Assay (alcohometric) at 20°C..... 69 ÷ 71 %v/v
Assay (alcohol)..... 69 ÷ 71 % (v/v)

Code	Size	Packaging	Notes
529187	500 ml	Spray bottle	20 units / box
529189	5 l	Plastic tank	
529183	200 l	Plastic drum	

Ethanol 70 % v/v > ERBApharm - According to pharmacopoeia : BP-Ph.Eur.

ERBApharm

Description ..... Clear colourless liquid
Volatil impurities (GC).....Passed test
Residue on evaporation .....≤ 25 ppm(m/v)
Acidity (acetic acid)..... ≤ 30 ppm
Apparent density .....882.2 ÷ 887.1 kg/m3
Assay (alcohometric) at 20°C.....69.0 ÷ 71.0 %v/v

Code	Size	Packaging	Notes
529184	1 l	Spray bottle	6 units / box

Ethanol 70 % v/v > RE - Pure

RE

Description .....Clear liquid
Identity (IR).....Positive
Colour .....Incolore
Assay (alcohol).....69 ÷ 71 % (v/v)
Identification .....Positive
Acidity ..... ≤ 0.003 %
Alcalinity.....≤ 3 ppm
Methanol .....≤ 100 ppm
Residue on evaporation .....≤ 30 ppm
Water miscibility.....Conform ACS
Substances darkened by sulphuric acid ..... Conform ACS
Substances reducing KMnO4 (O)...≤ 3 ppm
Assay(alcohol.) at 20°C ..... ≥ 70 % (v/v)

Code	Size	Packaging	Notes
308771	2.5 l	Bottle	
528170	5 l	Plastic tank	
529186	10 l	Plastic tank	
308775	25 l	Plastic tank	

Ethanol 60 % v/v

Etanolo 60 % v/v • Ethanol 60 % v/v • Etanol 60 % v/v

Synonym:
Ethyl alcohol 60%

C_2H_5OH
Molecular Weight: 46,07
CAS: 64-17-5
EEC-N: 200-578-6

Classification transport
ONU: 1170
Transport Hazard class: 3
Packing group II

Danger
H225-H319
P210-P241-P264-P303+P361+P353-P305+P351+P338-P403+P235

Ethanol 60 % v/v > RE - Pure

RE

Description ..... Clear colourless liquid
Assay (alcohol) ..... 59.0 ÷ 61.0 % (v/v)

Code	Size	Packaging	Notes
529180	5 l	Plastic tank	

Ethanol 50% v/v

Etanolo 50% v/v • Ethanol 50% v/v • Etanol 50% v/v

Synonym:
Ethyl alcohol 50%

C_2H_5OH
Molecular Weight: 46,07
CAS: 64-17-5

Classification transport
ONU: 1170
Transport Hazard class: 3
Packing group II

Danger
H225-H319
P210-P241-P264-P303+P361+P353-P305+P351+P338-P403+P235

Ethanol 50% v/v > ERBApharm - Prepared from raw material according Ph.Eur

ERBApharm

Description ..... Clear colourless liquid
Residue on evaporation .....≤ 25 ppm
Acidity (acetic acid).....≤ 30 ppm
Volatil impurities (GC)..... Pass test
Assay (alcohometric) at 20°C.....49.0 - 51.0 %v/v

Code	Size	Packaging	Notes
529261	5 l	Plastic tank	

Ethanol absolute denaturated

Etanolo assoluto denaturato • Ethanol absolu dénaturé • Etanol absoluto desnaturalizado

Synonym:
Ethyl alcohol absolute denaturated

C_2H_5OH
Molecular Weight: 46,07
CAS: 64-17-5

Classification transport
ONU: 1170
Transport Hazard class: 3
Packing group II

Danger
H225-H319
P210-P241-P264-P303+P361+P353-P305+P351+P338-P403+P235

Ethanol absolute denaturated > RE - Pure - According to European regulation

RE

Description ..... Clear colourless liquid Colour ..... ≤ 10 APHA Density at 20°C ..... 0.787 ÷ 0.793 Assay (alcohol) ..... ≥ 99.2 % (v/v)

Code	Size	Packaging	Notes
528031	1 l	Glass bottle	
528035	2.5 l	Glass bottle	
528033	5 l	Metal tank	
528034	5 l	Plastic tank	
528036	10 l	Plastic tank	
528032	25 l	Plastic tank	

According to the commission implementing regulation (EU) No 162/2013 of 21 February 2013 amending the Annex to Regulation (EC) No 31 99/93 . Eurodenaturant : 3 litres of isopropyl alcohol (IPA), 3 litres of methyl ethyl ketone (MEK) and of 1 gram of denatonium benz oate per hectolitre of absolute alcohol

Ethanol absolute denaturated > RE - Pure - According to italian denaturating procedure

RE

Description ..... Clear pink liquid Density at 15° C ..... ~ 0.796 Assay(alcohol.) at 20°C ..... ≥ 99.5 % (V/V)
Identification ..... Positive Boiling point ..... 77 ÷ 79 °C

Code	Size	Packaging	Notes
308651	1 l	Plastic bottle	
308653	5 l	Plastic bottle	
308656	10 l	Plastic tank	
308655	25 l	Metal tank	
308652	200 l	Metal drum	

Denaturing procedures authorized only on Italian market

Ethanol 95° denaturated

Etanolo 95° denaturato • Ethanol 95° dénaturé • Etanol 95° desnaturalizado

Synonym:
Ethyl alcohol 95° denaturated

C_2H_5OH
Molecular Weight: 46,07
CAS: 64-17-5

Classification transport
ONU: 1170
Transport Hazard class: 3
Packing group II

Danger
H225-H319
P210-P241-P264-P303+P361+P353-P305+P351+P338-P403+P235

Ethanol 95° denaturated > RE - Pure - According to European regulation

RE

Description ..... Clear colourless liquid Colour ..... ≤ 10 APHA Density at 20°C ..... 0.804 ÷ 0.812 Assay (alcohol) ..... 94.8 ÷ 96.8 % (v/v)

Code	Size	Packaging	Notes
528181	1 l	Glass bottle	
528185	5 l	Plastic tank	
528182	10 l	Plastic tank	
528183	25 l	Plastic tank	
528184	200 l	Metal drum	

According to the commission implementing regulation (EU) No 162/2013 of 21 February 2013 amending the Annex to Regulation (EC) No 31 99/93 . Eurodenaturant : 3 litres of isopropyl alcohol (IPA), 3 litres of methyl ethyl ketone (MEK) and of 1 gram of denatonium benz oate per hectolitre of absolute alcohol

Ethanol 94° denaturated

Etanolo 94° denaturato • Ethanol 94° dénaturé • Etanol 94° desnaturalizado

Synonym:
Ethyl alcohol 94° denaturated

C_2H_5OH
Molecular Weight: 46,07
CAS: 64-17-5

Classification transport
ONU: 1170
Transport Hazard class: 3
Packing group II

Danger
H225-H319
P210-P241-P264-P303+P361+P353-P305+P351+P338-P403+P235

Ethanol 94° denaturated > RE - Pure - According to italian denaturating procedure

RE

Description .....Clear pink liquid Identification .....Positive Density at 15° C .....0.815 ÷ 0.825 Assay(alcohol.) at 20°C .....92 ÷ 96 %

Code	Size	Packaging	Notes
308621	1 l	Plastic bottle	
308623	5 l	Plastic bottle	
308625	10 l	Plastic tank	
308624	25 l	Metal tank	

Denaturing procedures authorized only on Italian market

Ethanol 90° denaturated

Etanolo 90° denaturato • Ethanol 90° dénaturé • Etanol 90° desnaturalizado

Synonym:
Ethyl alcohol 90° denaturated

C_2H_5OH
Molecular Weight: 46,07
CAS: 64-17-5

Classification transport
ONU: 1170
Transport Hazard class: 3
Packing group II

Danger
H225-H319
P210-P241-P264-P303+P361+P353-P305+P351+P338-P403+P235

Ethanol 90° denaturated > RE - Pure - According to italian denaturating procedure

RE

Description .....Clear pink liquid Identification .....Positive Density at 15° C .....0.830 ÷ 0.840 Assay(alcohol.) at 20°C .....88 ÷ 92 %

Code	Size	Packaging	Notes
308681	1 l	Plastic bottle	
308683	5 l	Plastic bottle	
308682	25 l	Metal tank	
308687	160 kg	Metal drum	

Denaturing procedures authorized only on Italian market

Ethanol 70°modified

Etanolo 70° modificato • Ethanol 70° modifié • Etanol 70° modificada

Synonym:
Ethyl alcohol 70° denaturated

C_2H_5OH
Molecular Weight: 46,07
CAS: 64-17-5

Classification transport
ONU: 1170
Transport Hazard class: 3
Packing group III

Warning
H226-H319
P210-P241-P264-P303+P361+P353-P305+P351+P338-P403+P235

Ethanol 70°modified > RE - Pure

RE

Assay .....69.5 ÷ 71.5 % v/v Density at 20°C .....0.881 ÷ 0.886

Code	Size	Packaging	Notes
528191	5 l	Plastic tank	
528192	20 l	Plastic tank	

Colored Yellow. Modified with camphor and tartrazine

Ethanol with 5% Isopropanol (w/w)

Etanolo con 5% Isopropanolo (m/m) • Ethanol avec 5% Isopropanol (m/m) • Etanol con 5% propanol-2 (p/p)

C_2H_5OH
Molecular Weight: 46,07
CAS: 64-17-5

Classification transport
ONU: 1987
Transport Hazard class: 3
Packing group II

Danger
H225-H319
P210-P241-P264-P303+P361+P353-P305+P351+P338-P403+P235

Ethanol with 5% Isopropanol (w/w) > RS - For analysis

RS

Description ..... Clear colourless liquid
Identification A ..... Positive
Identification B ..... Positive
Appearance of solution .....Conform Ph.Eur.
Acidity or alkalinity.....Conform Ph.Eur.

Relative density .....0.8034÷0.8085 Ph.Eur.
Absorbance
at 240 nm ..... ≤0.40 AU
at 250 - 260 nm ..... ≤ 0.30 AU
at 270 - 340 nm ..... ≤0.10 AU

Volatile impurities .....Conform Ph.Eur.
Methanol .....≤200 ppm
Acetalduhyde + acetal.....≤10 ppm
Benzene .....≤2 ppm
Other impurities .....≤300 ppm

Residue on evaporation .....≤25 ppm
Assay (GC)..... ≤ 5.5 % m/m
Microbial tests .....≤100 cfu/ml

Code	Size	Packaging	Notes
414591	5 kg	Plastic tank	

Ethanol-d6 anhydrous

Etanolo anidro-d6 • Ethanol anhydre-d6 • Etanol anhidro-d6

Synonym:
Ethanol-d6
Ethyl alcohol-d6

C_2D_5OD
Molecular Weight: 52,11
CAS: 1516-08-1
EEC-N: 216-162-2

Classification transport
ONU: 1170
Transport Hazard class: 3
Packing group II

Danger
H225
P210-P241-P243-P280-P303+P361+P353-P403+P235

Ethanol-d6 anhydrous > RS - For NMR - min 99%

RS

Code	Size	Packaging	Notes
P5262A	2 x 1 ml	Glass ampoule	

Ethanolamine

Etanolammina • Ethanolamine • Etanolamina

Synonym:
2-Aminoethanol

$NH_2CH_2CH_2OH$
Molecular Weight: 61,08
CAS: 141-43-5
EEC-N: 205-483-3

Classification transport
ONU: 2491
Transport Hazard class: 8
Packing group III

Danger
H302-H312-H332-H314
P264-P271-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Ethanolamine > RPE - For analysis

RPE

Description ..... Clear colourless liquid
Identification ..... Positive
Water miscibility.....Conform
Alcohol miscibility..... Complete

Refractive index at 20°C.1.4491 ÷ 1.4591
Boiling point..... 169.5 ÷ 170.5 °C
Melting point..... 9.8 ÷ 10.8 ° C
Chloride.....≤10 ppm

Diethanolamine ..... ≤0.5 %
Heavy metals (Pb).....≤2 ppm
Sulphate .....≤20 ppm
Triethanolamine..... ≤0.5 %

Fe .....≤1 ppm
Assay (alkalimetric)..... ≥99 %

Code	Size	Packaging	Notes
447351	1 l	Glass bottle	
447352	30 kg	Aluminium can	

Hygroscopic product. Store well sealed in a dry place

Ethyl acetate

Etile acetato • Ethyle acétate • Etilo acetato

$CH_3COOC_2H_5$
Molecular Weight: 88,11
CAS: 141-78-6
EEC-N: 205-500-4

Classification transport
ONU: 1173
Transport Hazard class: 3
Packing group II

Danger
H225-H319-H336-HEU066
P210-P241-P264-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

Ethyl acetate > RS - For LC/MS

RS

Description ..... Clear colourless liquid
Colour ..... ≤ 10 APHA
Identification (I.R.)..... Positive
Refractive index at 20°C..... 1.370 - 1.374
Water (K.F.) ..... ≤ 200 ppm
Residue on evaporation ..... ≤ 2 ppm
Acidity (acetic acid)..... ≤ 0.0030 %
Alcalinity (NH3)..... ≤ 0.0005 %
Assay (CPG) ..... ≥ 99.95 %
Transmittance
At 260 nm ..... ≥ 75 %
At 275 nm ..... ≥ 97 %
At 300 nm ..... ≥ 98 %
Metals compounds
Al ..... ≤ 50 ppb
Fe ..... ≤ 50 ppb
Na..... ≤ 50 ppb
Ca..... ≤ 50 ppb
Mg ..... ≤ 50 ppb
K..... ≤ 50 ppb

Code	Size	Packaging	Notes
448383	1 l	Glass bottle	
448384	2.5 l	Glass bottle	

Ethyl acetate > RS - For HPLC - Isocratic Grade

RS

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 20° C ..... 0.898 ÷ 0.902
Refractive index at 20°C. 1.3699 ÷ 1.3739
Boiling point..... 76.9 ÷ 77.4 ° C
Water (K.F.) ..... ≤200 ppm
Residue on evaporation ..... ≤2 ppm
Acidity or alkalinity..... ≤0.0015 meq/g
Assay (GLC) ..... ≥99.9 %
U.V. Transmittance
at 260 nm ..... ≥76 %
at 270 nm ..... ≥94 %
at 280 nm ..... ≥98 %
Methyl alcohol..... ≤ 100 ppm
Ethyl alcohol ..... ≤ 400 ppm

Code	Size	Packaging	Notes
412611000	1 l	Glass bottle	
412612000	2.5 l	Glass bottle	

Filtered through 0.2 µm membrane

Ethyl acetate > RS - For preparative HPLC - Reag.Ph.Eur.

RS

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 20° C ..... 0.901 ÷ 0.902
Refractive index at 20°C. 1.3699 ÷ 1.3739
Boiling point..... 76.9 ÷ 77.4 ° C
Water (K.F.) ..... ≤ 300 ppm
Residue on evaporation ..... ≤ 5 ppm
Assay (GLC) ..... ≥ 99.9 %
U.V. Transmittance
at 265 nm ..... ≥ 80 %
at 280 nm ..... ≥ 97 %

Code	Size	Packaging	Notes
448211	2.5 l	Glass bottle	

Ethyl acetate > RS - ATRASOL - For analysis of volatile traces

RS

Refractive index at 20°C..... 1.370 - 1.374
Water content (K.F.) ..... ≤ 150 mg/Kg
Colour ..... ≤ 10 Hazen
Methanol ..... ≤ 100 mg/Kg
Non volatile residue ..... ≤ 2 mg/Kg
Ethanol ..... ≤ 200 mg/Kg
Assay (GC) ..... ≥ 99.8 %
Free acid (as CH3COOH)..... ≤ 30 mg/Kg
GC (FID) - NC Atrasol ..... Conform
GC-ECD.Individual peak (Lindane) .. ≤ 2 ng/l
Retention time trichlorobenzene to mirex
GC-FID.Individ. peak (hexadecane) . ≤ 5 µg/l
Retention time range over toluène

Code	Size	Packaging	Notes
P0023216	1 l	Glass bottle	
P0023221	2.5 l	Glass bottle	

Ethyl acetate > RS - PESTIPUR - For pesticide analysis

RS

Description ..... Clear liquid
Identification ..... Positive
Colour ..... ≤ 10 hazen
Assay (GLC) ..... ≥ 99.8 %
Water ..... ≤ 0.03 %
Not volatile residue..... ≤ 2 mg/kg
Free acid (as CH3COOH)..... ≤ 30 mg/kg
GC-ECD (Lindane standard) ..... ≤ 3 ng/l
GC-NPD (Ethylparathion standard) ..... ≤ 3 ng/l

Code	Size	Packaging	Notes
448351	1 l	Glass bottle	
448352000	2.5 l	Glass bottle	

Ethyl acetate > RS - SPECTROSOL - For optical spectroscopy

RS

Description	Clear liquid	Colour	≤ 10 Hazen	Acidity	≤0.0005 meq/g	**U.V. Transmittance**	
Colour (APHA)	≤10	Density at 20° C	0.898 ÷ 0.902	Ethanol	≤ 200 mg/Kg	at 255 nm	≥15 %
Water content (K.F.)	≤ 100 mg/Kg	Refractive index at 20°C	1.3699 ÷ 1.3739	Alcalinity	≤0.0002 meq/g	at 260 nm	≥75 %
Identification	Positive	Assay (GC)	≥ 99.8 %	Methanol	≤ 100 mg/Kg	at 270 nm	≥95 %
Non volatile residue	≤ 10 mg/Kg	Boiling point	76.9 ÷ 77.4 ° C			at 280 nm	≥98 %

Code	Size	Packaging	Notes
448271	1 l	Glass bottle	
448272	2.5 l	Glass bottle	

Ethyl acetate > RS - Anhydrous - For analysis

RS

Refractive index at 20°C	1.37 - 1.374	Colour	≤ 10 Hazen	Methanol	≤ 100 mg/Kg	Methyl acetate	≤ 0.10 %
Water content (K.F.)	≤ 100 mg/Kg	Free acid (as CH3COOH)	≤ 30 mg/Kg	Ethanol	≤ 400 mg/Kg		
Non volatile residue	≤ 10 mg/Kg	Assay (GC)	≥ 99.8 %	Density d20/4	0.898 - 0.902		

Code	Size	Packaging	Notes
P0021010	200 ml	Bottle with septum	
P0021016	1 l	Glass bottle	
P0021021	2.5 l	Glass bottle	
P00210T21	2.5 l	Glass bottle	On molecular sieves 4A, Water content < 20ppm

Ethyl acetate > RS - RSE - For electronic use

RS

Description	Clear liquid	Ag	≤0.02 ppm	Cr	≤0.01 ppm	Ni	≤0.01 ppm
Colour (APHA)	≤10	Al	≤0.05 ppm	Cu	≤0.01 ppm	Pb	≤0.02 ppm
Identification	Positive	As	≤0.01 ppm	Fe	≤0.02 ppm	Pt	≤0.05 ppm
Ready carbonizable substances	Conform	Au	≤0.05 ppm	Ga	≤0.02 ppm	Sb	≤0.01 ppm
Assay (GLC)	≥99.9 %	B	≤0.01 ppm	In	≤0.02 ppm	Sn	≤0.02 ppm
Resistivity	≥20 Mohm.cm	Ba	≤0.1 ppm	K	≤0.1 ppm	Sr	≤0.02 ppm
Density at 20° C	0.898 ÷ 0.902	Be	≤0.02 ppm	Li	≤0.02 ppm	Ti	≤0.05 ppm
Boiling point	76.6 ÷ 77.6 ° C	Bi	≤0.02 ppm	Mg	≤0.1 ppm	Tl	≤0.05 ppm
Water (K.F.)	≤500 ppm	Ca	≤0.2 ppm	Mn	≤0.01 ppm	V	≤0.05 ppm
Residue on evaporation	≤10 ppm	Cd	≤0.01 ppm	Mo	≤0.05 ppm	Zn	≤0.02 ppm
Acidity (acetic acid)	≤50 ppm	Co	≤0.01 ppm	Na	≤0.2 ppm	Zr	≤0.05 ppm

Code	Size	Packaging	Notes
448307	1 l	Glass bottle	
448308	2.5 l	Glass bottle	
448306	5 l	Metal tank	

Ethyl acetate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description	Clear liquid	Refractive index at 20°C	1.3699 ÷ 1.3739	Al	≤0.5 ppm	Fe	≤0.02 ppm
Colour (APHA)	≤10	Boiling point	76.9 ÷ 77.4 ° C	B	≤0.02 ppm	Mg	≤0.1 ppm
Identification (I.R.)	Conform	Water (K.F.)	≤300 ppm	Ba	≤0.1 ppm	Mn	≤0.02 ppm
Alcohol miscibility	Complete	Residue on evaporation	≤10 ppm	Ca	≤0.5 ppm	Ni	≤0.02 ppm
Foreign esters	Conform	Acidity	≤0.0009 meq/g	Cd	≤0.05 ppm	Pb	≤0.02 ppm
Water solubility	Conform	Ethyl alcohol	≤0.05 %	Co	≤0.02 ppm	Sn	≤0.1 ppm
Substances darkened by sulphuric acid	Conform	Methyl alcohol	≤0.01 %	Cr	≤0.02 ppm	Zn	≤0.02 ppm
Density at 20° C	0.901 ÷ 0.902	Methyl acetate	≤0.1 %	Cu	≤0.02 ppm	Assay (GLC)	≥99.9 %

Code	Size	Packaging	Notes
448251	1 l	Glass bottle	
448256	2.5 l	Glass bottle	
448254	5 l	Plastic tank	
448252	10 l	Metal tank	
448258	10 l	Plastic tank	
448253	24 kg	Metal drum	
448255	180 kg	Metal drum	

Ethyl acetate > ERBApharm - According to pharmacopoeia : DAB-NF-Ph.Eur.

ERBApharm

Description ..... Clear colourless liquid
Identification ..... Positive
Colour ..... ≤ 10 APHA
Acidity ..... Conform USP-NF
Appearance ..... Conform Ph.Eur.
Ready carbonizable substances..... Conform USP-NF
Density at 20°C ..... 0.898 ÷ 0.902
Methyl compounds..... Conform USP-NF
Residue solvents ..... Conform USP-NF
Density at 25° C ..... 0.894 ÷ 0.898
Refractive index at 20°C..... 1.370 ÷ 1.373
Residue on evaporation ..... ≤0.02 %
Boiling point..... 76 ÷ 78 °C
Cromatographic purity ..... ≥99.5 %
Acidity (acetic acid)..... ≤ 0.005 %
Assay (saponification) ..... 99.0 ÷ 100.5 %
Origin (BSE/TSE)..... Synthesis
Water (K.F.) ..... ≤ 0.04 %
Residual solvents (Current ICH)..... Conform
Organic volatile impurities Conform USP-NF
Related compounds..... ≤ 0.2 %
Ethyl alcohol ..... ≤ 0.05 %
Titolo (saponificazione)..... 99.0 ÷ 100.5 %
Assay (GLC) ..... ≥ 99.8 %

Code	Size	Packaging	Notes
341506	1 l	Glass bottle	
341503	2.5 l	Glass bottle	
341502	24 kg	Metal drum	
529221	25 l	Aluminium can	
529222	200 l	Metal drum	

Ethyl acetate > RE - Pure

RE

Description ..... Clear colourless liquid
Colour ..... ≤ 10 APHA
Identity (IR)..... Positive
Density at 20°C ..... 0.898 ÷ 0.902
Boiling point..... 76.0 ÷ 77.5 °C
Refractive index at 20°C. 1.3699 ÷ 1.3739
Acidity (acetic ac) ..... ≤ 30 ppm
Residue on evaporation ..... ≤ 20 ppm
Water (K.F.) ..... ≤ 500 ppm
Assay (GLC) ..... ≥ 99.8 %
Ethyl alcohol ..... ≤ 0.04 %

Code	Size	Packaging	Notes
508221	1 l	Glass bottle	
508222	2.5 l	Glass bottle	
528295	5 l	Plastic tank	
528299	10 l	Metal tank	
528294	25 l	Metal drum	
528296	25 l	Plastic tank	
528297	200 l	Metal drum	

Ethyl acetoacetate

Etile acetoacetato • Ethyle acétoacétate • Etilo acetoacetato

Synonym:
Acetoacetic ester

$CH_3CH_2OCOCH_2COCH_3$
Molecular Weight: 130,14
CAS: 141-97-9
EEC-N: 205-516-1

Warning
H319
P264-P280i-P305+P351+P338-P337+P313

Ethyl acetoacetate > RE - Pure

RE

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 20° C ..... 1.021 ÷ 1.029
Refractive index at 20°C..... 1.415 ÷ 1.424
Boiling point..... 179 ÷ 181 ° C
Water (K.F.) ..... ≤ 0.1 %
Assay (GLC) ..... ≥ 98 %

Code	Size	Packaging	Notes
341751	1 l	Glass bottle	

Ethyl alcohol 50% ▶ Ethanol 50% v/v

Ethyl alcohol 60% ▶ Ethanol 60 % v/v

Ethyl alcohol 70% ▶ Ethanol 70 % v/v

Ethyl alcohol 96° ▶ Ethanol 96°

Ethyl alcohol absolute anhydrous ▶ Ethanol absolute anhydrous

Ethyl alcohol 70° denaturated ▶ Ethanol 70°modified

Ethyl alcohol 90° denaturated ▶ Ethanol 90° denaturated

Ethyl alcohol 94° denaturated ▶ Ethanol 94° denaturated

Ethyl alcohol 95° denaturated ▶ Ethanol 95° denaturated

Ethyl alcohol absolute denaturated ▶ Ethanol absolute denaturated

Ethyl diisopropylamine ▶ n,n-Diisopropylethylamine

Ethylene dichloride ▶ 1,2-Dichloroethane

Ethylenediamine

Etilendiammina • Ethylènediamine • Etilendiamina

Synonym:
1,2-Diaminoethane

$NH_2CH_2CH_2NH_2$
Molecular Weight: 60,1
CAS: 107-15-3
EEC-N: 203-468-6

Classification transport
ONU: 1604
Transport Hazard class: 8
Packing group II

Danger
H226-H302-H311-H332-H314-H334-H317
P210-P241-P264-P301+P330+P331-
P303+P361+P353-P304+P340-P305+P351+P338-
P342+P311a-P403+P235

Ethylenediamine > RPE - For analysis

RPE

Description ..... Clear colourless liquid
Identification ..... Positive
Alcohol miscibility..... Complete
Density at 20° C ..... 0.890 ÷ 0.906
Refractive index at 20°C. 1.4470 ÷ 1.4570
Boiling point..... 115.8 ÷ 117.3 °C
Melting point..... 10 ÷ 12 °C
Heavy metals (Pb)..... ≤ 5 ppm
Residue on ignition..... ≤ 100 ppm
Fe ..... ≤ 5 ppm
Assay (GLC) ..... ≥ 98 %

Code	Size	Packaging	Notes
449425	1 l	Glass bottle	
449426	5 l	Plastic tank	
449424	25 kg	Polythene-metal drum	

Ethylenediaminetetraacetic acid

Acido etilendiamminotetracetico • Acide éthylènediaminetétracétique (EDTA) • Acido etilendiaminotetracetico (EDTA)

Synonym:
EDTA
(Ethylenedinitrilo)tetraacetic acid

$[CH_2N(CH_2COOH)_2]_2$
Molecular Weight: 292,24
CAS: 60-00-4
EEC-N: 200-449-4

Warning
H319
P264-P280i-P305+P351+P338-P337+P313

Ethylenediaminetetraacetic acid > RPE - For analysis

RPE

Description ..... White powder
Identification ..... Positive
Chelation power ..... Conform
Loss on drying ..... ≤0.1 %
Nitrilotriacetic acid..... ≤0.15 %
Chloride..... ≤40 ppm
NH4OH-Insoluble subst..... ≤50 ppm
Heavy metals (Pb)..... ≤5 ppm
Residue on ignition..... ≤0.1 %
Cu..... ≤2 ppm
Fe ..... ≤5 ppm
Assay (complexometric)..... ≥99 %

Code	Size	Packaging	Notes
405465	250 g	Plastic bottle	
405463	1 kg	Plastic bottle	
405462	5 kg	Plastic jar	

Suitable for complexometry

Ethylenediaminetetraacetic acid > ERBApharm - According to pharmacopoeia : NF

ERBApharm

Description ..... White powder
Identification ..... Positive
Nitrilotriacetic acid..... ≤0.3 %
Residue on ignition..... ≤0.2 %
Fe ..... ≤50 ppm
Assay (complexometric)..... 98.0 ÷ 100.5 %

Code	Size	Packaging	Notes
303251	5 kg	Plastic jar	
303252	25 kg	Plastic bucket	

Suitable for complexometry

Ethylenediaminetetraacetic acid dipotassium salt dihydrate

Acido etilendiamminotetracetico sale bipotassico diidrato •
Acide éthylènediaminetétracétique sel dipotassique dihydraté •
Acido etilendiaminotetracético sal dipotasica dihidrato

Synonym:
Dipotassium ethylenediaminetetraacetate dihydrate
EDTA dipotassium salt

$[CH_2N(CH_2COOH)CH_2CO\text{-}OK]_2.2H_2O$
Molecular Weight: 404,46
CAS: 25102-12-9

Warning
H302-H312-H332
P264-P271-P261-P280h-P304+P340-P330

Ethylenediaminetetraacetic acid dipotassium salt dihydrate > RPE - For analysis — RPE

Description ..... White powder
Identification ..... Positive
pH sol. 5% at 25° C ..... 4.0 ÷ 5.0
Chloride ..... ≤50 ppm
Heavy metals (Pb) ..... ≤10 ppm
Fe ..... ≤10 ppm
Assay (complexometric) .... 99.0 ÷ 101.5 %

Code	Size	Packaging	Notes
405531	50 g	Glass bottle	

Suitable for complexometry

Ethylenediaminetetraacetic acid disodium salt

Acido etilendiamminotetracetico sale bisodico • Acide éthylènediaminetétracétique sel disodique •
Acido etilendiaminotetracético sal disódica

Synonym:
Disodium ethylenediaminetetraacetate dihydrate
EDTA disodium salt

$C_{10}H_{14}N_2Na_2O_8.2H_2O$
Molecular Weight: 372,24
CAS: 6381-92-6
EEC-N: 205-358-3

Warning
H332-H373
P271-P260-P304+P340-P312a-P314-P501a

Ethylenediaminetetraacetic acid disodium salt > RPE - For analysis - ACS — RPE

Description ..... White powder
Identification ..... Positive
pH sol. 5% at 25° C ..... 4.0 ÷ 6.0
Nitrilotriacetic acid ..... ≤0.1 %
Water-insoluble matter ..... ≤50 ppm
Heavy metals (Pb) ..... ≤50 ppm
Fe ..... ≤100 ppm
Assay (complexometric) .... 99.0 ÷ 101.0 %

Code	Size	Packaging	Notes
405494	100 g	Plastic bottle	
405491	250 g	Plastic bottle	
405497	1 kg	Plastic bottle	
405492	25 kg	Plastic bucket	

Suitable for complexometry

Ethylenediaminetetraacetic acid disodium salt > ERBApharm - According to pharmacopoeia : FU-Ph.Eur. — ERBApharm

Description ..... White powder
Identification ..... Positive
Appearance of solution ..... Conform Ph.Eur.
pH sol. 5% at 25° C ..... 4.0 ÷ 5.5
Heavy metals (Pb) ..... ≤20 ppm
Fe ..... ≤80 ppm
Assay (complexometric) .... 98.5 ÷ 101.0 %
Origin (BSE/TSE) ..... Synthesis
Residual solvents (Current ICH) ..... Conform
Impurity A ..... ≤ 0.1 %

Code	Size	Packaging	Notes
303201	1 kg	Plastic bottle	
303203	5 kg	Plastic jar	
303202	25 kg	Plastic bucket	

Ethylenediaminetetraacetic acid disodium salt > ERBApharm - According to pharmacopoeia : Ph.Eur.-USP — ERBApharm

Description ..... White powder
Identification ..... Positive
Appearance of solution ..... Conform Ph.Eur.
Ca ..... Conform USP-NF
pH sol. 5% at 25° C ..... 4.0 ÷ 5.5
Loss on drying ..... 8.7 ÷ 11.4 %
Ac. nitrilotriacetico (Impurezza A) ... ≤ 0.1 %
Heavy metals (Pb) ..... ≤ 20 ppm
Fe ..... ≤ 80 ppm
Assay (complexometric) 99.0 ÷ 101.0 % s.s.
Origin (BSE/TSE) ..... Synthesis
Residual solvents (Current ICH) ..... Conform

Code	Size	Packaging	Notes
303227	1 kg	Plastic bottle	
303226	5 kg	Plastic jar	
303225	25 kg	Plastic bucket	

Ethylenediaminetetraacetic acid disodium salt 0.1 mol/l (0.2N)

Acido etilendiamminotetracetico sale bisodico 0.1 mol/l (0.2N) •
Acide éthylènediaminetétracétique sel disodique 0.1 mol/l (0.2N) •
Acido etilendiaminotetracético sal disódica 0.1 mol/l (0.2N)

Synonym:
Disodium ethylenediaminetetraacetate dihydrate
EDTA disodium salt

$C_{10}H_{14}N_2Na_2O_8.2H_2O$ HEU210
Molecular Weight: 372,24
CAS: 6381-92-6

Ethylenediaminetetraacetic acid disodium salt 0.1 mol/l (0.2N) > RS - For analysis according to Ph. Eur. Chap. 4.2.2

RS

Code	Size	Packaging	Notes
613005901	500 ml	Plastic bottle	Ref Ph.Eur 3005900
613005900	1 l	Plastic bottle	Ref Ph.Eur 3005900

Ethylenediaminetetraacetic acid disodium salt 0.1 mol/l (0.2N) > RPE - For analysis

RPE

Description ..... Clear colourless liquid
NIST 682
Assay (colorimetry) ..... 0.1996 - 0.2004 N

Code	Size	Packaging	Notes
405511000	1 l	Plastic bottle	
405513000	5 l	Kubidos	
405514000	5 l	Plastic tank	
405512000	10 l	Kubidos	

37.22 g of EDTA disodium salt. Volumetric solution ready-to-use : 0.2N. Traceable to NIST

Ethylenediaminetetraacetic acid disodium salt 0.1 mol/l (0.2N) > RPE - NORMEX - For analysis

RPE

Description ..... Clear colourless liquid
Identification ..... Conform
Titration factor..... 1.000 ± 0.005

Code	Size	Packaging	Notes
405421		Plastic vial	Volume : 165 ml

Volumetric concentrated solution to prepare 1 L of solution 0,1 M

Ethylenediaminetetraacetic acid disodium salt 0.05 mol/l (0.1N)

Acido etilendiamminotetracetico sale bisodico 0.05 mol/l (0.1N) •
Acide éthylènediaminetétracétique sel disodique 0.05 mol/l (0.1N) •
Acido etilendiaminotetracético sal disódica 0.05 mol/l (0.1N)

Synonym:
Disodium ethylenediaminetetraacetate dihydrate
EDTA disodium salt

$C_{10}H_{14}N_2Na_2O_8.2H_2O$ HEU210
Molecular Weight: 372,24
CAS: 6381-92-6

Ethylenediaminetetraacetic acid disodium salt 0.05 mol/l (0.1N) > RPE - For analysis

RPE

Description ..... Clear colourless liquid
Assay (colorimetry) ..... 0.0998 - 0.1002 N
NIST 682

Code	Size	Packaging	Notes
405501000	1 l	Plastic bottle	
405502000	5 l	Plastic tank	

18.61 g of EDTA disodium salt. Volumetric solution ready-to-use : 0.1N. Traceable to NIST

Ethylenediaminetetraacetic acid disodium salt 0.0178 mol/l (N/28)

Acido etilendiamminotetracetico sale disodico 0.0178 mol/l (N/28) •
Acide éthylènediaminetétracétique sel disodique 0.0178 mol/l (N/28) •
Acido etilendiaminotetracético sal disódica 0.0178 mol/l (N/28)

Synonym:
Disodium ethylenediaminetetraacetate dihydrate
EDTA disodium salt

$C_{10}H_{14}N_2Na_2O_8.2H_2O$
Molecular Weight: 372,24
CAS: 6381-92-6

HEU210

Ethylenediaminetetraacetic acid disodium salt 0.0178 mol/l (N/28) > RS - For agroalimentary analysis

RS

Description ..... Clear liquid Color ..... ≤ 10 APHA Assay ..... 0.0158 ÷ 0.0198 M

Code	Size	Packaging	Notes
526011	10 l	Kubidos	

Ethylenediaminetetraacetic acid disodium salt 0.01 mol/l (0.02N)

Acido etilendiamminotetracetico sale bisodico 0.01 mol/l (0.02N) •
Acide éthylènediaminetétracétique sel disodique 0.01 mol/l (0.02N) •
Acido etilendiaminotetracético sal disódica 0.01 mol/l (0.02N)

Synonym:
Disodium ethylenediaminetetraacetate dihydrate
EDTA disodium salt

$C_{10}H_{14}N_2Na_2O_8.2H_2O$
Molecular Weight: 372,24
CAS: 6381-92-6

HEU210

Ethylenediaminetetraacetic acid disodium salt 0.01 mol/l (0.02N) > RPE - For analysis

RPE

Description ..... Clear colourless liquid **NIST 682**
Assay (colorimetry) ..... 0.01996 - 0.02004 N

Code	Size	Packaging	Notes
405442000	1 l	Glass bottle	
405443000	5 l	Kubidos	

3.722 g of EDTA disodium salt. Volumetric solution ready-to-use : 0.02N. Traceable to NIST

Ethylenediaminetetraacetic acid disodium salt 0.01 mol/l (0.02N) > RPE - NORMEX - For analysis

RPE

Description ..... Clear colourless liquid Identification ..... Positive Titration factor ..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
405431		Plastic ampoule	Volume : 55 ml

3,3621 g EDTA. Volumetric concentrated solution to prepare 1 L of solution 0,01 M

Ethylenediaminetetraacetic acid potassium and magnesium salt dihydrate

Acido etilendiamminotetracetico sale di potassio e magnesio diidrato •
Acide éthylènediaminetétracétique sel de potassium et de magnésium dihydraté •
Acido etilendiaminotetracético sal dipotasica-magnésica dihidrato

Synonym:
EDTA-K2Mg
Ethylenediaminetetraacetic acid dipotassium magnesium salt

$C_{10}H_{12}K_2MgN_2O_8 \cdot 2H_2O$
Molecular Weight: 462,8
CAS: 15708-48-2
EEC-N: 239-803-8

Warning
H302-H312-H332
P264-P271-P261-P280h-P304+P340-P330

Ethylenediaminetetraacetic acid potassium and magnesium salt dihydrate > RPE - For analysis

RPE

Description ..... White powder pH (0.1M a 20°C) ..... 8.5 ÷ 9.5 Sulphate ..... ≤ 100 ppm Fe ..... ≤ 10 ppm
Identification ..... Positive Chloride ..... ≤ 50 ppm Heavy metals (Pb) ..... ≤ 10 ppm Assay (complexometric) ..... ≥ 98 %

Code	Size	Packaging	Notes
405541	100 g	Plastic bottle	

Suitable for complexometry

Ethylenediaminetetraacetic acid tetrasodium salt tetrahydrate

Acido etilendiamminotetracetico sale tetrasodico tetraidrato •
Acide éthylènediaminetétracétique sel tétracétique tétrahydraté •
Acido etilendiaminotetracético sal tetrasódica tetrahidrato

Synonym:
EDTA tetrasodium salt
Tetrasodium ethylenediaminetetraacetate tetrahydrate

$[CH_2N(CH_2COONa)_2]_2.4H_2O$
Molecular Weight: 452,24
CAS: 13235-36-4
EEC-N: 200-573-9

Warning
H302-H312-H332
P264-P271-P280-P261-P304+P340-P330

Ethylenediaminetetraacetic acid tetrasodium salt tetrahydrate > RPE - For analysis

RPE

Description ..... White crystalline powder
Identification ..... Positive
pH sol. 1% ..... 10.0 ÷ 12.0
Water (K.F.) ..... 15.0 - 17.0 %
Assay (complexometric) ..... ≥ 98.5 % (s.s.)

Code	Size	Packaging	Notes
405482	250 g	Plastic bottle	
405486	25 kg	Fibreboard box	

Suitable for complexometry

Ethylene glycol

Glicol etilenico • Ethylène glycol • Etilenglicol

Synonym:
1,2-Ethanediol

CH_2OHCH_2OH
Molecular Weight: 62,07
CAS: 107-21-1
EEC-N: 203-473-3

Warning
H302-H373
P264-P260-P270-P314-P330-P301+P312a

Ethylene glycol > RPE - For analysis

RPE

Description ..... Clear colourless liquid
Identification ..... Positive
Water miscibility ..... Conform
Miscb. with Acetone ..... Complete
Alcohol miscibility ..... Complete
Reac.with Ammonium hydr ..... Conform
Sub reducing AgNO3 amm ..... Conform
Density at 20° C ..... 1.108 ÷ 1.118
Refractive index at 20°C. 1.4274 ÷ 1.4354
Boiling point ..... 195 ÷ 199 ° C
Water (K.F.) ..... ≤ 0.1 %
Acidity (acetic acid) ..... ≤ 3 ppm
Chloride ..... ≤ 2 ppm
Carbonyl Compounds (CO) ..... ≤ 100 ppm
Heavy metals (Pb) ..... ≤ 2 ppm
Peroxides (H2O2) ..... ≤ 5 ppm
Residue on ignition ..... ≤ 50 ppm
Sulphate ..... ≤ 20 ppm
Fe ..... ≤ 1 ppm
Assay (GLC) ..... ≥ 99.5 %

Code	Size	Packaging	Notes
453905	1 l	Glass bottle	
453904	2.5 l	Glass bottle	
453906	5 l	Plastic tank	
453902	30 kg	Plastic drum	

Ethylene glycol > RE - Pure

RE

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 20° C ..... 1.108 ÷ 1.118
Refractive index at 20°C. 1.4264 ÷ 1.4364
Boiling point ..... 195.0 ÷ 199.0 ° C
Water (K.F.) ..... ≤0.3 %
Residue on ignition ..... ≤100 ppm
Assay (GLC) ..... ≥98 %

Code	Size	Packaging	Notes
346501	1 l	Glass bottle	
346503	2.5 l	Glass bottle	
346502	5 l	Plastic tank	
346504	25 l	Plastic tank	
346509	60 kg	Plastic tank	

Ethylene glycol bis(2-aminoethyl ether)-N,N,N',N'-tetraacetic acid

Synonym: *EGTA*

Acido etilenglicole bis-(2-amminoetiletere) tetracetico • Acide éthylèneglycol bis-(2-aminoethylether) tétracétique (EGTA) • Acido etilenglicol-bis (2-aminoetil-éter) tetracético

$C_{14}H_{24}N_2O_{10}$
Molecular Weight: 380,35
CAS: 67-42-5
EEC-N: 200-651-2

Ethylene glycol bis(2-aminoethyl ether)-N,N,N',N'-tetraacetic acid > RPE - For analysis

RPE

Description	White cryst. powder	Chloride	≤500 ppm	Residue on ignition	≤0.1 %
Identification	Positive	NH4OH-Insoluble subst.	≤50 ppm	Sulphate	≤100 ppm
Loss on drying	≤1 %	Heavy metals (Pb)	≤10 ppm	Assay (complexometric)	≥97 %

Code	Size	Packaging	Notes
405521	10 g	Glass bottle	
405522	100 g	Plastic bottle	

Suitable for complexometry

Ethylene glycol butyl ether ▶ 2-Butoxy ethanol

Ethylene glycol dimethyl ether ▶ 1,2-Dimethoxyethane

Ethylene glycol monomethyl ether ▶ 2-Methoxy ethanol

Ethylene oxide solution

Soluzione ossido di etilene • Oxyde d'éthylène solution • Etileno óxido solución

Ethylene oxide solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611036408	1 ml	Glass ampoule	Ethylene oxide solution R5 Ref Ph.Eur 1036408
611036401	10 ml	Glass ampoule	Ethylene oxide stock solution Ref Ph.Eur 1036401

Ethyl ether ▶ Diethyl ether

Ethyl formate

Synonym: *Formic acid ethyl ester*

Etile formiato • Ethyle formiate • Etilo formiato

CH_3CH_2OOCH
Molecular Weight: 74,08
CAS: 109-94-4
EEC-N: 203-721-0

Classification transport
ONU: 1190
Transport Hazard class: 3
Packing group II

Danger
H225-H302-H332-H319-H335
P210-P241-P264-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

Ethyl formate > RE - Pure

RE

Description	Clear liquid	Density at 20° C	0.907 ÷ 0.927	Assay (GLC)	≥ 98.0 %	Boiling point	53.3 ÷ 55.3 °C
Identification	Positive	Refractive index at 20°C	1.3547 ÷ 1.3647	Colour (APHA)	≤ 20	Acidity	≤ 0.002 meq/g

Code	Size	Packaging	Notes
342101	1 l	Glass bottle	

Ethyl methyl ketone

Metiletilchetone • Méthyléthylcétone • Metiletilcetona

Synonym:
2-Butanone

$CH_3CH_2COCH_3$
Molecular Weight: 72,11
CAS: 78-93-3
EEC-N: 201-159-0

Classification transport
ONU: 1193
Transport Hazard class: 3
Packing group II

Danger
H225-H319-H336-HEU066
P210-P241-P264-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

Ethyl methyl ketone > RS - Anhydrous - For analysis

RS

Refractive index at 20°C ..... 1.377 - 1.381
Water content (K.F.) ..... ≤ 200 mg/Kg
Non volatile residue ..... ≤ 10 mg/Kg
Colour ..... ≤ 10 Hazen
Assay (GC) ..... ≥ 99.5 %
Free acid (as CH3COOH) ..... ≤ 30 mg/Kg

Code	Size	Packaging	Notes
P0201016	1 l	Glass bottle	

Ethyl methyl ketone > RPE - For analysis - Reag. Ph.Eur.

RPE

Description ..... Clear colourless liquid
Identification (I.R.) ..... Positive
Colour ..... ≤ 10 APHA
Alcohol miscibility ..... Complete
Diethyl ether miscib. ..... Complete
Water solubility ..... Conform
Density at 20° C ..... 0.802 ÷ 0.808
Refractive index at 20°C . 1.3784 ÷ 1.3834
Boiling point ..... 79 ÷ 80 °C
Water (K.F.) ..... ≤ 500 ppm
Residue on evaporation ..... ≤ 10 ppm
Acidity (acetic acid) ..... ≤ 30 ppm
Aldehydes(Formaldehyde) ..... ≤ 20 ppm
Heavy metals (Pb) ..... ≤ 1 ppm
Subst. reducing KMnO4 ..... ≤ 2 ppm(15m)
Al ..... ≤ 0.5 ppm
Ba ..... ≤ 0.1 ppm
Ca ..... ≤ 0.5 ppm
Cd ..... ≤ 0.05 ppm
Co ..... ≤ 0.02 ppm
Cr ..... ≤ 0.02 ppm
Cu ..... ≤ 0.02 ppm
Fe ..... ≤ 0.1 ppm
Mg ..... ≤ 0.1 ppm
Mn ..... ≤ 0.02 ppm
Ni ..... ≤ 0.02 ppm
Pb ..... ≤ 0.1 ppm
Sn ..... ≤ 0.1 ppm
Zn ..... ≤ 0.1 ppm
Assay (GLC) ..... ≥ 99.5 %

Code	Size	Packaging	Notes
462701	1 l	Glass bottle	
462703	2.5 l	Glass bottle	
462704	10 l	Plastic tank	
462702	22 kg	Metal drum	

Ethyl methyl ketone > RE - Pure

RE

Description ..... Clear colourless liquid
Identification ..... Positive
Colour ..... ≤ 10 APHA
Density at 20° C ..... 0.800 ÷ 0.810
Refractive index at 20°C . 1.3784 ÷ 1.3844
Boiling point ..... 79 ÷ 80 °C
Water (K.F.) ..... ≤ 0.1 %
Residue on evaporation ..... ≤ 20 ppm
Acidity (acetic acid) ..... ≤ 30 ppm
Total alcohol ..... ≤ 0.5 %
Assay (GLC) ..... ≥ 99.5 %

Code	Size	Packaging	Notes
354254	1 l	Glass bottle	
354253	2.5 l	Glass bottle	
528975	5 l	Plastic tank	
354251	22 kg	Metal drum	
528976	25 l	Metal drum	
354255	160 kg	Metal drum	
528977	200 l	Metal drum	

Eugenol

Eugenolo • Eugenol • Eugenol

Synonym:
2-Methoxy-4-(2-propenyl)phenol
4-Allyl-2-methoxyphenol

$C_{10}H_{12}O_2$
Molecular Weight: 164,21
CAS: 97-53-0
EEC-N: 202-589-1

Warning
H302-H317
P264-P261-P280g-P330-P301+P312a-P333+P313

Eugenol > RPE - For analysis

RPE

Description ..... Yellow clear liquid
Identification ..... Positive
Density at 20° C ..... 1.05 ÷ 1.07
Refractive index at 20°C ..... 1.53 ÷ 1.54
Assay (GLC) ..... ≥ 96 %

Code	Size	Packaging	Notes
449773	100 ml	Glass bottle	

Eukitt

Eukitt • EUKITT • Eukitt

Classification transport
ONU: 1307
Transport Hazard class: 3
Packing group III

Danger
H226-H315-H319-H335-H304
P210-P264-P280-P303+P361+P353-P304+P312a

Eukitt > RS - For microscopy

RS

Description .....Viscous liquid Identification ..... Positive

Code	Size	Packaging	Notes
554194	100 ml	Aluminium bottle	
554193	250 ml	Aluminium bottle	
554192	500 ml	Aluminium bottle	

Balm rapid inclusion

Europium standard solution

Europio standard soluzione • Europium solution standard • Europio, solución patrón

Classification transport
ONU: 3264
Transport Hazard class: 8
Packing group III

Europium standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505602	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505605	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Europium standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
503571	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503575	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
503573	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503577	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Europium standard solution > RS - Standard solution for AAS

RS

Code	Size	Packaging	Notes
507736	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
507502	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Fast green FCF
Verde solido FCF • Vert solide FCF • Verde sólido FCF

Synonym:
Food green 3

$C_{37}H_{34}N_2Na_2O_{10}S_3$
Molecular Weight: 808,86
CAS: 2353-45-9
EEC-N: 219-091-5

Warning
H302-H312-H332-H351
P264-P271-P280-P304+P340-P308+P313-P330

Fast green FCF > RS - For microscopy - C.I. 42053 — RS

Description ..... Red brown powder Identification ..... Positive

Code	Size	Packaging	Notes
491391	25 g	Glass bottle	

Dye for histology

Fehling's A reagent
Fehling reattivo soluzione A • Réactif de Fehling solution A • Fehling reactivo solución A

Classification transport
ONU: 3082
Transport Hazard class: 9
Packing group III

H411
P273-P391-P501a

Fehling's A reagent > RS - For glucose detection — RS

CuSO4.5H2O content ..... 69.16 - 69.43 g/l Description ..... Clear blue liquid Density at 20° C ..... 1.037 - 1.043 [CuSO4.5H2O] ..... 69.12 - 69.40 g/l

Code	Size	Packaging	Notes
449926	500 ml	Plastic bottle	
449927	1 l	Plastic bottle	
PS0492/41	10 l	Plastic tank	

Composition: Copper sulfate and benzoic acid

Fehling's B reagent
Fehling reattivo soluzione B • Réactif de Fehling solution B • Fehling reactivo solución B

Classification transport
ONU: 1824
Transport Hazard class: 8
Packing group II

Danger
H314-H318
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Fehling's B reagent > RS - For glucose detection — RS

Concentration ..... 345.3 - 346.7 g/l Description ..... Clear colourless liquid Density at 20° C ..... 1.259 - 1.265 Alcalinity (NaOH) ..... 119 - 121 0/00

Code	Size	Packaging	Notes
E449936	500 ml	Plastic bottle	
E449937	1 l	Plastic bottle	
PS0493/41	10 l	Plastic tank	

Composition: Potassium sodium tartrate and sodium hydroxide

Ferricyanide standard solution
Ferricianuro standard soluzione • Ferricyanures standard solution • Ferricianuro, solución patrón

Ferricyanide standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2 — RS

Code	Size	Packaging	Notes
615001300	100 ml	Plastic bottle	A 50 ppm solution : to dilute according to Ph.Eur 5001300

Ferrocyanide standard solution
Ferrocianuro standard soluzione • Ferrocyanures standard solution • Ferrocianuro, solución patrón

Ferrocyanide standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2 — RS

Code	Size	Packaging	Notes
615001209	100 ml	Plastic bottle	A 100 ppm solution : to dilute according to Ph.Eur 5001200

Ferroin 0.025 mol/l solution

Ferroina 0.025 mol/l soluzione • Indicateur Ferroïne 0.025 mol/l • Ferroína solución 0.025 mol/l

Synonym:
1,10-Phenanthroline iron(II) sulfate complex
o-Phenanthroline ferrous sulfate complex

$[Fe(C_{12}H_8N_2)_3]SO_4$
Molecular Weight: 692,52
CAS: 14634-91-4

H412
P273-P501a

Ferroin 0.025 mol/l solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611038100	100 ml	Plastic bottle	Ref Ph.Eur 1038100

Ferroin 0.025 mol/l solution > RS - For environmental analysis (COD determination)

RS

Description ..... Dark red liquid

Code	Size	Packaging	Notes
526751	100 ml	Bottle	

Fixative AFA liquid

Liquido fissatore AFA • Liquide fixateur AFA • Líquido fijador AFA

Classification transport
ONU: 1993
Transport Hazard class: 3
Packing group II

Danger
H225-H319-H317-H350-HA26
P210-P241-P264-P303+P361+P353-P305+P351+P338-P403+P235

Fixative AFA liquid > RS - For histology

RS

Description ..... Clear liquid

Code	Size	Packaging	Notes
508840	30 ml	Plastic jar	60 ml jars filled at 30 ml. Box of 500
526267	1 l	Plastic bottle	
526263001	5 l	Plastic tank	
526321	25 l	Plastic tank	

Contains Ethanol, formaldehyde and acetic acid

Fixative Bouin Duboscq Brazil liquid

Liquido fissatore di Bouin Duboscq Brazil • Liquide de Bouin Duboscq-Brazil • Líquido fijador de Bouin Duboscq-Brasil

Classification transport
ONU: 2924
Transport Hazard class: 3
Packing group III

Danger
H226-H302-H312-H332-H314-H318-H317-H341-H350-H335-HA26
P210-P241-P264-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

Fixative Bouin Duboscq Brazil liquid > RS - For histology

RS

Aspect.....Yellow liquid

Code	Size	Packaging	Notes
526271	1 l	Plastic bottle	
526262	5 l	Plastic tank	

Fixative Bouin Hollande liquid
Liquido fissatore di Bouin Hollande • Liquide de Bouin Hollande • Líquido fijador de Bouin Holland

Danger
H317-H350-HA26
P280-P261-P272-P308+P313-P333+P313-P302+P352a

Fixative Bouin Hollande liquid > RS - For histology
RS

Appearance ..... Clear liquid

Code	Size	Packaging	Notes
526268	1 l	Plastic bottle	
526269	5 l	Plastic tank	

Fixative Bouin liquid
Liquido fissatore di Bouin • Liquide de Bouin • Líquido fijador de Bouin

Danger
H302-H315-H319-H317-H341-H350-H335-HA26
P264-P271-P280-P304+P340-P305+P351+P338-P308+P313

Fixative Bouin liquid > RS - For histology
RS

Appearance ..... Yellow liquid

Code	Size	Packaging	Notes
508835	20 ml	Plastic jar	40 ml jars filled at 20 ml. Box of 500
526270	1 l	Plastic bottle	
526261	5 l	Plastic tank	

Contains formaldehyde, acetic acid and 2.4.6-trinitrophenol

Fixative Bouin liquid > RS - For hematology
RS

Description ..... Yellow clear liquid Identification ..... Positive

Code	Size	Packaging	Notes
429751	1 l	Plastic bottle	

CE IVD

Fixative Davidson liquid
Liquido fissatore di Davidson • Liquide fixateur de Davidson • Líquido fijador de Davidson

Classification transport
ONU: 1986
Transport Hazard class: 3
Packing group I

Danger
H224-H302-H315-H319-H317-H341-H350-H335-HA26
P210-P241-P264-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

Fixative Davidson liquid > RS - For histology
RS

Description ..... Clear colourless liquid

Code	Size	Packaging	Notes
508881	30 ml	Plastic jar	60 ml jars filled at 30 ml. Box of 500
508883	100 ml	Plastic jar	180 ml jars filled at 100 ml. Box of 100
526277	5 l	Plastic tank	

Fixative Davidson liquid > RS - For histology - For eyes
RS

Code	Size	Packaging	Notes
508882	300 ml	Plastic jar	500 ml jars filled at 300 ml. Box of 32

Fixative FIXALL-HIS liquid

Liquido fissatore FIXALL-HIS • Liquide fixateur FIXALL-HIS • Líquido fijador FIXALL-HIS

Classification transport
ONU: 1170
Transport Hazard class: 3
Packing group II

Danger
H225-H319
P210-P241-P264-P303+P361+P353-P305+P351+P338-P403+P235

Fixative FIXALL-HIS liquid > RS - For histology

RS

Code	Size	Packaging	Notes
526274	5 l	Plastic tank	

Formaldehyde substitute. Ready-to-use solution

Fixative liquid without acetic acid

Liquido fissatore senza acido acetico • Liquide fixateur sans acide acétique • Liquido fijador sin acido acético

Classification transport
ONU: 1993
Transport Hazard class: 3
Packing group III

Danger
H226-H302-H312-H332-H315-H319-H317-H341-H350-H335-HA26
P210-P241-P264-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

Fixative liquid without acetic acid > RS - For histology

RS

Description ..... Clear colourless liquid

Code	Size	Packaging	Notes
526264	10 l	Plastic tank	

Florisil 100-200 mesh

Florisil 100-200 mesh • Florisil 100-200 mesh • Florisil 100-200 mesh

Synonym:
Magnesium silicate

MgO_3Si
Molecular Weight: 100,39
CAS: 1343-88-0
EEC-N: 215-681-1

Florisil 100-200 mesh > RS - Adsorbent for chromatography

RS

Description ..... White powder Identification ..... Positive

Code	Size	Packaging	Notes
452351	100 g	Plastic bottle	
452353	500 g	Plastic bottle	

Florisil 60-100 mesh

Florisil 60-100 mesh • Florisil 60-100 mesh • Florisil 60-100 mesh

Synonym:
Magnesium silicate

MgO_3Si
Molecular Weight: 100,39
CAS: 1343-88-0
EEC-N: 215-681-1

Florisil 60-100 mesh > RS - Adsorbent for chromatography

RS

Description ..... White powder Identification ..... Positive

Code	Size	Packaging	Notes
452331	100 g	Plastic bottle	
452333	500 g	Plastic bottle	
452332	1 kg	Plastic bottle	

Florisil 60-100 mesh > RS - For residual pesticides analysis

RS

Description ..... White powder
Identification ..... Positive

Granulometry
60 mesh..... ca 2.0 %
70 mesh..... ca 20.0 %
80 mesh..... ca 41.0 %
100 mesh..... ca 30.0 %
140 mesh..... ca 6.9 %

Code	Size	Packaging	Notes
452271	100 g	Plastic bottle	
452273	500 g	Plastic bottle	

Fluorescein

Fluoresceina • Fluorescéine • Fluoresceína

Synonym:
Acid Yellow 73

$C_{20}H_{12}O_5$
Molecular Weight: 332,32
CAS: 2321-07-5
EEC-N: 219-031-8

Fluorescein > RPE - For analysis

RPE

Description ..... Red brown powder
Identification ..... Positive

Code	Size	Packaging	Notes
452086	25 g	Glass bottle	
452083	50 g	Glass bottle	
452087	500 g	Plastic bottle	

Fluorescein sodium salt

Fluoresceina sodica • Fluorescéine sodique • Fluoresceína sódica

Synonym:
Acid Yellow 73
Uranine

$C_{20}H_{10}Na_2O_5$
Molecular Weight: 376,28
CAS: 518-47-8
EEC-N: 208-253-0

Fluorescein sodium salt > RPE - For analysis - C.I. 45350

RPE

Description ..... Red brick powder
Identification ..... Positive
Absorbtion ind.sensit. ..... Conform
Loss on drying ..... ≤10 %

Code	Size	Packaging	Notes
452112	25 g	Glass bottle	
452113	50 g	Plastic bottle	
452117	1 kg	Plastic bottle	

Fluorescein sodium salt > RE - Pure - C.I. 45350

RE

Description ..... Red brick powder
Identification ..... Positive

Code	Size	Packaging	Notes
345356	25 g	Glass bottle	
345357	1 kg	Plastic bottle	
345355	5 kg	Plastic jar	

Fluorexon

Fluoroexone • Fluorexone • Fluorexona

Synonym:
Calcein
Bis[N,N–bis(carboxymethyl)aminomethyl] fluorescein

$C_{30}H_{24}O_{13}N_2Na_2$
Molecular Weight: 622,54
CAS: 1461-15-0
EEC-N: 215-957-1

Fluorexon > RPE - For analysis

RPE

Description ..... Orange red powder
Identification ..... Positive

Code	Size	Packaging	Notes
452141	1 g	Glass bottle	
452142	25 g	Glass bottle	

Complexometric indicator

Fluoride standard solution

Fluoruri standard soluzione • Fluorure solution standard • Fluoruro, solución patrón

Fluoride standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2

RS

Code	Size	Packaging	Notes
615001401	100 ml	Plastic bottle	A 1 ppm solution : to dilute according to Ref Ph.Eur 5001401
615001409	100 ml	Plastic bottle	A 10 ppm solution : to dilute according to Ref Ph.Eur 5001400

Fluoride standard solution > RS - Standard solution for ion chromatography

RS

Code	Size	Packaging	Notes
503251	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503253	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Fluorite ▶ Calcium fluoride

Folin-Ciocalteu's reagent

Folin-Ciocalteu reattivo • Réactif de Folin-Ciocalteu • Folin-Ciocalteu reactivo

Classification transport
ONU: 3264
Transport Hazard class: 8
Packing group II

Danger
H314-H319
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Folin-Ciocalteu's reagent > RS - For microscopy

RS

Description ..... Yellow clear liquid Identification ..... Positive Sensibilità ai fenoli (A a 650nm) ..... ≥ 0.26 Titolo (equiv. di acido) .....1.9 ÷ 2.1 N

Code	Size	Packaging	Notes
E463562	500 ml	Glass bottle	

For the determination of phenols. Store at +4 °C

Formaldehyde 37% w/v neutralized

Aldeide formica 37% p/v neutralizzata • Aldéhyde formique 37% m/v neutre • Formaldehído 37% p/v neutralizata

Synonym:
Formalin

HCHO
Molecular Weight: 30,03
CAS: 50-00-0

Classification transport
ONU: 2209
Transport Hazard class: 8
Packing group III

Danger
H302-H311-H331-H314-H317-H341-H350-H370-H335-HA26
P264-P271-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Formaldehyde 37% w/v neutralized > RS - For histology

RS

Description ..... Clear liquid Colour (APHA) ..... ≤ 10 Identification ..... Positive Assay (oxidimetric) ..... ≥ 37 % (m/v)

Code	Size	Packaging	Notes
415686	1 l	Plastic bottle	
415682	5 l	Plastic bottle	
415683	10 kg	Plastic tank	
415684	30 kg	Plastic drum	
415685	55 kg	Plastic tank	

Stabilized with ~10% of methanol. Neutralized with dolomite

Formaldehyde 37% w/v

Aldeide formica 37% m/v • Aldéhyde formique 37% m/v • Formaldehído 37% m/v

Synonym: *Formalin*

HCHO
Molecular Weight: 30,03
CAS: 50-00-0

Classification transport
ONU: 2209
Transport Hazard class: 8
Packing group III

Danger
H302-H311-H331-H314-H317-H341-H350-H370-H335-HA26
P264-P271-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Formaldehyde 37% w/v > RPE - For analysis

RPE

Description ..... Clear liquid	Density at 20°C ..... 1.085 ÷ 1.092	Heavy metals (Pb) ..... ≤2 ppm	Fe ..... ≤1 ppm
Colour (APHA) ..... ≤10	Acidity (formic acid) ..... ≤350 ppm	Residue on ignition ..... ≤500 ppm	Pb ..... ≤1 ppm
Identification ..... Positive	Chloride ..... ≤5 ppm	Sulphate ..... ≤20 ppm	Assay (oxidimetric) ..... ≥37 % (m/v)

Code	Size	Packaging	Notes
415661	1 l	Plastic bottle	
415666	2.5 l	Plastic bottle	
415667	5 l	Plastic bottle	
415669	30 kg	Plastic drum	
415662	55 kg	Plastic tank	

Stabilized with ~10% of methanol

Formaldehyde 35% w/w

Aldeide formica 35% p/p • Aldéhyde formique 35% m/m • Formaldehyde 35% w/w

Synonym: *Formalin*

HCHO
Molecular Weight: 30,03
CAS: 50-00-0

Classification transport
ONU: 1760
Transport Hazard class: 8
Packing group III

Danger
H302-H311-H331-H314-H318-H317-H341-H350-H335-HA26
P264-P271-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Formaldehyde 35% w/w > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611039101	100 ml	Plastic bottle	Ref Ph.Eur 1039101

Formaldehyde 35% w/w > ERBApharm - According to pharmacopoeia : BP-FU-Ph.Eur.

ERBApharm

Description ..... Clear colourless liquid	Appearance of solution ..... Conform Ph.Eur.	Sulphated ash ..... ≤0.1 %	Assay (iodometric) ..... 34.5 ÷ 38.0 % m/m
Identification ..... Positive	Acidity ..... Conform Ph.Eur.	Methyl alcohol ..... 9.0 ÷ 15.0 % v/v	Origin (BSE/TSE) ..... Synthesis

Code	Size	Packaging	Notes
310351	1 l	Plastic bottle	
310356	2.5 l	Plastic bottle	
310358	5 l	Plastic bottle	
310349	10 kg	Plastic tank	
310348	30 kg	Plastic drum	
310355	55 kg	Plastic tank	

Formaldehyde 30% w/v

Aldeide formica 30 % p/v • Aldéhyde formique 30% m/v • Formaldehído 30% p/v

Synonym: *Formalin*

HCHO
Molecular Weight: 30,03
CAS: 50-00-0

Classification transport
ONU: 2209
Transport Hazard class: 8
Packing group III

Danger
H302-H311-H331-H314-H317-H341-H350-H371-H335-HA26
P264-P271-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Formaldehyde 30% w/v > RE - Pure

RE

Description ..... Clear colourless liquid	Density at 20°C ..... 1.075 ÷ 1.100	Assay ..... 27.5 ÷ 32.5 % (m/v)

Code	Size	Packaging	Notes
524930	5 l	Plastic tank	

Stabilized with ~10% of methanol

Formaldehyde 30% w/w with sodium chloride

Aldeide formica 30 % p/p con sodio cloruro • Aldéhyde formique 30% m/m salé • Formaldehído 30% p/p con sodio cloruro

Synonym: *Formalin*

HCHO
Molecular Weight: 30,03
CAS: 50-00-0

Classification transport
ONU: 2209
Transport Hazard class: 8
Packing group III

Danger
H302-H311-H331-H314-H317-H341-H350-H370-H335-HA26
P264-P271-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Formaldehyde 30% w/w with sodium chloride > RE - Pure

RE

Description ..... Clear colourless liquid pH at 20°C ..... 6.9 ÷ 7.1 NaCl ..... 26 ÷ 28 g/L

Code	Size	Packaging	Notes
526935	10 l	Plastic tank	salted at pH 7

Stabilized with ~10% of methanol

Formaldehyde 10% v/v according to Lillie

Aldeide formica 10% v/v (Liquido di Lille) • Aldéhyde formique 10% v/v selon Lillie • Formaldehído 10% v/v según Lillie

Synonym: *Formalin*

HCHO
Molecular Weight: 30,03
CAS: 50-00-0

Danger
H317-H341-H350-HA26
P280-P261-P272-P308+P313-P333+P313-P302+P352a

Formaldehyde 10% v/v according to Lillie > RS - For histology

RS

Description ..... Clear colourless liquid pH at 20°C ..... 6.8 ÷ 7.0

Code	Size	Packaging	Notes
508850	30 ml	Plastic jar	60 ml jars filled at 30 ml. Box of 500 . Colored pink.
508853	80 ml	Plastic jar	140 ml jars filled at 80 ml. Box of 150. Colored pink
508851	100 ml	Plastic jar	180 ml jars filled at 100 ml. Box of 100. Colored pink
526912	5 l	Plastic tank	
526911	25 l	Plastic tank	

Stabilized with ~10% of methanol

Formaldehyde 5% w/v buffered at pH 6.9

Aldeide formica 5% p/v tamponata pH 6,9 • Aldéhyde formique 5% m/v tamponné à pH 6,9 • Formaldehído 5% p/v tamponata pH 6,9

Synonym: *Formalin*

HCHO
Molecular Weight: 30,03
CAS: 50-00-0

Danger
H317-H341-H350-HA26
P280-P261-P272-P308+P313-P333+P313-P302+P352a

Formaldehyde 5% w/v buffered at pH 6.9 > RS - For histology

RS

Description ..... Clear colourless liquid pH at 20°C ..... 6.9 - 7.1

Code	Size	Packaging	Notes
415674	5 l	Plastic tank	
415672	10 l	Plastic tank	

Formaldehyde 4% w/v with sodium chloride

Aldeide formica 4 % p/v con sodio cloruro • Aldéhyde formique 4% m/v salé • Formaldehído 4% p/v con sodio cloruro

Synonym: *Formalin*

HCHO
Molecular Weight: 30,03
CAS: 50-00-0

Danger
H317-H341-H350-HA26
P280-P261-P272-P308+P313-P333+P313-P302+P352a

Formaldehyde 4% w/v with sodium chloride > RS - For histology

RS

Description ..... Clear colourless liquid pH at 20°C ..... 7.30 ÷ 7.40 **Stabilized with 1% of methyl alcohol**

Code	Size	Packaging	Notes
526934	1 l	Plastic bottle	

Formaldehyde 4% w/v buffered at pH 6.9

Aldeide formica 4% p/v tamponata pH 6,9 • Aldéhyde formique 4% m/v tamponné à pH 6,9 • Formaldehído 4% p/v tamponata pH 6,9

Synonym: *Formalin*

HCHO
Molecular Weight: 30.03
CAS: 50-00-0

Danger
H317-H341-H350-HA26
P280-P261-P272-P308+P313-P333+P313-P302+P352a

Formaldehyde 4% w/v buffered at pH 6.9 > RS - For histology - CE - IVD

RS

Code	Size	Packaging	Notes
415634	1 l	Plastic bottle	
415631	5 l	Plastic bottle	
415633	10 l	Kubidos	
415636	20 l	Plastic tank	

CE IVD ***10% solution (v/v) buffered at pH 7 and stabilized with methanol***

Formaldehyde 4% w/v buffered at pH 6.9 > RS - For histology

RS

Description ..... Clear colourless liquid Identification ..... Positive pH at 20° C ..... 6.8 ÷ 7.0 Density at 20° C ..... ≥ 1.00
pH at 20°C ..... 6.8 ÷ 7.0 Density at 20°C ..... ≥ 1.00 Assay (oxydimetric) ..... ≥ 4.0 % Assay (oxidimetric) ..... ≥ 4.0 %

Code	Size	Packaging	Notes
508859	20 ml	Plastic jar	40 ml jars filled at 20 ml. Box of 500
508861	30 ml	Plastic jar	60 ml jars filled at 30 ml. Box of 500
508862	120 ml	Plastic jar	180 ml jars filled at 120 ml. Box of 100
508863	300 ml	Plastic jar	500 ml jars filled at 300 ml. Box of 32
524920	500 ml	Plastic jar	
526937	800 ml	Plastic jar	1 l jar filled at 800 ml
415694	1 l	Plastic bottle	
526931	2.5 l	Plastic bucket	5 l bucket filled at 2.5 l
415691	5 l	Plastic bottle	
415695	5 l	Kubidos	
526936	5 l	Plastic tank	
415693	10 l	Kubidos	
526933	10 l	Plastic tank	
415696	20 l	Plastic tank	
415692	30 kg	Plastic drum	
415697	200 l	Plastic drum	

10% solution (v/v) buffered at pH 6.9 with phosphate ions. Stabilized with methanol

Formaldehyde acetic

Aldeide formica e acido acetico • Formol acétique • Formol acético

Synonym: *Formalin*

HCHO
Molecular Weight: 30,03
CAS: 50-00-0

Danger
H302-H315-H319-H317-H341-H350-H335-HA26
P264-P271-P280-P304+P340-P305+P351+P338-P308+P313

Formaldehyde acetic > RS - For histology

RS

Description ..... Clear colourless liquid

Code	Size	Packaging	Notes
508871	30 ml	Plastic jar	60 ml jars filled at 30 ml. Box of 500
508872	40 ml	Plastic jar	60 ml jars filled at 40 ml. Box of 500
508874	65 ml	Plastic jar	180 ml jars filled at 65 ml. Box of 100
508873	120 ml	Plastic jar	180 ml jars filled at 120 ml. Box of 160
526231	1 l	Plastic bottle	
526273	5 l	Plastic tank	

Formamide

Formammide • Formamide • Formamida

Synonym: *Formic amide*

$HCONH_2$
Molecular Weight: 45,02
CAS: 75-12-7
EEC-N: 200-842-0

Danger
H351-H360D-H373-HA26
P280-P260-P201-P202-P308+P313-P314

Formamide > RS - Anhydrous - For analysis

RS

Refractive index at 20°C ..... 1.445 - 1.449
Water content (K.F.) ..... ≤ 500 mg/Kg
Colour ..... ≤ 10 Hazen
Assay (GC) ..... ≥ 99 %
Methanol ..... ≤ 0.2 %

Code	Size	Packaging	Notes
P6151010	200 ml	Bottle with septum	

Formamide > RPE - For analysis - ACS

RPE

Description ..... Clear liquid
Colour (APHA) ..... ≤ 10
Identification ..... Positive
Freezing point ..... 2.0 ÷ 3.0 °C
Assay (GLC) ..... ≥ 99.5 %

Code	Size	Packaging	Notes
452282	250 ml	Glass bottle	
452286	1 l	Glass bottle	

Formic acid 99%

Acido formico 99% • Acide formique 99% • Acido fórmico 99%

HCOOH
Molecular Weight: 46,03
CAS: 64-18-6
EEC-N: 200-579-1

Classification transport
ONU: 1779
Transport Hazard class: 8
Packing group II

Danger
H226-H314
P210-P243-P280-P303+P361+P353-P305+P351+P338-P310a

Formic acid 99% > RS - For LC/MS

RS

Description ..... Clear colourless liquid
Colour (APHA) ..... ≤10
Refractive index at 20°C . 1.3709 ÷ 1.3719
Density at 20° C ..... 1.218 ÷ 1.222
Boiling point ..... 100.2 - 101.2 °C
Residue on evaporation ..... ≤10 ppm
Assay (acidimetric) ..... ≥99.0 %
U.V. Transmittance
at 260 nm ..... ≥ 20 %
at 270 nm ..... ≥ 85 %
at 280 nm ..... ≥ 95 %
at 300 nm ..... ≥ 98 %
at 320 nm ..... ≥ 99 %
Al ..... ≤ 0.05 ppm
Fe ..... ≤ 0.2 ppm
Na ..... ≤ 0.5 ppm
Ca ..... ≤ 0.2 ppm
Mg ..... ≤ 0.1 ppm
K ..... ≤ 0.1 ppm

Code	Size	Packaging	Notes
405821	10 x 1 ml	Glass ampoule	
405822	10 x 2.5 ml	Glass ampoule	
405823	50 ml	Plastic bottle	
405824	1 l	Glass bottle	

Additive for eluent phase for LC-MS

Formic acid 99% > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description	Clear liquid	Chloride	≤5 ppm	Cd	≤0.05 ppm	Na	≤0.5 ppm
Colour (APHA)	≤10	Heavy metals (Pb)	≤2 ppm	Co	≤0.02 ppm	Ni	≤0.05 ppm
Water miscibility	Conform	Oxalate	≤50 ppm	Cr	≤0.05 ppm	Pb	≤0.02 ppm
Density at 20° C	1.218 ÷ 1.222	Sulphate	≤5 ppm	Cu	≤0.02 ppm	Sr	≤0.02 ppm
Refractive index at 20°C	1.3709 ÷ 1.3719	Sulphite	≤10 ppm	Fe	≤2 ppm	V	≤0.05 ppm
Boiling point	100.2 ÷ 101.2 °C	Ag	≤0.02 ppm	K	≤0.1 ppm	Zn	≤0.05 ppm
Residue on evaporation	≤20 ppm	Al	≤0.05 ppm	Li	≤0.02 ppm	Assay (acidimetric)	≥98 %
Acetic acid	≤500 ppm	Ba	≤0.05 ppm	Mg	≤0.5 ppm		
Ammonium	≤10 ppm	Bi	≤0.1 ppm	Mn	≤0.05 ppm		
Total nitrogen	≤20 ppm	Ca	≤0.2 ppm	Mo	≤0.02 ppm		

Code	Size	Packaging	Notes
405792	1 l	Glass bottle	
405793	5 l	Plastic tank	
405794	30 kg	Plastic drum	

Formic acid 99% > ERBApharm - According to pharmacopoeia : DAB

ERBApharm

Description	Clear colourless liquid	Density at 20° C	1.218 ÷ 1.222	Origin (BSE/TSE)	Synthesis
Identification	Positive	Assay (acidimetric)	≥ 98 % m/m		

Code	Size	Packaging	Notes
303911	1 l	Glass bottle	
303912	2.5 l	Glass bottle	
303913	30 kg	Plastic drum	

Formic acid 85%

Acido formico 85% • Acide formique 85% • Acido fórmico 85%

HCOOH
Molecular Weight: 46,03
CAS: 64-18-6

Classification transport
ONU: 1779
Transport Hazard class: 8
Packing group II

Danger
H226-H314-H318
P210-P241-P264-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

Formic acid 85% > RPE - For analysis

RPE

Description	Clear liquid	Total nitrogen	≤20 ppm	Bi	≤0.1 ppm	Mg	≤0.5 ppm
Colour (APHA)	≤10	Chloride	≤5 ppm	Cd	≤0.05 ppm	Mn	≤0.05 ppm
Identification	Positive	Heavy metals (Pb)	≤2 ppm	Co	≤0.02 ppm	Mo	≤0.02 ppm
Water miscibility	Conform	Oxalate	≤50 ppm	Cr	≤0.05 ppm	Ni	≤0.05 ppm
Density at 20° C	1.196 ÷ 1.199	Sulphate	≤5 ppm	Cu	≤0.02 ppm	Sr	≤0.02 ppm
Residue on evaporation	≤20 ppm	Sulphite	≤10 ppm	Fe	≤2 ppm	V	≤0.05 ppm
Acidity (acetic acid)	≤500 ppm	Ag	≤0.02 ppm	K	≤0.1 ppm	Zn	≤0.05 ppm
Ammonium	≤10 ppm	Ba	≤0.05 ppm	Li	≤0.02 ppm	Assay (acidimetric)	85 ÷ 87 %

Code	Size	Packaging	Notes
405832	1 l	Glass bottle	
405833	2.5 l	Glass bottle	
405835	30 kg	Plastic drum	

Formic acid 85% > RE - Pure

RE

Description	Clear liquid	Residue on evaporation	≤0.5 %	Sulphate	≤300 ppm
Identification	Positive	Chloride	≤100 ppm	Fe	≤50 ppm
Density at 20° C	1.196 ÷ 1.199	Heavy metals (Pb)	≤50 ppm	Assay (acidimetric)	85 ÷ 87 %

Code	Size	Packaging	Notes
303905	1 l	Glass bottle	
303901	30 kg	Plastic drum	

Formic acid-d
Acido formico-d • Acide formique-d • Acido fórmico-d

HCOOD
Molecular Weight: 47,03
CAS: 925-94-0

Classification transport
ONU: 1760
Transport Hazard class: 8
Packing group I

Danger
H314-H318
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Formic acid-d > RS - For NMR - min 97% — RS

Code	Size	Packaging	Notes
P5733	5 ml	Glass bottle	

Formic acid ammonium salt ▶ Ammonium formate

Formic acid calcium salt ▶ Calcium formate

Formic acid ethyl ester ▶ Ethyl formate

D(-)Fructose
D(-)Fruttosio • D(-)Fructose • D(-)Fructosa

$C_6H_{12}O_6$
Molecular Weight: 180,16
CAS: 57-48-7
EEC-N: 200-333-3

D(-)Fructose > RPE - For analysis — RPE

Description ..... White powder
Identification ..... Positive
Melting point..... 101.5 ÷ 104.5 ° C
Specific optical rotation..... -93.0 ÷ -91.0 °
Loss on drying ..... ≤0.5 %
Chloride..... ≤10 ppm
Water-insoluble matter ..... ≤100 ppm
Heavy metals (Pb)..... ≤10 ppm
Residue on ignition..... ≤300 ppm
Sulphate..... ≤50 ppm
As ..... ≤1 ppm
Fe ..... ≤10 ppm

Code	Size	Packaging	Notes
452665	100 g	Plastic bottle	
452666	500 g	Plastic bottle	

Fuchsin acid
Fucsina acida • Fuchsine acide • Fucsina ácida

Synonym:
Acid Violet 19

$C_{20}H_{17}N_3Na_2O_9S_3$
Molecular Weight: 585,6
CAS: 3244-88-0
EEC-N: 221-816-5

Fuchsin acid > RPE - For analysis - C.I. 42685 — RPE

Description ..... Dark green crystals
Identification ..... Positive
Decolorization with SO2..... Conform

Code	Size	Packaging	Notes
452812	25 g	Glass bottle	
452814	100 g	Plastic bottle	

Dye for microscopy (botanical-histology). Indicator acid - base (pH 12.0 ÷ 14.0)

Fuchsin basic

Fucsina basica • Fuchsine basique • Fucsina básica

Synonym:
Basic Violet 14

$C_{20}H_{20}ClN_3$
Molecular Weight: 337,85
CAS: 632-99-5
EEC-N: 211-189-6

Warning
H315-H319-H351-H335
P264-P271-P280-P304+P340-P305+P351+P338-P308+P313

Fuchsin basic > RPE - For analysis - C.I. 42510

RPE

Description ..... Green crystals Identification ..... Positive Decolorization with SO2 ..... Conform

Code	Size	Packaging	Notes
452842	25 g	Glass bottle	
452844	100 g	Plastic bottle	

Dye for microscopy (bacteriology-Botanical-histology). Indicator acid - base (pH 1.0 ÷ 3.1)

Fuchsin solution decolorised

Fucsina decolorata soluzione • Fuschine décolorée solution • Fucsina solución decolorizada

Synonym:
Basic Violet 14

$C_{20}H_{20}ClN_3$
Molecular Weight: 337,85
CAS: 632-99-5

HEU210

Fuchsin solution decolorised > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611039401	100 ml	Glass bottle	Ref Ph.Eur 1039401
611039402	100 ml	Glass bottle	Fuchsin solution, decolorised R1 Ref Ph.Eur 1039402

Fumaric acid

Acido fumarico • Acide fumarique • Acido fumárico

HOOCCH:CHCOOH
Molecular Weight: 116,07
CAS: 110-17-8
EEC-N: 203-743-0

Warning
H319
P264-P280i-P305+P351+P338-P337+P313

Fumaric acid > RPE - For analysis

RPE

Description ..... White crystal powder Water (K.F.) ..... ≤ 0.5 % Heavy metals (Pb) ..... ≤ 10 ppm Maleic acid ..... ≤ 0.1 %
Identification ..... Positive Assay (dried base) ..... 99.5 ÷ 100.5 % Residue on ignition ..... ≤ 100 ppm

Code	Size	Packaging	Notes
406284	100 g	Glass bottle	
406287	1 kg	Plastic bottle	

Gadolinium standard solution

Gadolinio standard soluzione • Gadolinium solution standard • Gadolinio, solución patrón

Classification transport
ONU: 3264
Transport Hazard class: 8
Packing group III

Gadolinium standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505622	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505625	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Gadolinium standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
503601	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503605	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
503603	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503607	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Gadolinium standard solution > RS - Standard solution for AAS

RS

Code	Size	Packaging	Notes
507737	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
507504	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

D(+)Galactose

D(+)Galattosio • D(+)Galactose • D(+)Galactosa

$CH_2OHCH(CHOH)_3CHOH$
Molecular Weight: 180,16
CAS: 59-23-4
EEC-N: 200-416-4

D(+)Galactose > RPE - For analysis

RPE

Description ..... White powder
Identification ..... Positive
Potere rotat. spec. a20°C (C=10;H2O;NH3) (s.s.) ..+78 ÷ +81.5 °
Water (K.F.) ..... ≤ 0.3 %
Sulphated ash ..... ≤ 0.1 %

Code	Size	Packaging	Notes
453125	250 g	Plastic bottle	
453126	1 kg	Plastic bottle	

Gallic acid monohydrate

Acido gallico monoidrato • Acide gallique monohydraté • Acido gálico monohidrato

Synonym:
3,4,5-Trihydroxybenzoic acid monohydrate

$3,4,5\text{-}(OH)_3C_6H_2COOH.H_2O$
Molecular Weight: 188,14
CAS: 5995-86-8
EEC-N: 205-749-9

Warning
H315-H319
P264-P280g-P280i-P305+P351+P338-P332+P313-P337+P313

Gallic acid monohydrate > RPE - For analysis

RPE

Description ..... White powder
Identification ..... Positive
Loss on drying ..... ≤ 10 %
Sulphate ..... ≤200 ppm
Sulphated ash ..... ≤ 0.1 %
Assay (acidimetric) ..... ≥ 99.0 % (s.s.)

Code	Size	Packaging	Notes
406335	250 g	Plastic bottle	
406336	1 kg	Plastic bottle	

Gallic acid monohydrate > RE - Pure

RE

Description ..... Yellow crystalline powder
Identification ..... Positive
Loss on drying 100° C. ..... ≤10 %
Residue on ignition ..... ≤0.1 %
Sulphate ..... ≤500 ppm

Code	Size	Packaging	Notes
304201	1 kg	Plastic bottle	
304202	5 kg	Plastic jar	

Gallium standard solution

Gallio standard soluzione • Gallium standard solution • Galio solución estándar

Classification transport
ONU: 3264
Transport Hazard class: 8
Packing group II

Gallium standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505617	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505618	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid
505619	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Gallium standard solution > RS - Standard solution for AAS

RS

Code	Size	Packaging	Notes
507739	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
507503	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Gardner Colour Standards
Standard Gardner del colore • Etalons couleurs Gardner • Patrones de color Gardner

Gardner Colour Standards > RS - For calibration
RS

Code	Size	Packaging	Notes
540701	100 ml	Glass bottle	Colour 2
540702	100 ml	Glass bottle	Colour 4
540703	100 ml	Glass bottle	Colour 6
540704	100 ml	Glass bottle	Colour 8
540705	100 ml	Glass bottle	Colour 10
540706	100 ml	Glass bottle	Colour 12
540707	100 ml	Glass bottle	Colour 14
540708	100 ml	Glass bottle	Colour 16

Gelatine
Gelatina • Gélatine • Gelatina

CAS: 9000-70-8
EEC-N: 232-554-6

Gelatine > RS - For microbiology
RS

Description ..... Yellowish crystalline powder Identification ..... Positive Loss on drying ..... ≤ 13 % Sulphated ash..... ≤ 2 %

Code	Size	Packaging	Notes
453226	500 g	Plastic bottle	

Gentian violet
Violetto genziana • Violet de gentiane • Violeta de genciana

Synonym:
Crystal violet solution
Basic violet 3

$C_{25}H_{30}ClN_3$
Molecular Weight: 407,99
CAS: 548-62-9
EEC-N: 208-953-6

Classification transport
ONU: 2811
Transport Hazard class: 6.1
Packing group III

Danger
H302-H318-H351-H410
P264-P273-P280i-P305+P351+P338-P308+P313-P330

Gentian violet > RE - Pure
RE

Description .....Dark green powder Identification ..... Positive Loss on drying 100° C.....≤10 %

Code	Size	Packaging	Notes
388703	25 g	Glass bottle	
388701	50 g	Glass bottle	

Dye for microscopy (bacteriology)

Gentian violet carbolated solution
Violetto genziana soluzione fenicata • Violet de gentiane solution phéniquée • Violeta de genciana solución fenicada

Synonym:
Crystal violet solution
Basic violet 3

$C_{25}H_{30}ClN_3$
Molecular Weight: 407,99
CAS: 548-62-9

Warning
H319-H412
P264-P273-P280-P305+P351+P338-P337+P313-P501a

Gentian violet carbolated solution > RS - For microscopy
RS

Description .....Violet clear liquid Identification ..... Positive

Code	Size	Packaging	Notes
E491651	250 ml	Glass bottle	Dye for microscopy (bacteriology) according to GRAM
E491661	250 ml	Glass bottle	Dye for microscopy (bacteriology) according to NICOLLE

Germanium standard solution

Germanio standard soluzione • Germanium solution standard • Germanio, solución patrón

Germanium standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2

RS

Code	Size	Packaging	Notes
615004400	1 l	Plastic bottle	A 100 ppm solution Ref Ph.Eur 5004400

Germanium standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505632	100 ml	Plastic bottle	conc. 10 ppm Matrix : Nitric acid and hydrofluoric acid
505635	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid and hydrofluoric acid
505633	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid and hydrofluoric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Germanium standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
504251	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid and hydrofluoric acid
504255	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrofluoric acid and nitric acid
504253	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid and hydrofluoric acid
504257	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrofluoric acid and nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Germanium standard solution > RS - Standard solution for AAS

RS

Code	Size	Packaging	Notes
507740	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
507505	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Gibb's reagent ▶ 2,6-Dichloroquinone-4-chlorimide

Giemsa's reagent

Giemsa reattivo • Réactif de Giemsa • Giemsa reactivo

Classification transport
ONU: 1230
Transport Hazard class: 3
Packing group II

Danger
H226-H301-H331-H370
P210-P241-P264-P303+P361+P353-P304+P340-P403+P235

Giemsa's reagent > RS - For hematology

RS

Description ..... Blue clear liquid Identification ..... Positive Functionality ..... Conform

Code	Size	Packaging	Notes
453614	100 ml	Glass bottle	
E453612	6 x 100 ml	Bottle	
453616	500 ml	Bottle	
E453613	6 x 500 ml	Bottle	
453611	2.5 l	Bottle	
E453615	4 x 2.5 l	Bottle	

CE IVD ***Dye according hematology Romanowski***

Glass wool

Lana di vetro • Laine de verre • Lana de vidrio

Synonym:
Silica
Silicon dioxide

CAS: 7631-86-9

Glass wool > RPE - For analysis

RPE

Description .....White fibres
Identification .....Positive
Alcalinity (NaOH)..... ≤0.1 %
Heavy metals (Pb).....≤50 ppm

Code	Size	Packaging	Notes
457521	250 g	Carton box	

D-Glucitol ▶ Sorbitol

D(+)Glucose anhydrous

D(+)Glucosio anidro • D(+)Glucose anhydre • D(+)Glucosa anhidra

Synonym:
Dextrose

$CH_2OHCH(CHOH)_3CHOH$
Molecular Weight: 180,16
CAS: 50-99-7
EEC-N: 200-075-1

D(+)Glucose anhydrous > RPE - For analysis - ACS

RPE

Description ..... White crystalline powder
Identification ..... Positive
Specific optical rotation... +52.5 ÷ +53.0 °
Loss on drying ..... ≤0.2 %
Acidity .....≤0.002 meq/g
Starch .....Conform
Chloride.....≤100 ppm
Water-insoluble matter .....≤50 ppm
Heavy metals (Pb).....≤5 ppm
Residue on ignition.....≤200 ppm
Sulphat + sulphit (SO4) .....≤50 ppm
Fe .....≤5 ppm

Code	Size	Packaging	Notes
454335	100 g	Plastic bottle	
454336	500 g	Plastic bottle	
454337	1 kg	Plastic bottle	
454338	2.5 kg	Plastic jar	
454333	25 kg	Plastic bucket	

D(+)Glucose anhydrous > ERBApharm - According to pharmacopoeia : Ph.Eur.-USP-FU-BP-DAB-JP

ERBApharm

Description ..... White crystalline powder
Appearance of solution .....Conform Ph.Eur.
Identification .....Conform
Solub. starch, sulphite ..... Conform USP-NF
Dextrine..... Conform USP-NF
Specific optical rotation at 20°C (anhyd52.5 ÷ 53.3 °
Water (K.F.) ..... ≤ 0.5 %
Heavy metals (Pb).....≤ 5 ppm
Conductivity at 20°C .....≤ 20 µS/cm
Related substances (HPLC) Conform Ph.Eur.
Assay (LC) .....97.5 ÷ 102.0 % (a.s)
Sulphate ..... ≤ 0.024 %

Code	Size	Packaging	Notes
346987	1 kg	Plastic bottle	
346989	5 kg	Plastic jar	
346983	25 kg	Plastic bucket	

D(+)Glucose monohydrate

D(+)Glucosio monoidrato • D(+)Glucose monohydraté • D(+)Glucosa monohidrato

Synonym:
Dextrose monohydrate

$CH_2OHCH(CHOH)_3CHOH.H_2O$
CAS: 5996-10-1
EEC-N: 200-075-1

D(+)Glucose monohydrate > ERBApharm - According to pharmacopoeia : Ph.Eur.-USP-BP-DAB-JP

ERBApharm

Description ..... White crystalline powder
Identification ..... Positive
Appearance of solution .....Conform Ph.Eur.
Dextrine..... Conform USP-NF
Specific optical rotation at 20°C (anhyd52.5 ÷ 53.3 °
Water (K.F.) .....7.5 ÷ 9.5 %
Heavy metals (Pb).....≤ 5 ppm
Origin (BSE/TSE).....Vegetable
Solub. Starch, sulphite .....≤ 15 ppm
Conductivity at 20°C .....≤ 20 µS/cm
Related substances (HPLC) Conform Ph.Eur.
Assay (LC) .....97.5 ÷ 102.0 % (a.s)

Code	Size	Packaging	Notes
346971	1 kg	Plastic bottle	
346972	5 kg	Plastic jar	
346973	25 kg	Plastic bucket	

L(+)Glutamic acid

Acido L(+)glutammico • Acide L(+)glutamique • Acido L(+)glutámico

Synonym: *(S)-2-Aminopentanedioic acid*

$HOOCCH(NH_2)CH_2CH_2COOH$
Molecular Weight: 147,13
CAS: 56-86-0
EEC-N: 200-293-7

L(+)Glutamic acid > RPE - For analysis

RPE

Description ..... White powder
Identification ..... Positive
Potere rotat. specif. a 20°C+30.5 ÷ 32.5 ° (s.s.)
Loss on drying ..... ≤ 0.5 %
Ammonium .....≤ 200 ppm
Chloride.....≤ 200 ppm
Sulphate .....≤ 300 ppm
Heavy metals (Pb).....≤ 10 ppm
Residue on ignition ..... ≤ 0.1 %
Trasmittance at 430nm (C=10; HCl 2N)≥ 98 %
Other amino-acids..... Not detectables
As2O3.....≤ 1 ppm
Fe .....≤ 30 ppm
Assay (non-aqueos medium) .98.5 ÷ 100.5 % (s.s.)

Code	Size	Packaging	Notes
406485	250 g	Plastic bottle	

L(+)Glutamic acid > RE - Pure

RE

Description ..... White powder
Identification ..... Positive
Loss on drying ..... ≤ 0.2 %
Other amino-acids..... Not detectables
Specific optical rotation at 20°C (C=10; .... +31.5 ÷ +32.5 °
Trasmittance at 430nm (C=10; HCl 2N)≥ 98 %
Chloride.....≤ 210 ppm
Sulphate .....≤ 280 ppm
Ammonium .....≤ 200 ppm
Heavy metals (Pb).....≤ 10 ppm
Sulphated ash..... ≤ 0.1 %
Fe .....≤ 30 ppm
Assay (acidimetric) .....98.5 ÷ 100.5 %s.s.

Code	Size	Packaging	Notes
304505	250 g	Plastic bottle	
304507	1 kg	Plastic bottle	

Glutardialdehyde solution 50%

Aldeide glutarica soluzione 50% • Aldéhyde glutarique solution 50% • Glutaraldehído solución 50%

Synonym: *Pentane-1,5-dial*

$C_5H_8O_2$
Molecular Weight: 100,12
CAS: 111-30-8

Classification transport
ONU: 1760
Transport Hazard class: 8
Packing group II

Danger
H301-H334-H314-H400-H317-H335-H336
P273-P301+P330+P331-P303+P361+P353-P304+P340

Glutardialdehyde solution 50% > RPE - For analysis

RPE

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 20° C .....1.127 ÷ 1.133
Assay .....50.0 ÷ 52.0 %

Code	Size	Packaging	Notes
415721	10 l	Kubidos	

Glycerol (30°Bé)

Glicerina (30°Bé) • Glycérine (30°Bé) • Glicerina (30°Bé)

Synonym: *1,2,3-Propanetriol*

$CH_2OHCHOHCH_2OH$
Molecular Weight: 92,09
CAS: 56-81-5
EEC-N: 200-289-5

Glycerol (30°Bé) > RS - RSE - For electronic use

RS

Description .....Clear liquid
Colour (APHA) ..... ≤ 10
Identification ..... Positive
Water miscibility..... Complete
Alcohol miscibility..... Complete
Acroleine, sugars and ammonia compounds Conform ACS
Ready carbonizable substances.....Conform ACS
Density at 25°/25° C..... ≥ 1.2570
pH 10% at 25° C .....5 ÷ 7
Organic chlorine (Cl) .....≤ 30 ppm
Chloride.....≤ 2 ppm
Fatty acid esters(glyceryl trybutyrrate)≤ 500 ppm
Heavy metals (Pb).....≤ 2 ppm
Oxalate .....≤ 8 ppm
Peroxides (H2O2) .....≤ 5 ppm
Residue on ignition .....≤ 50 ppm
Sulphate .....≤ 10 ppm
As .....≤ 0.4 ppm
Ca.....≤ 10 ppm
Cr.....≤ 0.1 ppm
Cu.....≤ 0.1 ppm
Fe .....≤ 0.5 ppm
Ni.....≤ 0.1 ppm
Assay (densimetric) ..... ≥ 99.5 %

Code	Size	Packaging	Notes
453771	1 l	Glass bottle	
453772	2.5 l	Glass bottle	

Glycerol (30°Bé) > RPE - For analysis - ACS - Reag. USP

RPE

Description ..... Clear liquid
Colour (APHA) ..... ≤ 10
Identification ..... Positive
Neutrality ..... Conform ACS
Ready carbonizable substances ..... Conform ACS
Water (K.F.) ..... ≤ 0.5 %
Organic chlorine (Cl) ..... ≤ 30 ppm
Heavy metals (Pb) ..... ≤ 2 ppm
Residue on ignition ..... ≤ 50 ppm
Sulphate ..... ≤ 10 ppm
Acrolein and glucose ..... Conform ACS
Esters of fatty acids (butyric acid) ≤ 500 ppm
Ca ..... ≤ 10 ppm
Fe ..... ≤ 0.5 ppm
Assay (GLC) ..... ≥ 99.5 %

Code	Size	Packaging	Notes
453751	500 ml	Plastic bottle	
453752	1 l	Glass bottle	
453755	2.5 l	Glass bottle	
453759	35 kg	Metal drum	
453758	260 kg	Metal drum	

Glycerol (30°Bé) > ERBApharm - Vegetal origin - According to Ph.Eur.-USP-FU-Ph.Franc.-BP-DAB

ERBApharm

Description ..... Clear colourless liquid
Identification ..... Positive
Appearance of solution ..... Conform Ph.Eur.
Acidity or alkalinity ..... Conform Ph.Eur.
Aldehydes ..... ≤ 10 ppm
Diethyl.glyc.rel.subst ..... Conform Ph.Eur.
Sugar ..... Conform Ph.Eur.
Esters ..... Conform Ph.Eur.
Fatty acids and esters ..... Conform USP-NF
Colour ..... Conform USP-NF
Organic volatile impurities Conform USP-NF
Density at 25°C ..... ≥ 1.249
Refractive index at 20°C ..... 1.470 ÷ 1.475
Water (K.F.) ..... ≤ 2.0 %
Sulphated ash ..... ≤ 100 ppm
Chloride ..... ≤ 10 ppm
Halogenated compounds ..... ≤ 35 ppm
Heavy metals (Pb) ..... ≤ 5 ppm
Sulphate ..... ≤ 20 ppm
Assay (acidimetric) ..... 99.0 ÷ 101.0 % s.s.
Limit of chlorinated compounds ... ≤ 30 ppm

Code	Size	Packaging	Notes
346161	1 l	Glass bottle	
346165	2.5 l	Glass bottle	
346162	5 l	Plastic tank	
346164	35 kg	Metal drum	
346167	250 kg	Metal drum	

30° Bé

Glycerol (30°Bé) > RE - Pure

RE

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 20° C ..... 1.258 ÷ 1.264
Refractive index at 20°C. 1.4710 ÷ 1.4740
pH 10% at 25° C ..... 5 ÷ 7
Chloride ..... ≤10 ppm
Heavy metals (Pb) ..... ≤5 ppm
Residue on ignition ..... ≤100 ppm
Sulphate ..... ≤20 ppm
As ..... ≤0.5 ppm
Fe ..... ≤1 ppm

Code	Size	Packaging	Notes
346102	1 l	Glass bottle	
346106	35 kg	Metal drum	

Glycerol 90% (28° Bé)

Glicerina 90% (28° Bé) • Glycérine 90% (28°Bé) • Glicerina 90% (28° Bé)

Synonym:
1,2,3-Propanetriol

$CH_2OHCHOHCH_2OH$
Molecular Weight: 92,09
CAS: 56-81-5
EEC-N: 200-289-5

Glycerol 90% (28° Bé) > RE - Pure

RE

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 20° C ..... 1.220 ÷ 1.233
Chlorinated compounds ..... ≤ 30 ppm
Heavy metals (Pb) ..... ≤ 5 ppm
Residue on ignition ..... ≤ 100 ppm
Appearance of solution ..... Conform
Acidity or alkalinity ..... Conform
Refractive index at 20°C. 1.4490 ÷ 1.4550
Aldehydes ..... ≤ 10 ppm
Esters ..... Conform
Sugar ..... Conform
Chloride ..... ≤ 10 ppm
Water (K.F.) ..... 11.5 ÷ 16.5 %
Assay ..... 83.5 ÷ 88.5 %

Code	Size	Packaging	Notes
346131	1 l	Glass bottle	
346132	2.5 l	Glass bottle	
346134	35 kg	Plastic drum	

Glycine
Glicocolla • Glycocolle • Glicina

Synonym:
Aminoacetic acid
Glycocoll

CH_2NH_2COOH
Molecular Weight: 75,07
CAS: 56-40-6
EEC-N: 200-272-2

Glycine > RPE - For analysis

RPE

Description ..... White crystalline powder
Identification (I.R.) ..... Positive
Hydrolyzable matter ..... Conform
Loss on drying ..... ≤ 0.2 %
Chloride ..... ≤ 70 ppm
Sulphate ..... ≤ 65 ppm
Heavy metals (Pb) ..... ≤ 20 ppm
Sulphated ash ..... ≤ 0.1 %
Assay (non-aqueos medium) ..... ≥ 98.5 % (s.s.)

Code	Size	Packaging	Notes
453804	100 g	Glass bottle	
453807	1 kg	Plastic bottle	

Glycine > ERBApharm - According to pharmacopoeia : Ph.Eur.-USP-Ph.Franc.

ERBApharm

Description ..... White crystalline powder
Identification ..... Positive
Appearance of solution ..... Conform Ph.Eur.
Hydrolyzable matter ..... Conform USP-NF
pH solution 5% ..... 5.9 ÷ 6.4
Loss on drying ..... ≤0.2 %
Sulphated ash ..... ≤0.1 %
Chloride ..... ≤70 ppm
Heavy metals (Pb) ..... ≤10 ppm
Sulphate ..... ≤65 ppm
Assay (non-aqueos medium) . 98.5 ÷ 101.0 % s.s.
Sostanze ninidrina-positive Conform Ph.Eur.
Related substances (HPLC) Conform Ph.Eur.
Ammonium (NH4) ..... ≤ 0.02 %
Ninhydrin positive substances ..... Conform Ph.Eur.

Code	Size	Packaging	Notes
346207	1 kg	Plastic bottle	
346205	5 kg	Plastic jar	
346208	25 kg	Plastic bucket	

Glycocoll ▶ Glycine

Glycolic acid
Acido glicolico • Acide glycolique • Acido glicólico

Synonym:
Hydroxyacetic acid

$CH_2OHCOOH$
Molecular Weight: 76,052
CAS: 79-14-1
EEC-N: 201-180-5

Classification transport
ONU: 3261
Transport Hazard class: 8
Packing group II

Danger
H302-H314
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Glycolic acid > RPE - For analysis

RPE

Description ..... White crystals
Identification ..... Positive
Melting point ..... 72 ÷ 80 °C
Assay (acidimetric) ..... ≥ 98.5 % s.s.
Water ..... ≤ 1 %

Code	Size	Packaging	Notes
406434	100 g	Glass bottle	

Glyoxal standard solution
Gliossale standard soluzione • Glyoxal standard solution • Glioxal, solución patrón

Glyoxal standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2

RS

Code	Size	Packaging	Notes
615003700	100 ml	Plastic bottle	A 20 ppm solution : to dilute according to Ph.Eur 5003700

Glyoxal-bis-(2-hydroxyanil)

Gliossale-bis(2-idrossianile) • Glyoxal-bis-(2-hydroxyanile) • Glioxal-bis-(2-hidroxianilo)

Synonym:
2,2'-(Ethanediylidenedinitrilo)diphenol
GBHA

$C_{14}H_{12}N_2O_2$
Molecular Weight: 240,26
CAS: 1149-16-2
EEC-N: 214-560-0

Warning
H315-H319-H335
P264-P271-P304+P340-P305+P351+P338-P312a-P332+P313

Glyoxal-bis-(2-hydroxyanil) > RPE - For analysis

RPE

Description ..... Beige powder
Identification ..... Positive
Loss on drying ..... ≤ 0.5 %
Sulphated ash ..... ≤ 0.1 %
Assay (HPLC) ..... ≥ 97 %

Code	Size	Packaging	Notes
454131	10 g	Glass bottle	
454132	25 g	Glass bottle	

Indicator for the complexometric titration of calcium

Gold standard solution

Oro standard soluzione • Or solution standard • Oro, solución patrón

Danger
H314-HEU208
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Gold standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505317	100 ml	Plastic bottle	conc. 10 ppm Matrix : Hydrochloric acid
505318	100 ml	Plastic bottle	conc. 100 ppm Matrix : Hydrochloric acid
505319	100 ml	Plastic bottle	conc. 100 ppm Matrix : Hydrochloric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Gold standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
503431	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
503435	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrochloric acid
503433	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
503437	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrochloric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Gold standard solution > RS - Standard solution for AAS

RS

Description ..... Yellow clear liquid
Identification ..... Positive
Titration factor ..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
E497585	100 ml	Glass bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
E497581	500 ml	Glass bottle	conc. 1.000 ppm Matrix : Hydrochloric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Gold standard solution > RS - NORMEX - Concentrated solution for AAS

RS

Description ..... Yellow clear liquid
Identification ..... Positive
Titration factor ..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
466961		Plastic vial	conc. 1.000 ppm Matrix : Hydrochloric acid - Volume : 50 ml

Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package

Gold(III) chloride trihydrate

Oro (III) cloruro triidrato • Or trichlorure acide • Oro tricloruro acido

Synonym:
Tetrachloroauric(III) acid
Hydrogen tetrachloroaurate(III)

$HAuCl_4.3H_2O$
Molecular Weight: 393,83
CAS: 16961-25-4
EEC-N: 240-948-4

Classification transport
ONU: 3260
Transport Hazard class: 8
Packing group II

Danger
H314-H317
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Gold(III) chloride trihydrate > RPE - For analysis - ACS

RPE

Description ..... Orange crystalline powder
Identification ..... Positive
Insol.in Diethyl ether ..... ≤ 0.1 %
Metalli (SO4) ..... ≤ 0.2 %
Titolo (Au) ..... ≥ 49.0 %

Code	Size	Packaging	Notes
467007	1 g	Glass ampoule	

Gram - Hucker Kit

Kit Gram-Hucker • Kit de Gram complet • Kit de Gram complet

Classification transport
ONU: 3316
Transport Hazard class: 9
Packing group II

P210-P241-P264-P273-P303+P361+P353-P305+P351+P338-P403+P235

Gram - Hucker Kit > RS - For bacteriology

RS

Description
Identification ..... Positive

Code	Size	Packaging	Notes
454441	4 x 250 ml	Carton box	

CE IVD ***Dye. Contains ethanol. 4 bottles of 250 ml. 1x 477241 Safranin T, 1x 458751 iodine, 1x 444131 differentiator 1x 491561 Violet oxalate crystals***

Griess' reagent

Griess reattivo soluzione in acido acetico • Réactif de Griess • Griess reactivo solución en acido acético

Classification transport
ONU: 3265
Transport Hazard class: 8
Packing group II

Danger
H314-H318-HEU208
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Griess' reagent > RS - For nitrite detection

RS

Description ..... Clear pinkish liquid
Identification ..... Positive

Code	Size	Packaging	Notes
454481	1 l	Glass bottle	

Griess' reagent A

Griess reagente A • Réactif A de Griess • Griess reactivo A

Synonym:
4-Aminobenzenesulfonic acid
Aniline-4-sulfonic acid

$C_6H_7NO_3S$
Molecular Weight: 173,19
CAS: 121-57-3

Classification transport
ONU: 3264
Transport Hazard class: 8
Packing group III

Danger
H314-HEU208
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Griess' reagent A > RS - For nitrite detection

RS

Description ..... Clear pinkish liquid
Identification ..... Positive
Nitrite sensitivity ..... ≥ 1 mcg/ml

Code	Size	Packaging	Notes
454452	500 ml	Glass bottle	

Griess' reagent B

Griess reagente B • Réactif B de Griess • Griess reactivo B

Classification transport
ONU: 3265
Transport Hazard class: 8
Packing group II

Danger
H314
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Griess' reagent B > RS - For nitrite detection

RS

Description ..... Clear pinkish liquid Identification ..... Positive Nitrite sensitivity ..... ≥ 1 mcg/ml

Code	Size	Packaging	Notes
454462	500 ml	Glass bottle	

Gum arabic

Gomma arabica • Gomme arabique • Goma arábica

Synonym:
Acacia gum

CAS: 9000-01-5
EEC-N: 232-519-5

Warning
H319
P264-P280-P305+P351+P338-P337+P313

Gum arabic > ERBApharm - According to pharmacopoeia : BP-FU-Ph.Eur.-Ph.Franc.

ERBApharm

Description ..... White-yellowish granules
Identification ..... Positive
Agar and tragacanth ..... Conform Ph.Eur.
Agar and sterculia ..... Conform Ph.Eur.
Starch and Dextrins ..... Conform Ph.Eur.
Saccarose and fructose ..... Conform Ph.Eur.
Tannin ..... Conform Ph.Eur.
Loss on drying ..... ≤ 10.0 %
Total ash ..... ≤ 4.0 %
Microbial tests
TAMC ..... ≤ 10000 CFU/g
TYMC ..... ≤ 100 CFU/g
Escherichia coli ..... Absent Ph.Eur.
Salmonella ..... Absent Ph.Eur.

Code	Size	Packaging	Notes
347107	1 kg	Plastic bottle	

Haemalum solution according to Carazzi

Emallume reattivo soluzione secondo Carazzi • Hemalun en solution selon Carazzi • Emalume reactivo solución según Carazzi

HEU210

Haemalum solution according to Carazzi > RS - For histology

RS

Description ..... Liquido rosso-bruno Identification ..... Positive Density at 20°C ..... 1.086 ÷ 1.090 pH of the substance ..... 2.1 ÷ 2.3

Code	Size	Packaging	Notes
434351	250 ml	Glass bottle	
E434352	6 x 250 ml	Glass bottle	

CE IVD ***Dye for cytology***

Haemalum solution according to Mayer

Emallume reattivo secondo Mayer • Hemalun en solution selon Mayer • Emalume reactivo solución según Mayer

Warning
H302-H371
P264-P260-P270-P330-P301+P312a-P308+P311a

Haemalum solution according to Mayer > RS - For histology

RS

Description ..... Clear purple liquid Identification ..... Positive Assorbanza a 560 nm ..... ≥ 0.80

Code	Size	Packaging	Notes
446377	1 l	Plastic bottle	
446372	6 x 1 l	Plastic bottle	

CE IVD

Hafnium standard solution

Afnio standard soluzione • Hafnium solution standard • Hafnio, solución patrón

Classification transport
ONU: 1760
Transport Hazard class: 8
Packing group III

Hafnium standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505642	100 ml	Plastic bottle	conc. 10 ppm Matrix : Nitric acid and hydrofluoric acid
505645	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid and hydrofluoric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Hafnium standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
504221	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
504225	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
504223	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
504227	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Hafnium standard solution > RS - Standard solution for AAS

RS

Code	Size	Packaging	Notes
507741	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
507506	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Hanus's reagent
Hanus reattivo • Réactif de Hanus • Hanus reactivo

Classification transport
ONU: 2920
Transport Hazard class: 8
Packing group II

Danger
H226-H314-H318-H373
P210-P241-P264-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

Hanus's reagent > RS - For detection of iodine index
RS

Description ..... Brown red liquid Identification ..... Positive Iodine value ..... ≥ 90

Code	Size	Packaging	Notes
E454872	1 l	Glass bottle	

Hartshorn salt ▶ Ammonium carbonate

Heavy water ▶ Deuterium oxide-d

Hematoxylin
Ematossilina • Hématoxyline • Hematoxilina

Synonym:
Natural Black 1

$C_{16}H_{14}O_6$
Molecular Weight: 302,29
CAS: 517-28-2
EEC-N: 208-237-3

Warning
H302-H315-H319-H335
P264-P271-P304+P340-P305+P351+P338-P330-P332+P313

Hematoxylin > RS - For microscopy - C.I. 75290
RS

Description ..... Brown powder Loss on drying ..... 4 - 8 % Alcohol solubility ..... Conform
Identification ..... Positive Assay ..... ≥ 75 % Melting point ..... ~ 140 °C

Code	Size	Packaging	Notes
446472	25 g	Glass bottle	
446473	100 g	Glass bottle	
446475	1 kg	Plastic bottle	

Dye for cytology

Hematoxyline solution according to Mayer
Ematossilina soluzione secondo Mayer • Hématoxyline en solution selon Mayer • Hematoxilina solución según Mayer

Synonym:
Natural Black 1

$C_{16}H_{14}O_6$
Molecular Weight: 302,29
CAS: 517-28-2

HEU210

Hematoxyline solution according to Mayer > RS - For histology
RS

Description ..... Red-violet liquid Identification ..... Positive

Code	Size	Packaging	Notes
460511	100 ml	Bottle	
460512	6 x 100 ml	Bottle	
460513	1 l	Bottle	
460515	6 x 1 l	Bottle	

CE IVD

Heptafluorobutyric acid

Acido eptafluorobutirrico • Acide heptafluorobutyrique • Acido heptafluorobutírico

$CF_3(CF_2)_2COOH$
Molecular Weight: 214,04
CAS: 375-22-4
EEC-N: 206-786-3

Classification transport
ONU: 3265
Transport Hazard class: 8
Packing group II

Danger
H314
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Heptafluorobutyric acid > RPE - For analysis

RPE

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 20° C ..... 1.64 ÷ 1.65
Boiling point..... 120 ÷ 121 ° C
Assay (acidimetric) .....≥98.5 %

Code	Size	Packaging	Notes
405451	10 ml	Glass bottle	

For derivatization

n-Heptane 99%

n-Eptano 99% • n-Heptane 99% • n-Heptano 99%

$CH_3(CH_2)_5CH_3$
Molecular Weight: 100,21
CAS: 142-82-5
EEC-N: 205-563-8

Classification transport
ONU: 1206
Transport Hazard class: 3
Packing group II

Danger
H225-H315-H336-H304-H410
P210-P241-P264-P273-P303+P361+P353-P304+P340-P403+P235

n-Heptane 99% > RS - For HPLC - Isocratic Grade

RS

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 20° C .....0.681 ÷ 0.687
Refractive index at 20°C.1.3836 ÷ 1.3916
Boiling point.....97.9 ÷ 98.9 ° C
Water (K.F.) .....≤100 ppm
Residue on evaporation .....≤5 ppm
Acidity or alkalinity.....≤0.00015 meq/g
Assay (GLC) ..... ≥99.2 %
U.V. Transmittance
at 200 nm ..... ≥20 %
at 210 nm ..... ≥55 %
at 220 nm ..... ≥80 %
at 230 nm ..... ≥92 %
at 240 nm ..... ≥96 %
At 250 nm ..... ≥ 98 %
at 260 nm ..... ≥99 %
Aromatic compounds.....≤ 5 ppm

Code	Size	Packaging	Notes
412591000	1 l	Glass bottle	
412592000	2.5 l	Glass bottle	

n-Heptane 99% > RS - PESTIPUR - For pesticide analysis

RS

Description .....Clear liquid
Refractive index at 20°C.....1.386 - 1.390
Identification .....Positive
Colour ..... ≤ 10 APHA
Water ..... ≤ 0.005 %
Assay (GC) ..... ≥ 99 %
Free acids (HCOOH).....≤ 10 ppm
Not volatile residue.....≤ 5 ppm
GC-ECD (Lindano) .....≤ 3 ng/l
GC-ECD.Individual peak (Lindane) ..≤ 3 ng/l
Retention time trichlorobenzene to mirex
Total sulphur (S) .....≤ 5 ppm

Code	Size	Packaging	Notes
446951	1 l	Glass bottle	
446952	2.5 l	Glass bottle	

n-Heptane 99% > RS - SPECTROSOL - For optical spectroscopy

RS

Description .....Clear liquid
Colour (APHA) ..... ≤10
Identification ..... Positive
Density at 20° C .....0.681 ÷ 0.687
Refractive index at 20°C.1.3836 ÷ 1.3916
Boiling point.....97.9 ÷ 98.9 ° C
Water (K.F.) .....≤100 ppm
Residue on evaporation .....≤5 ppm
Acidity .....≤0.0005 meq/g
Alcalinity.....≤0.0002 meq/g
Assay (GC) ..... ≥ 99 %
Aromatic compounds.....≤5 ppm
U.V. Transmittance
at 200 nm ..... ≥20 %
at 210 nm ..... ≥50 %
at 220 nm ..... ≥80 %
at 230 nm ..... ≥92 %
at 250 nm ..... ≥98 %

Code	Size	Packaging	Notes
446824	1 l	Glass bottle	

n-Heptane 99% > RS - Anhydrous - For analysis

RS

Refractive index at 20°C.....1.386 - 1.390
Water content (K.F.) .....≤ 50 mg/Kg
Non volatile residue .....≤ 10 mg/Kg
Colour ..... ≤ 10 Hazen
Assay (GC) ..... ≥ 99 %
Aromatic compounds.....≤ 50 mg/Kg
Free acid (as CH3COOH).....≤ 10 mg/Kg
Identification (IR).....Conform
Clear,colourless liq.appearance .....Conform
Density d20/4 .....0.681 - 0.687
Total sulphur (S) .....≤ 5 ppm

Code	Size	Packaging	Notes
P0501016	1 l	Glass bottle	
P0501021	2.5 l	Glass bottle	

n-Heptane 99% > RPE - For analysis

RPE

Description ..... Clear liquid
Colour (APHA) ..... ≤10
Identification ..... Conform
Chloroform miscibility ..... Complete
Diethyl ether miscib. ..... Complete
Ready carbonizable substances ..... Conform
Density at 20° C ..... 0.681 ÷ 0.687
Refractive index at 20°C. 1.3836 ÷ 1.3916
Boiling point ..... 97.4 ÷ 99.4 ° C
Water (K.F.) ..... ≤100 ppm
Residue on evaporation ..... ≤ 10 ppm
Subst. reducing KMnO4 ..... ≤20 ppm(5m)
Tiophene ..... ≤10 ppm
Total sulphur ..... ≤ 5 ppm
Assay (GLC) ..... ≥99.0 %
Aromatic compounds ..... ≤ 50 ppm
Acidity (acetic acid) ..... ≤ 10 ppm

Code	Size	Packaging	Notes
446787	1 l	Glass bottle	
446785	2.5 l	Glass bottle	
446781	5 l	Aluminium can	
446783	5 l	Plastic tank	
446782	18 kg	Metal drum	
446789	135 kg	Metal drum	
446788	200 l	Metal drum	

n-Heptane 99% > RE - Pure

RE

Description ..... Clear colourless liquid
Identification ..... Positive
Colour ..... ≤ 10 APHA
Density at 20° C ..... 0.679 ÷ 0.689
Refractive index at 20°C. 1.3826 ÷ 1.3926
Boiling point ..... 97.4 ÷ 99.4 ° C
Water (K.F.) ..... ≤ 150 ppm
Residue on evaporation ..... ≤ 20 ppm
Acidità (ac.acetico) ..... ≤ 10 ppm
Total sulphur ..... ≤ 5 ppm
Assay (GLC) ..... ≥ 99 %
Aromatic compounds ..... ≤ 50 ppm

Code	Size	Packaging	Notes
339381	1 l	Glass bottle	
339385	2.5 l	Glass bottle	
339382	5 l	Aluminium can	
528224	5 l	Plastic tank	
528228	10 l	Metal tank	
339386	18 kg	Metal drum	
528225	25 l	Metal drum	
528226	200 l	Metal drum	

n-Heptane

n-Eptano • n-Heptane • n-Heptano

$CH_3(CH_2)_5CH_3$
Molecular Weight: 100,21
CAS: 142-82-5
EEC-N: 205-563-8

Classification transport
ONU: 1206
Transport Hazard class: 3
Packing group II

Danger
H225-H315-H336-H304-H410
P210-P241-P264-P273-P303+P361+P353-P304+P340-P403+P235

n-Heptane > RS - For HPLC - Isocratic Grade

RS

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 20° C ..... 0.681 - 0.687
Refractive index at 20°C ..... 1.386 - 1.390
Water (K.F.) ..... ≤ 100 ppm
Residue on evaporation ..... ≤ 5 ppm
Acidity or alkalinity ..... ≤ 0.00015 meq/g
Assay (GLC) ..... ≥ 95 %
U.V. Transmittance
at 200 nm ..... ≥ 20 %
at 210 nm ..... ≥ 45 %
at 220 nm ..... ≥ 80 %
At 250 nm ..... ≥ 98 %
Aromatic compounds ..... ≤ 10 ppm

Code	Size	Packaging	Notes
446831	1 l	Glass bottle	
446832	2.5 l	Glass bottle	

n-Heptane > RE - Pure

RE

Description ..... Clear colourless liquid
Colour ..... ≤ 10 APHA
Identification ..... Positive
Residue on evaporation ..... ≤ 10 ppm
Water (K.F.) ..... ≤ 100 ppm
Assay (GLC) ..... ≥ 95.0 %
Benzene ..... ≤ 10 ppm
Aromatics ..... ≤ 100 ppm

Code	Size	Packaging	Notes
508212	1 l	Glass bottle	
508215	5 l	Plastic tank	
508216	25 l	Metal drum	
508217	200 l	Metal drum	

Heptane mixture of isomers

Eptano miscela di isomeri • Heptane mélange d´isomères • Heptano mezcla de isómero

$CH_3(CH_2)_5CH_3$
Molecular Weight: 100,21
CAS: 142-82-5

Classification transport
ONU: 1206
Transport Hazard class: 3
Packing group II

Danger
H225-H315-H336-H304-H411
P210-P241-P264-P273-P303+P361+P353-P304+P340-P403+P235

Heptane mixture of isomers > RS - PESTIPUR - For pesticide analysis

RS

Appearance ..... Clear colourless liquid
Refractive index at 20°C ..... 1.387 - 1.407
Water content (K.F.) ..... ≤ 50 mg/Kg
Density at 15°C ..... 690 - 725 g/l
Colour ..... ≤ 10 Hazen
Distillation range ..... 85 - 105 °C
Aromatic compounds ..... ≤ 100 mg/Kg
Non volatile residue ..... ≤ 5 mg/Kg
GC-ECD.Individual peak (Lindane) .. ≤ 3 ng/l
Retention time trichlorobenzene to mirex

Code	Size	Packaging	Notes
446841	1 l	Glass bottle	
446842	2.5 l	Glass bottle	

Heptane mixture of isomers > RPE - For analysis

RPE

Appearance ..... Clear colourless liquid
Identification ..... Conform
Colour ..... ≤ 10 Apha
Refractive index at 20°C ..... 1.387 - 1.407
Density at 15°C ..... 690 - 725 g/l
Distillation range ..... 85 - 105 °C
End/initial boiling points difference ≤ 10 °C
Water content (K.F.) ..... ≤ 100 mg/Kg
Non volatile residue ..... ≤ 10 mg/Kg
Aromatic compounds ..... ≤ 100 mg/Kg
n-hexane ..... None %
Toluene ..... None mg/Kg

Code	Size	Packaging	Notes
524381	5 l	Plastic tank	

Heptane mixture of isomers > RE - Pure

RE

Description ..... Clear liquid
Identification ..... Positive
Color ..... ≤ 10 APHA
Refractive index at 20°C ..... 1,3870 ÷ 1,4070
Density at 15°C ..... 0.690 ÷ 0.725
Boiling point ..... 85 ÷ 105 °C
Water (K.F.) ..... ≤ 150 ppm
Residue on evaporation ..... ≤ 100 ppm
Aromatics (Thiophene) ..... ≤ 200 ppm

Code	Size	Packaging	Notes
528245	5 l	Plastic tank	
528246	25 l	Metal drum	
528247	200 l	Metal drum	

1-Heptanesulphonic acid sodium salt

Acido 1-eptansolfonico sale sodico • Acide 1-heptanesulfonique sel sodique • Acido 1-heptanosulfónico sal sódica

Synonym:
Sodium 1-heptanesulfonate

$C_7H_{15}O_3SNa$
Molecular Weight: 202,25
CAS: 22767-50-6
EEC-N: 245-210-5

1-Heptanesulphonic acid sodium salt > RS - For ion pair chromatography

RS

Description ..... White crystalline powder
Identification ..... Positive
Loss on drying ..... ≤ 2 %
pH sol 10% ..... 5.5 ÷ 7.5
Assay ..... ≥ 99 %
Assorbanza (Sol. 0.25M)
at 200 nm ..... ≤ 0.1 AU
at 210 nm ..... ≤ 0.05 AU
at 220 nm ..... ≤ 0.04 AU
at 230 nm ..... ≤ 0.03 AU
at 240 nm ..... ≤ 0.01 AU
at 250 nm ..... ≤ 0.01 AU
at 260 nm ..... ≤ 0.01 AU

Code	Size	Packaging	Notes
405851	25 g	Glass bottle	
405852	100 g	Plastic bottle	

Hexachloroplatinic acid hexahydrate

Acido esacloroplatinico esaidrato • Acide hexachloroplatinique hexahydraté • Acido hexacloroplatínico hexahidrato

Synonym:
Chloroplatinic acid hexahydrate

$H_2PtCl_6.6H_2O$
Molecular Weight: 517,92
CAS: 18497-13-7
EEC-N: 241-010-7

Danger
H315-H319-H334-H317
P264-P280-P285-P305+P351+P338-P342+P311a-P337+P313

Hexachloroplatinic acid hexahydrate > RPE - For analysis

RPE

Description ..... Red-orange mass Identification ..... Positive Tracce tot. di metalli ..... ≤ 0.1 % Assay .....38 ÷ 40 % Pt

Code	Size	Packaging	Notes
470017	1 g	Glass bottle	

Hexadecane

Esadecano • Hexadécane • Hexadecano

Synonym:
Cetane

$C_{16}H_{34}$
Molecular Weight: 226,44
CAS: 544-76-3
EEC-N: 208-878-9

Danger
H304
P301+P310a-P331-P405-P501a

Hexadecane > RE - Pure

RE

Refractive index at 20°C..... 1.433 - 1.437 Assay (GC).....≥ 99 % Colour .....≤ 10 Hazen

Code	Size	Packaging	Notes
P0853016	1 l	Glass bottle	

1-Hexadecanol ▶ Cetyl alcohol

Hexadecyltrimethylammonium bromide ▶ Trimethylcetylammonium bromide

Hexadecyltrimethylammonium p-toluenesulfonate ▶ Trimethylcetylammonium p-toluenesulfonate

Hexafluoroacetylacetone ▶ 1,1,1-Trifluoroacetyltrifluoroacetone

Hexafluoro-2-propanol

Esafluoro-2-propanolo • Hexafluoro-2-Propanol • Hexafluoro-2-Propanol

Synonym:
Hexafluoroisopropanol
HFP

$C_3H_2F_6O$
Molecular Weight: 168,04
CAS: 920-66-1
EEC-N: 213-059-4

Classification transport
ONU: 3265
Transport Hazard class: 8
Packing group II

Danger
H302-H312-H332-H314
P264-P271-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Hexafluoro-2-propanol > RPE - For analysis

RPE

Identification (IR)..... Conform Colour .....≤ 10 Hazen Assay (GC).....≥ 99 %

Code	Size	Packaging	Notes
P6080503	100 ml	Glass bottle	
P6080518	500 ml	Glass bottle	

Hexahydrotoluene ▶ Methylcyclohexane

Hexamethyldisilazane

Esametildisilazano • Hexaméthyldisilazane • Hexametildisilazano

Synonym:
HMDS

$(CH_3)_3SiNHSi(CH_3)_3$
Molecular Weight: 161,4
CAS: 999-97-3
EEC-N: 213-668-5

Classification transport
ONU: 3286
Transport Hazard class: 3
Packing group II

Danger
H225-H302-H311-H315-H319-H335
P210-P241-P264-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

Hexamethyldisilazane > RPE - For analysis

RPE

Description ..... Clear liquid
Colour ..... ≤ 10 APHA
Identification ..... Positive
Refractive index at 20°C ..... 1.4060 ÷ 1.4090
Assay (GLC) ..... ≥ 97.5 %

Code	Size	Packaging	Notes
446731	25 ml	Glass bottle	

For derivatization

Hexamethylenetetramine

Esametilentetrammina • Hexaméthylènetétramine • Hexametilentetramina

Synonym:
1,3,5,7-Tetraazatricyclo[3.3.1.13,7]decane
Hexamine

$(CH_2)_6N_4$
Molecular Weight: 140,19
CAS: 100-97-0
EEC-N: 202-905-8

Classification transport
ONU: 1328
Transport Hazard class: 4.1
Packing group III

Warning
H228-H317
P210-P241-P280a-P261-P240-P333+P313

Hexamethylenetetramine > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description ..... colourless/white crystalline powder
Identification ..... Positive
pH sol. 1% ..... 7 ÷ 10
Water (K.F.) ..... ≤ 0.5 %
Ash ..... ≤ 0.05 %
Assay (alkalimetric) ..... ≥ 99.0 %
Loss on drying 130°C ..... ≤ 2 %
Heavy metals (Pb) ..... ≤ 10 ppm

Code	Size	Packaging	Notes
446875	250 g	Plastic bottle	
446876	1 kg	Plastic bottle	

n-Hexane 99%

n-Esano 99% • n-Hexane 99% • n-Hexano 99%

$CH_3(CH_2)_4CH_3$
Molecular Weight: 86,18
CAS: 110-54-3
EEC-N: 203-777-6

Classification transport
ONU: 1208
Transport Hazard class: 3
Packing group II

Danger
H225-H315-H361f-H336-H373-H304-H411
P210-P241-P264-P273-P303+P361+P353-P304+P340-P403+P235

n-Hexane 99% > RS - For HPLC - Isocratic Grade

RS

Clear,colourless liq.appearance ..... Conform
Identification ..... Conform
Colour ..... ≤ 10 Apha
Refractive index at 20°C ..... 1.373 - 1.377
Water content (K.F.) ..... ≤ 150 mg/Kg
Aromatic compounds ..... ≤ 5 mg/Kg
UV transmittance at 210 nm ..... ≥ 50 %
UV transmittance at 220 nm ..... ≥ 80 %
UV transmittance at 230 nm ..... ≥ 90 %
UV transmittance at 245 nm ..... ≥ 98 %
Non volatile residue ..... ≤ 5 mg/Kg
Assay (GC) ..... ≥ 99 %
Total sulphur (S) ..... ≤ 5 ppm

Code	Size	Packaging	Notes
412691	1 l	Glass bottle	
412692	2.5 l	Glass bottle	

n-Hexane 99% > RS - ATRASOL - For analysis of volatile traces

RS

Refractive index at 20°C ..... 1.373 - 1.377
Water content (K.F.) ..... ≤ 50 mg/Kg
Colour ..... ≤ 10 Hazen
Assay (GC) ..... ≥ 99 %
GC (FID) - NC Atrasol ..... Conform
Non volatile residue ..... ≤ 2 mg/Kg
GC-ECD.Individual peak (CCl4) ..... ≤ 1 µg/l
Ret.time dichloromethane- trichloro-benz.
GC-ECD.Individual peak (Lindane) .. ≤ 2 ng/l
Retention time trichlorobenzene to mirex
GC-FID.Individ. peak (hexadecane) .≤ 5 µg/l
Retention time range over toluène

Code	Size	Packaging	Notes
P052323016	1 l	Glass bottle	
P052323021	2.5 l	Glass bottle	

n-Hexane 99% > RS - PESTIPUR - For pesticide analysis

RS

Description ..... Clear liquid
Identification ..... Positive
Colour ..... ≤ 10 hazen
Assay (GLC) ..... ≥ 99 %
Not volatile residue ..... ≤ 2 mg/kg
Water ..... ≤ 100 mg/kg
GC-ECD (Lindane standard) ..... ≤ 3 ng/l
GC-NPD (Ethylparathion standard) .. ≤ 3 ng/l

Code	Size	Packaging	Notes
447111	1 l	Glass bottle	
447112000	2.5 l	Glass bottle	

n-Hexane 99% > RS - SPECTROSOL - For optical spectroscopy

RS

Clear,colourless liq.appearance ..... Conform
Identification ..... Conform
Colour ..... ≤ 10 Apha
Refractive index at 20°C ..... 1.373 - 1.377
Water content (K.F.) ..... ≤ 150 mg/Kg
Total sulphur (S) ..... ≤ 5 ppm
Aromatic compounds ..... ≤ 5 mg/Kg
Non volatile residue ..... ≤ 5 mg/Kg
Assay (GC) ..... ≥ 99 %
UV transmittance at 210 nm ..... ≥ 60 %
UV transmittance at 215 nm ..... ≥ 70 %
UV transmittance at 220 nm ..... ≥ 80 %
UV transmittance at 230 nm ..... ≥ 94 %
UV transmittance at 245 nm ..... ≥ 98 %

Code	Size	Packaging	Notes
447051	1 l	Glass bottle	
447052	2.5 l	Glass bottle	

n-Hexane 99% > RS - Anhydrous - For HPLC

RS

Refractive index at 20°C ..... 1.373 - 1.377
Water content (K.F.) ..... ≤ 50 mg/Kg
Colour ..... ≤ 10 Hazen
Aromatic compounds ..... ≤ 5 mg/Kg
UV transmittance at 210 nm ..... ≥ 50 %
UV transmittance at 220 nm ..... ≥ 80 %
UV transmittance at 230 nm ..... ≥ 90 %
UV transmittance at 245 nm ..... ≥ 98 %
Non volatile residue ..... ≤ 5 mg/Kg
Assay (GC) ..... ≥ 99 %
Total sulphur (S) ..... ≤ 5 ppm

Code	Size	Packaging	Notes
P05230S01/16	1 l	Glass bottle	
P05230S01/21	2.5 l	Glass bottle	

n-Hexane 99% > RS - For analysis according to Ph. Eur.Chapter 2.2.25

RS

Code	Size	Packaging	Notes
506421	100 ml	Glass bottle	Spectrophotometry Bandwidth Blank

n-Hexane 99% > RPE - For analysis

RPE

Description ..... Clear colourless liquid
Identification ..... Positive
Colour ..... ≤ 10 APHA
Refractive index at 20°C ..... 1.373 ÷ 1.377
Water (K.F.) ..... ≤ 100 ppm
Aromatic compounds ..... ≤ 10 ppm
Total sulphur (S) ..... ≤ 5 ppm
Residue on evaporation ..... ≤ 10 ppm
Assay (CPG) ..... ≥ 99 %

Code	Size	Packaging	Notes
447041	1 l	Glass bottle	
447042	2.5 l	Glass bottle	

n-Hexane 99% > RE - Pure

RE

Description ..... Clear liquid
Colour ..... ≤ 10 APHA
Identification ..... Positive
Density at 20°C ..... 0.658 ÷ 0.662
Refractive index at 20°C ..... 1.373 ÷ 1.377
Boiling point ..... 68.2 ÷ 69.2 °C
Residue on evaporation ..... ≤ 20 ppm
Water (K.F.) ..... ≤ 150 ppm
Bromine rating ..... ≤ 1
Total sulphur ..... ≤ 5 ppm
Assay (GLC) ..... ≥ 99 %
Aromatic compounds ..... ≤ 50 ppm

Code	Size	Packaging	Notes
528950	5 l	Plastic tank	
528951	25 l	Metal drum	
528952	200 l	Metal drum	

n-Hexane

n-Esano • n-Hexane • n-Hexano

$CH_3(CH_2)_4CH_3$
Molecular Weight: 86,18
CAS: 110-54-3
EEC-N: 203-777-6

Classification transport
ONU: 1208
Transport Hazard class: 3
Packing group II

Danger
H225-H315-H361f-H336-H373-H304-H411
P210-P241-P264-P273-P303+P361+P353-P304+P340-P403+P235

n-Hexane > RS - For HPLC - Isocratic grade - Reag.Ph.Eur.

RS

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 25° C ..... ≥0.662
Refractive index at 20°C. 1.3750 ÷ 1.3760
Boiling point..... 67 - 69 ° C
Water (K.F.) ..... ≤100 ppm
Residue on evaporation ..... ≤2 ppm
Acidity or alkalinity..... ≤0.00015 meq/g
Assay (GLC) ..... ≥96 %
U.V. Transmittance
at 210 nm ..... ≥50 %
at 220 nm ..... ≥82 %
at 230 nm ..... ≥92 %
at 240 nm ..... ≥95 %
At 245 nm ..... ≥ 98 %
at 250 nm ..... ≥99 %
Aromatic compounds..... ≤ 10 ppm
Total sulphur (S) ..... ≤ 5 ppm
Density at 20°C ..... 0.659 - 0.663
UV Absorbance from 260 nm to 420 nm.. ≤ 0.01 AU

Code	Size	Packaging	Notes
412601000	1 l	Glass bottle	
412602000	2.5 l	Glass bottle	

n-Hexane > RS - ATRASOL - For trace analysis, Suitable for Hydrocarbon index determination

RS

Appearance ..... Clear colourless liquid
Identification ..... Conform
Density d20/4 ..... 0.655 - 0.665
Refractive index at 20°C..... 1.373 - 1.377
Colour ..... ≤ 5 Hazen
Water content (K.F.) ..... ≤ 50 mg/Kg
Assay (GC) ..... ≥ 96.5 %
Non volatile residue ..... ≤ 2 mg/Kg
GC-ECD.Individual peak (Lindane) ..≤ 3 ng/l
Retention time trichlorobenzene to mirex
GC-FID.Hydrocarbon oil index...≤ 0.05 mg/l
Retention time n-decane - n-tetracontane
GC-FID.Individual peak (C10-C40)..≤ 5 µg/l

Code	Size	Packaging	Notes
P0523216	1 l	Glass bottle	
P0523221	2.5 l	Glass bottle	

n-Hexane > RS - PESTIPUR - For pesticide analysis

RS

Description ..... Clear liquid
Identification ..... Positive
Colour ..... ≤ 10 Hazen
Refractive index at 20° C..... 1.373 ÷ 1.377
Water (K.F.) ..... ≤ 150 ppm
Not volatile residue..... ≤ 5 ppm
GC-ECD (Lindano) ..... ≤ 3 ng/l
GC-NPD (Ethylparation)..... ≤ 3 ng/l
Assay (GLC) ..... ≥ 95 %

Code	Size	Packaging	Notes
447011	1 l	Glass bottle	
447012	2.5 l	Glass bottle	

n-Hexane > RS - SPECTROSOL - For optical spectroscopy - Reag.Ph.Eur.

RS

Description ..... Clear liquid
Colour (APHA) ..... ≤10
Density at 20°C ..... 0.659 ÷ 0.663
Refractive index at 20°C..... 1.375 ÷ 1.376
Boiling point..... 67 ÷ 69 ° C
Acidity or alkalinity..... ≤0.00015 meq/g
Water (K.F.) ..... ≤100 ppm
Residue on evaporation ..... ≤2 ppm
Aromatic compounds..... ≤5 ppm
Total sulphur ..... ≤5 ppm
Assay (GLC) ..... ≥95 %
U.V. Transmittance
at 220 nm ..... ≥82 %
at 230 nm ..... ≥92 %
at 240 nm ..... ≥95 %
at 250 nm ..... ≥99 %
UV Absorbance from 260 nm to 420 nm.. ≤ 0.01 AU

Code	Size	Packaging	Notes
446934	1 l	Glass bottle	
446932	2.5 l	Glass bottle	

n-Hexane > RS - Anhydrous - For analysis

RS

Refractive index at 20°C..... 1.373 - 1.377
Water content (K.F.) ..... ≤ 50 mg/Kg
Non volatile residue ..... ≤ 10 mg/Kg
Colour ..... ≤ 10 Hazen
Assay (GC) ..... ≥ 95 %
Aromatic compounds..... ≤ 10 mg/Kg
Clear,colourless liq.appearance ..... Conform
Identification (IR)..... Conform
Density d20/4 ..... 0.655 - 0.665
Total sulphur (S) ..... ≤ 5 ppm

Code	Size	Packaging	Notes
P0521016	1 l	Glass bottle	

n-Hexane > RPE - For analysis - ACS - Reag. Ph.Eur.

RPE

Description ..... Clear liquid
Colour (APHA) ..... ≤10
Identification ..... Positive
Alcohol miscibility..... Complete
Diethyl ether miscib..... Complete
Chloroform miscibility ..... Complete
Ready carbonizable substances..... Conform

Density at 20°C ..... 0.659 ÷ 0.663
Refractive index at 20°C..... 1.375 ÷ 1.376
Distillation range ..... 67 ÷ 69 ° C
Water (K.F.) ..... ≤100 ppm
Residue on evaporation ..... ≤10 ppm
Water-soluble titrable acid . ≤0.0003 meq/g
Subst. reducing KMnO4..... ≤20 ppm (5m)

Tiophene ..... Conform ACS
Total sulphur ..... ≤ 5 ppm
Cu..... ≤0.01 ppm
Fe ..... ≤0.1 ppm
Ni..... ≤0.01 ppm
Pb ..... ≤0.01 ppm
Zn ..... ≤0.01 ppm

Assay (GLC) ..... ≥95 %
Assay (hexan isomer+methylcyclopentane)≥ 98.5 %
Aromatic compounds..... ≤ 10 ppm
Al ..... ≤ 0.5 ppm

Code	Size	Packaging	Notes
446907	1 l	Glass bottle	
446902	2.5 l	Glass bottle PVC coated	
446903	2.5 l	Glass bottle	
446901	5 l	Aluminium can	
446991	5 l	Plastic tank	
446905	18 kg	Metal drum	
446904	130 kg	Metal drum	

n-Hexane > RE - Pure

RE

Description ..... Clear colourless liquid
Identification ..... Positive
Tiophene ..... Conform
Density at 20° C ..... 0.655 ÷ 0.665

Refractive index at 20°C. 1.3699 ÷ 1.3799
Boiling point..... 68.2 ÷ 69.2 °C
Water (K.F.) ..... ≤ 100 ppm
Residue on evaporation ..... ≤ 20 ppm

Acidity (Caproic acid) ..... ≤ 40 ppm
Assay (GLC) ..... ≥ 95 %
Colour ..... ≤ 10 APHA
Aromatic compounds..... ≤ 50 ppm

Total sulphur (S) ..... ≤ 5 ppm

Code	Size	Packaging	Notes
339751	1 l	Glass bottle	
339755	2.5 l	Glass bottle	
339752	5 l	Plastic tank	
339756	18 kg	Metal drum	
339758	25 l	Metal drum	
339757	130 kg	Metal drum	
339759	200 l	Metal drum	

Hexane mixture of isomers

Esano miscela di isomeri • Hexane mélange d'isomères • Hexano mezcla de isómeros

$CH_3(CH_2)_4CH_3$
Molecular Weight: 86,18
CAS: 110-54-3
EEC-N: 925-292-5

Classification transport
ONU: 1208
Transport Hazard class: 3
Packing group II

Danger
H225-H315-H361-H336-H373-H304-H411
P210-P241-P264-P273-P303+P361+P353-P304+P340-P403+P235

Hexane mixture of isomers > RS - For HPLC - Isocratic Grade

RS

Clear,colourless liq.appearance ..... Conform
Identification ..... Conform
Colour ..... ≤ 10 Hazen

Refractive index at 20°C..... 1.375 - 1.383
Water content (K.F.) ..... ≤ 150 mg/Kg
Aromatic compounds..... ≤ 5 mg/Kg

Total sulphur (S) ..... ≤ 5 ppm
Non volatile residue..... ≤ 5 mg/Kg
UV transmittance at 240 nm ..... ≥ 94 %

UV transmittance at 250 nm ..... ≥ 98 %
UV transmittance at 260 nm ..... ≥ 98 %

Code	Size	Packaging	Notes
412632	1 l	Glass bottle	
412631	2.5 l	Glass bottle	

Hexane mixture of isomers > RS - PESTIPUR - For pesticide analysis

RS

Description ..... Clear liquid
Identification ..... Positive
Colour ..... ≤ 10 Hazen

Refractive index at 20° C..... 1.375 ÷ 1.383
Water (K.F.) ..... ≤ 150 ppm
Not volatile residue..... ≤ 5 ppm

GC-ECD (Lindano) ..... ≤ 3 ng/l
GC-NPD (Ethylparation)..... ≤ 3 ng/l
GC-ECD (CCl4)..... ≤ 1 µg/l

Code	Size	Packaging	Notes
447181	1 l	Glass bottle	
447182	2.5 l	Glass bottle	

Hexane mixture of isomers > RPE - For analysis

RPE

Clear,colourless liq.appearance ..... Conform
Identification ..... Conform
Colour ..... ≤ 10 Apha
Refractive index at 20°C ..... 1.375 - 1.383
Water content (K.F.) ..... ≤ 100 mg/Kg
Non volatile residue ..... ≤ 10 mg/Kg
GC chromatogram ..... Conform
Aromatic compounds ..... ≤ 50 mg/Kg
Total sulphur (S) ..... ≤ 5 ppm

Code	Size	Packaging	Notes
446892	1 l	Glass bottle	
446891	2.5 l	Glass bottle	
446893	25 l	Metal drum	

Hexane mixture of isomers > RE - Pure

RE

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 20° C ..... 0.665 ÷ 0.675
Refractive index at 20°C ..... 1.3750 ÷ 1.3850
Boiling point ..... 63 ÷ 70 ° C
Water (K.F.) ..... ≤200 ppm
Aromatics ..... ≤30 ppm
Residue on evaporation ..... ≤50 ppm
Total sulphur ..... ≤5 ppm

Code	Size	Packaging	Notes
339851	1 l	Glass bottle	
339852	2.5 l	Glass bottle	
528940	5 l	Plastic tank	
339856	18 kg	Metal drum	
528941	25 l	Metal drum	
528942	200 l	Metal drum	

Hexane-d14

Esano-d14 • Hexane-d14 • Hexano-d14

Synonym:
Tetradecadeuterohexane

$CD_3(CD_2)_4CD_3$
Molecular Weight: 100,26
CAS: 21666-38-6

Classification transport
ONU: 1208
Transport Hazard class: 3
Packing group II

Hexane-d14 > RS - For NMR - min 99%

RS

Code	Size	Packaging	Notes
P5472A	1 ml	Glass ampoule	

Hexanedioic acid ▶ Adipic acid

1-Hexanesulphonic acid sodium salt

Acido 1-esansolfonico sale sodico • Acide 1-hexanesulfonique sel sodique • Acido 1-hexanosulfónico sal sódica

Synonym:
Sodium hexanesulfonate

$CH_3(CH_2)_5SO_3Na$
Molecular Weight: 188,22
CAS: 2832-45-3
EEC-N: 220-601-3

Danger
H315-H319-H334-H317
P264-P280-P284-P304+P340-P305+P351+P338-P342+P311a

1-Hexanesulphonic acid sodium salt > RS - For ion pair chromatography

RS

Description ..... White crystalline powder
Water (K.F.) ..... ≤ 2.0 %
Assay ..... ≥ 99.0 %

Absorbance (0,25M)
At 200 nm ..... ≤ 0.1 AU
At 210 nm ..... ≤ 0.05 AU
At 220 nm ..... ≤ 0.04 AU
At 230 nm ..... ≤ 0.03 AU
At 240 nm ..... ≤ 0.01 AU
At 250 nm ..... ≤ 0.01 AU
At 260 nm ..... ≤ 0.01 AU

Code	Size	Packaging	Notes
405621	25 g	Glass bottle	
405622	100 g	Plastic bottle	

1-Hexanesulphonic acid sodium salt monohydrate

Acido 1-esansolfonico sale sodico monoidrato • Acide 1-hexanesulfonique sel sodique monohydrate • Acido 1-hexanosulfónico sal sódica monohidrato

Synonym:
Sodium 1-hexanesulfonate monohydrate
1-Hexanesulfonic acid sodium salt monohydrate

$C_6H_{13}NaO_3S.H_2O$
Molecular Weight: 206,24
CAS: 207300-91-2

1-Hexanesulphonic acid sodium salt monohydrate > RS - For ion pair chromatography

RS

Description ..... White crystalline powder
Loss on drying ..... 7.0 - 9.0 %
Assay ..... ≥ 99.0 %

Absorbance (0,25M)
At 200 nm ..... ≤ 0.1 AU
At 210 nm ..... ≤ 0.05 AU
At 220 nm ..... ≤ 0.03 AU
At 230 nm ..... ≤ 0.02 AU
At 240 nm ..... ≤ 0.01 AU
At 250 nm ..... ≤ 0.01 AU

Code	Size	Packaging	Notes
405921	25 g	Glass bottle	
405922	100 g	Plastic bottle	

Hexanoic acid ▶ n-Caproic acid

Hippuric acid

Acido ippurico • Acide hippurique • Acido hipúrico

Synonym:
Benzoylaminoacetic acid

$C_6H_5CONHCH_2COOH$
Molecular Weight: 179,18
CAS: 495-69-2
EEC-N: 207-806-3

Hippuric acid > RPE - For analysis

RPE

Description ..... White crystals
Identification ..... Positive
Melting point ..... 189.0 ÷ 191.0 °C
Chloride ..... ≤10 ppm
Heavy metals (Pb) ..... ≤20 ppm
Loss on drying ..... ≤0.5 %
Residue on ignition ..... ≤100 ppm
Sulphate ..... ≤50 ppm
Fe ..... ≤10 ppm
Assay (acidimetric) ..... ≥99 %

Code	Size	Packaging	Notes
407012	25 g	Glass bottle	

Histamine dihydrochloride

Istamina bicloridrato • Histamine dichlorhydratée • Histamina diclorhidrato

Synonym:
2-(4-Imidazolyl)ethylamine dihydrochloride

$C_5H_9N_3 \cdot 2HCl$
Molecular Weight: 184,07
CAS: 56-92-8
EEC-N: 200-298-4

Danger
H315-H319-H334-H317-H335
P264-P271-P280-P304+P340-P305+P351+P338-P342+P311a

Histamine dihydrochloride > RPE - For analysis

RPE

Description ..... Yellowish crystalline powder
Identification ..... Positive
Loss on drying ..... ≤ 0.5 %
Residue on ignition ..... ≤ 0.1 %
Assay (non-aqueos medium) ..... ≥ 98.5 %

Code	Size	Packaging	Notes
456851	10 g	Glass bottle	
456852	100 g	Glass bottle	

L-Histidine hydrochloride monohydrate

L-Istidina monocloridrato monoidrato • L-Histidine monochlorhydratée monohydraté • L-Histidina monoclorhidrato monohidrato

Synonym:
L-Histidine monohydrochloride monohydrate
L-alpha-Amino-beta-(4-imidazolyl)propanoic acid monohydrochloride

$C_6H_9N_3O_2.HCl.H_2O$
Molecular Weight: 191,66
CAS: 645-35-2
EEC-N: 211-438-9

L-Histidine hydrochloride monohydrate > RPE - For analysis

RPE

Description White or almost white crystalline powder
Identification ..... Positive
Sulfate ..... ≤ 300 ppm ppm
Ammonium ..... ≤ 200 ppm
Fe ..... ≤ 10 ppm
Heavy metals (Pb) ..... ≤ 10 ppm
Loss on drying ..... 7.0 ÷ 10.0 %
Sulphated ash ..... ≤ 0.1 %
pH sol. 5% ..... 3.0 ÷ 5.0
Assay (dried base) ..... 98.5 ÷ 101.0 %

Code	Size	Packaging	Notes
456952	25 g	Glass bottle	
456951	500 g	Plastic bottle	

Histolemon

Histolemon • Histolemon • Histolemon

Synonym:
Orange oil
Citrus sinensis

CAS: 8028-48-6

Classification transport
ONU: 2052
Transport Hazard class: 3
Packing group III

Danger
H226-H304-H400-H410-H315-H317
P210-P280-P331-P403+P235-P405-P501a

Histolemon > RS - For histology

RS

Description ..... Clear liquid
Colour (APHA) ..... ≤ 25
Identification ..... Positive
Density at 20° C ..... 0.835 ÷ 0.845
Assay (GLC) ..... ≥ 95 %

Code	Size	Packaging	Notes
454911	1 l	Glass bottle	
454912	2.5 l	Glass bottle	
454915	5 l	Plastic tank	

Holmium standard solution

Olmio standard soluzione • Holmium solution standard • Holmio, solución patrón

Classification transport
ONU: 3264
Transport Hazard class: 8
Packing group II

Holmium standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505657	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505658	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Holmium standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
504261	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
504265	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
504263	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
504267	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Holmium standard solution > RS - Standard solution for AAS

RS

Code	Size	Packaging	Notes
507742	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
507507	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Holmium oxide

Olmio ossido • Holmium oxyde • Holmio oxido

Synonym:
Holmium(III) oxide

Ho_2O_3
Molecular Weight: 377,88
CAS: 12055-62-8
EEC-N: 235-015-3

Holmium oxide > RPE - For analysis

RPE

Description ..... Yellowish powder Identification ..... Positive Assay .....≥ 99.85 %

Code	Size	Packaging	Notes
466831	1 g	Glass bottle	

Holmium perchlorate in solution

Olmio perclorato soluzione • Holmium perchlorate solution • Holmio perclorato solución

$Ho(ClO_4)_3$
Molecular Weight: 481.30
CAS: 14017-54-0

Holmium perchlorate in solution > RS - For analysis according to Ph. Eur.Chapter 2.2.25

RS

Code	Size	Packaging	Notes
506472	10 ml	Sealed cuvette	
506473	100 ml	Glass bottle	

Holmium perchlorate in solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611043101	1 l	Glass bottle	Ref Ph.Eur 1043101

Hyamine 1622

Hyamine 1622 • Hyamine 1622 • Hyamina 1622

Synonym:
Benzethonium chloride
(Diisobutylphenoxyethoxyethyl)dimethyl-benzylammonium chloride

$C_{27}H_{42}ClNO_2$
Molecular Weight: 448,18
CAS: 121-54-0
EEC-N: 204-479-9

Classification transport
ONU: 3077
Transport Hazard class: 9
Packing group III

Warning
H302
P264-P270-P330-P301+P312a-P501a

Hyamine 1622 > RPE - For analysis - Reag. Ph.Eur.

RPE

Description ..... White powder Loss on drying .....≤ 5 % Assay (argentimetric).....≥ 96.0 %
Identification ..... Positive Melting point..... 158 ÷ 163 °C

Code	Size	Packaging	Notes
454921	100 g	Plastic bottle	

Hyamine 1622 solution 0.004M

Hyamine 1622 soluzione 0.004M • Hyamine 1622 solution 0.004M • Hyamina 1622 solución 0.004M

Synonym:
Benzethonium chloride
(Diisobutylphenoxyethoxyethyl)dimethyl-benzylammonium chloride

$C_{27}H_{42}ClNO_2$
Molecular Weight: 448,18
CAS: 121-54-0

Hyamine 1622 solution 0.004M > RS - For analysis according to Ph. Eur. Chap. 4.2.2

RS

Code	Size	Packaging	Notes
613000901	100 ml	Plastic bottle	Ref Ph.Eur 3000900
613000900	1 l	Plastic bottle	Ref Ph.Eur 3000900

Hyamine 1622 solution 0.004M > RS - For anionic surfactants detection

RS

Description ..... Clear colourless liquid
Identification ..... Positive
Assay (at production) ..... 0.0035 ÷ 0.0045 Mol/l

Code	Size	Packaging	Notes
E454972	1 l	Glass bottle	

Hydrazine dihydrochloride

Idrazina dicloridrato • Hydrazine dichlorhydratée • Hidrazina diclorhidrato

Synonym:
Hydrazine dihydrochloride

$NH_2NH_2.2HCl$
Molecular Weight: 104,97
CAS: 5341-61-7
EEC-N: 226-283-2

Classification transport
ONU: 3288
Transport Hazard class: 6.1
Packing group III

Danger
H301-H311-H331-H317-H350-H410-HA26
P264-P273-P271-P304+P340-P301+P310a-P308+P313

Hydrazine dihydrochloride > RPE - For analysis

RPE

Description ..... White crystalline powder
Identification ..... Positive
Melting point ..... 193.5 ÷ 202.5 ° C
Water-insoluble matter ..... ≤50 ppm
Heavy metals (Pb) ..... ≤5 ppm
Residue on ignition ..... ≤100 ppm
Sulphate ..... ≤10 ppm
Fe ..... ≤5 ppm
Assay (oxidimetric) ..... ≥99 %

Code	Size	Packaging	Notes
455054	100 g	Glass bottle	
455056	500 g	Plastic bottle	
455057	1 kg	Plastic bottle	

Hydriodic acid 57%

Acido iodidrico 57% • Acide iodhydrique 57% • Acido idríodico 57%

HI
Molecular Weight: 127,92
CAS: 10034-85-2

Classification transport
ONU: 1787
Transport Hazard class: 8
Packing group II

Danger
H314
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Hydriodic acid 57% > RPE - For analysis - ACS

RPE

Description ..... Dark red-brown solution
Identification ..... Positive
Chloride + bromide (Cl) ..... ≤ 500 ppm
Free iodine (I) ..... ≤ 7500 ppm
Heavy metals (Pb) ..... ≤ 10 ppm
Residue on ignition ..... ≤ 100 ppm
Sulfates ..... ≤ 50 ppm
Fe ..... ≤ 10 ppm
Phosphates ..... ≤ 10 ppm

Code	Size	Packaging	Notes
406831	100 ml	Glass bottle	
406833	1 l	Glass bottle PVC coated	

Stabilized with ~1,5% of hypophosphorous acid

Hydrobromic acid 48%

Acido bromidrico 48% • Acide bromhydrique 48% • Acido bromhídrico 48%

HBr
Molecular Weight: 80,92
CAS: 10035-10-6

Classification transport
ONU: 1788
Transport Hazard class: 8
Packing group III

Danger
H314-H335+H336
P260-P303+P361+P353-P305+P351+P338-P310-P405-P501a

Hydrobromic acid 48% > RPE - For analysis - ACS - ISO

RPE

Description	Yellow clear liquid	Total phosphorus	≤ 2 ppm	Sulphite	≤ 25 ppm	Se	≤ 0.01 ppm
Identification	Positive	Iodide	≤ 2 ppm	As	≤ 0.5 ppm	Assay (acidimetric)	47.0 ÷ 49.0 %
Organic substances	Conform	Heavy metals (Pb)	≤ 2 ppm	Ca	≤ 10 ppm		
Density at 20° C	1.473 ÷ 1.503	Residue on ignition	≤ 20 ppm	Fe	≤ 1 ppm		
Chloride	≤ 200 ppm	Sulphate	≤ 5 ppm	Mg	≤ 5 ppm		

Code	Size	Packaging	Notes
402925	250 ml	Bottle	
402922	1 l	Bottle	

Hydrochloric acid 37%

Acido cloridrico 37% • Acide chlorhydrique 37% • Acido clorhídrico 37%

HCl
Molecular Weight: 36,46
CAS: 7647-01-0

Classification transport
ONU: 1789
Transport Hazard class: 8
Packing group II

Danger
H290-H314-H335
P264-P271-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Hydrochloric acid 37% > RS - VLSI For electronic use

RS

Code	Size	Packaging	Notes
527601	1 l	Plastic bottle	
527600	2.5 l	Glass bottle	

For specifications, contact our customer service for a certificate of analysis

Hydrochloric acid 37% > RS - RSE - For electronic use

RS

Description	Clear liquid	Sulphite	≤0.5 ppm	Cr	≤0.01 ppm	Ni	≤0.01 ppm
Colour (APHA)	≤10	Ag	≤0.02 ppm	Cu	≤0.005 ppm	Pb	≤0.05 ppm
Identification	Positive	Al	≤0.05 ppm	Fe	≤0.1 ppm	Pt	≤0.05 ppm
Assay (acidimetric)	≥36.5 %	As	≤0.005 ppm	Ga	≤0.02 ppm	Sb	≤0.005 ppm
Density at 20° C	1.183 ÷ 1.189	Au	≤0.05 ppm	Hg	≤0.1 ppm	Sn	≤0.02 ppm
Ammonium	≤1 ppm	B	≤0.02 ppm	In	≤0.02 ppm	Sr	≤0.02 ppm
Bromide	≤2 ppm	Ba	≤0.05 ppm	K	≤0.1 ppm	Ta	≤0.1 ppm
Free chlorine	≤0.5 ppm	Be	≤0.02 ppm	Li	≤0.02 ppm	Ti	≤0.05 ppm
Phosphate	≤0.1 ppm	Bi	≤0.02 ppm	Mg	≤0.1 ppm	Tl	≤0.05 ppm
Heavy metals (Pb)	≤0.1 ppm	Ca	≤0.5 ppm	Mn	≤0.01 ppm	V	≤0.05 ppm
Residue on ignition	≤2 ppm	Cd	≤0.005 ppm	Mo	≤0.05 ppm	Zn	≤0.02 ppm
Sulphate	≤0.5 ppm	Co	≤0.01 ppm	Na	≤0.5 ppm	Zr	≤0.05 ppm

Code	Size	Packaging	Notes
403977	1 l	Glass bottle	
403971	2.5 l	Glass bottle	

Hydrochloric acid 37% > RS - MOS For electronic use

RS

Description	Clear liquid	Sulphite	≤0.5 ppm	Cr	≤0.01 ppm	Ni	≤0.01 ppm
Colour (APHA)	≤10	Ag	≤0.02 ppm	Cu	≤0.005 ppm	Pb	≤0.05 ppm
Identification	Positive	Al	≤0.05 ppm	Fe	≤0.1 ppm	Pt	≤0.05 ppm
Assay (acidimetric)	≥36.5 %	As	≤0.005 ppm	Ga	≤0.02 ppm	Sb	≤0.005 ppm
Density at 20° C	1.183 ÷ 1.189	Au	≤0.05 ppm	Hg	≤0.1 ppm	Sn	≤0.02 ppm
Ammonium	≤1 ppm	B	≤0.02 ppm	In	≤0.02 ppm	Sr	≤0.02 ppm
Bromide	≤2 ppm	Ba	≤0.05 ppm	K	≤0.1 ppm	Ta	≤0.1 ppm
Free chlorine	≤0.5 ppm	Be	≤0.02 ppm	Li	≤0.02 ppm	Ti	≤0.05 ppm
Phosphate	≤0.1 ppm	Bi	≤0.02 ppm	Mg	≤0.1 ppm	Tl	≤0.05 ppm
Heavy metals (Pb)	≤0.1 ppm	Ca	≤0.5 ppm	Mn	≤0.01 ppm	V	≤0.05 ppm
Residue on ignition	≤2 ppm	Cd	≤0.005 ppm	Mo	≤0.05 ppm	Zn	≤0.02 ppm
Sulphate	≤0.5 ppm	Co	≤0.01 ppm	Na	≤0.5 ppm	Zr	≤0.05 ppm

Code	Size	Packaging	Notes
403942	1 l	Glass bottle	
403941	2.5 l	Glass bottle	

Hydrochloric acid 37% > RPE - For analysis - ISO

RPE

Description ..... Clear liquid
Colour (APHA) ..... ≤10
Identification ..... Positive
Density at 20° C ..... 1.181 ÷ 1.189
Residue on evaporation ..... ≤100 ppm
Ammonium ..... ≤1 ppm
Bromide ..... ≤50 ppm
Free chlorine ..... ≤ 4 ppm
Phosphate ..... ≤0.5 ppm
Heavy metals (Pb) ..... ≤ 1 ppm
Residue on ignition ..... ≤5 ppm
Sulphate ..... ≤1 ppm
Sulphite ..... ≤0.5 ppm
Al ..... ≤0.2 ppm
As ..... ≤0.01 ppm
Ba ..... ≤0.1 ppm
Be ..... ≤0.02 ppm
Bi ..... ≤0.05 ppm
Ca ..... ≤0.5 ppm
Cd ..... ≤0.005 ppm
Co ..... ≤0.01 ppm
Cr ..... ≤0.02 ppm
Cu ..... ≤0.01 ppm
Fe ..... ≤0.2 ppm
Hg ..... ≤0.1 ppm
Li ..... ≤0.02 ppm
Mg ..... ≤0.3 ppm
Mn ..... ≤0.01 ppm
Mo ..... ≤0.05 ppm
Na ..... ≤0.5 ppm
Ni ..... ≤0.02 ppm
Pb ..... ≤0.05 ppm
Sr ..... ≤0.02 ppm
Ti ..... ≤0.05 ppm
Tl ..... ≤0.05 ppm
V ..... ≤ 0.5 ppm
Zn ..... ≤0.05 ppm
Zr ..... ≤0.05 ppm
Assay (acidimetric) ..... ≥36.5 %

Code	Size	Packaging	Notes
403871	1 l	Glass bottle	
403876	1 l	Glass bottle PVC coated	
524525	1 l	Plastic bottle	
403872	2.5 l	Glass bottle	
524526	2.5 l	Plastic bottle	
403878	5 l	Tank	
403874	25 kg	Plastic drum	

Hydrochloric acid 37% > ERBApharm - According to pharmacopoeia : Ph.Eur.-NF-FU-Ph.Franc.-BP-JP

ERBApharm

Description ..... Clear colourless liquid
Identification ..... Positive
Appearance of solution ..... Conform Ph.Eur.
Bromide or iodide ..... Conform USP-NF
Free chlorine or bromide .. Conform USP-NF
Sulphite ..... Conform USP-NF
Sulphate ..... Conform USP-NF
Density at 20° C ..... ~ 1.18
Residue on evaporation ..... ≤ 100 ppm
Residue on ignition ..... ≤ 80 ppm
Free chlorine ..... ≤ 4 ppm
Heavy metals (Pb) ..... ≤ 2 ppm
Assay (acidimetric) ..... 36.5 ÷ 38.0 %
As ..... ≤ 1 ppm
Hg ..... ≤ 0.04 ppm

Code	Size	Packaging	Notes
302621	1 l	Glass bottle	
302626	2.5 l	Glass bottle	
302643	5 l	Plastic tank	
302624	10 l	Plastic tank	
302623	25 kg	Plastic drum	
302622	40 kg	Plastic tank	
302627	55 kg	Plastic tank	
302625	220 kg	Polythene-metal drum	

Hydrochloric acid 37% > RE - Pure

RE

Assay ..... 36.0 ÷ 38.5 %
Description ..... Clear colourless liquid or yellowish
Residue on ignition ..... ≤ 20 ppm
Density at 20°C ..... 1.183 ÷ 1.189
Heavy metals ..... ≤ 5 ppm
Assay (acidimetric) ..... 36.5 - 37.5 %
Free chloride (Cl) ..... ≤ 20 ppm
Iron (Fe) ..... ≤ 2 ppm

Code	Size	Packaging	Notes
528525	5 l	Tank	

Hydrochloric acid 34-37%

Acido cloridrico 34-37% • Acide chlorhydrique 34-37% • Acido clorhidrico 34-37%

HCl
Molecular Weight: 36,46
CAS: 7647-01-0

Classification transport
ONU: 1789
Transport Hazard class: 8
Packing group II

Danger
H290-H314-H335
P264-P271-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Hydrochloric acid 34-37% > RS - Superpure - For trace analysis at ppb level

RS

Description	Clear liquid	Fe	≤ 1 ppb	Assay (acidimetric)	34 ÷ 37 %	Nb	≤ 0.1 ppb
Identification	Positive	Hg	≤ 0.1 ppb	Th	≤ 0.1 ppb	Pr	≤ 0.1 ppb
Bromide	≤ 10 ppm	K	≤ 1 ppb	U	≤ 0.1 ppb	Re	≤ 0.1 ppb
Free chlorine	≤ 0.5 ppm	Li	≤ 0.1 ppb	Colour (APHA)	≤ 10	Rh	≤ 0.1 ppb
Total phosphorus	≤ 0.01 ppm	Mg	≤ 0.5 ppb	Ce	≤ 0.1 ppb	Rb	≤ 0.1 ppb
Total sulphur	≤ 0.3 ppm	Mn	≤ 0.1 ppb	Cs	≤ 0.1 ppb	Ru	≤ 0.1 ppb
Ag	≤ 1 ppb	Mo	≤ 0.1 ppb	Dy	≤ 0.1 ppb	Sm	≤ 0.1 ppb
Al	≤ 1 ppb	Na	≤ 1 ppb	Er	≤ 0.1 ppb	Sc	≤ 0.1 ppb
As	≤ 0.5 ppb	Ni	≤ 0.5 ppb	Eu	≤ 0.1 ppb	Te	≤ 0.1 ppb
B	≤ 1 ppb	Pb	≤ 0.1 ppb	Gd	≤ 0.1 ppb	Tb	≤ 0.1 ppb
Ba	≤ 0.1 ppb	Sb	≤ 0.5 ppb	Ga	≤ 0.1 ppb	Tl	≤ 0.1 ppb
Be	≤ 0.1 ppb	Se	≤ 1 ppb	Au	≤ 0.5 ppb	Tm	≤ 0.1 ppb
Bi	≤ 0.1 ppb	Sn	≤ 0.5 ppb	Hf	≤ 0.1 ppb	W	≤ 0.1 ppb
Ca	≤ 1 ppb	Sr	≤ 0.1 ppb	Ho	≤ 0.1 ppb	Yb	≤ 0.1 ppb
Cd	≤ 0.1 ppb	Ti	≤ 0.5 ppb	In	≤ 0.1 ppb	Y	≤ 0.1 ppb
Co	≤ 0.1 ppb	V	≤ 0.5 ppb	La	≤ 0.1 ppb		
Cr	≤ 0.5 ppb	Zn	≤ 1 ppb	Lu	≤ 0.1 ppb		
Cu	≤ 0.5 ppb	Zr	≤ 0.1 ppb	Nd	≤ 0.1 ppb		

Code	Size	Packaging	Notes
403915	500 ml	Plastic bottle	
403916	1 l	Plastic bottle	
403917	2.5 l	Plastic bottle	

Hydrochloric acid 32-35%

Acido cloridrico 32-35% • Acide chlorhydrique 32-35% • Acido clorhidrico 32-35%

HCl
Molecular Weight: 36,46
CAS: 7647-01-0

Classification transport
ONU: 1789
Transport Hazard class: 8
Packing group II

Danger
H314-H318-H335
P264-P271-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Hydrochloric acid 32-35% > RS - Ultrapure - For trace analysis at ppt level

RS

Description	Clear colourless liquid	Cs	≤ 10 ppt	U	≤ 1 ppt	Rh	≤ 10 ppt
Identification	Positive	Cu	≤ 10 ppt	Th	≤ 1 ppt	Rb	≤ 10 ppt
Ag	≤ 10 ppt	Dy	≤ 1 ppt	Sb	≤ 20 ppt	Ru	≤ 10 ppt
Al	≤ 20 ppt	Mn	≤ 10 ppt	Gd	≤ 1 ppt	Sm	≤ 1 ppt
As	≤ 50 ppt	Eu	≤ 1 ppt	Ga	≤ 10 ppt	Sc	≤ 10 ppt
Au	≤ 50 ppt	Fe	≤ 10 ppt	Hf	≤ 10 ppt	Te	≤ 1 ppt
B	≤ 100 ppt	Ni	≤ 20 ppt	Ho	≤ 1 ppt	Tb	≤ 1 ppt
Ba	≤ 10 ppt	Pb	≤ 10 ppt	In	≤ 1 ppt	Tm	≤ 1 ppt
Be	≤ 10 ppt	Sn	≤ 20 ppt	La	≤ 1 ppt	W	≤ 10 ppt
Bi	≤ 10 ppt	Sr	≤ 10 ppt	Li	≤ 10 ppt	Yb	≤ 1 ppt
Ca	≤ 10 ppt	Tl	≤ 10 ppt	Lu	≤ 10 ppt	Y	≤ 1 ppt
Cd	≤ 10 ppt	Ti	≤ 10 ppt	Nd	≤ 1 ppt	Zr	≤ 10 ppt
Ce	≤ 10 ppt	V	≤ 10 ppt	Nb	≤ 1 ppt		
Co	≤ 10 ppt	Zn	≤ 10 ppt	Pr	≤ 1 ppt		
Cr	≤ 10 ppt	Assay (acidimetric)	32 ÷ 35 %	Re	≤ 10 ppt		

Code	Size	Packaging	Notes
403891	500 ml	Plastic bottle	

Hydrochloric acid 32% (20°Bé)

Acido cloridrico 32% (20°Bé) • Acide chlorhydrique 32% (20°Bé) • Acido clorhidrico 32% (20°Bé)

HCl
Molecular Weight: 36,461
CAS: 7647-01-0

Classification transport
ONU: 1789
Transport Hazard class: 8
Packing group II

Danger
H290-H314-H335
P264-P271-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Hydrochloric acid 32% (20°Bé) > RE - Pure

RE

Description ..... Yellow clear liquid Density at 20° C .....≥1.154 Assay (acidimetric) .....≥31.0 %

Code	Size	Packaging	Notes
302664	25 kg	Plastic drum	(20°Bè)

Hydrochloric acid 32%

Acido cloridrico 32% • Acide chlorhydrique 32% • Acido clorhidrico 32%

HCl
Molecular Weight: 36,46
CAS: 7647-01-0

Classification transport
ONU: 1789
Transport Hazard class: 8
Packing group II

Danger
H290-H314-H335
P264-P271-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Hydrochloric acid 32% > RPE - For analysis - ISO

RPE

Description .....Clear liquid
Colour (APHA) ..... ≤10
Identification .....Positive
Density at 20° C .....1.159 - 1.164
Ammonium.....≤1 ppm
Bromide.....≤50 ppm
Free chlorine.....≤ 4 ppm
Phosphate .....≤0.5 ppm
Heavy metals (Pb).....≤1 ppm
Residue on ignition.....≤5 ppm

Sulphate.....≤0.8 ppm
Sulphite.....≤0.5 ppm
Al.....≤0.05 ppm
As.....≤0.01 ppm
Ba.....≤0.1 ppm
Be.....≤0.02 ppm
Bi.....≤0.05 ppm
Ca.....≤0.5 ppm
Cd.....≤0.005 ppm
Co.....≤0.01 ppm

Cr.....≤0.02 ppm
Cu.....≤0.01 ppm
Fe.....≤0.1 ppm
Hg.....≤0.1 ppm
Li.....≤0.02 ppm
Mg.....≤0.3 ppm
Mn.....≤0.01 ppm
Mo.....≤0.05 ppm
Na.....≤0.5 ppm
Ni.....≤0.02 ppm

Pb.....≤0.05 ppm
Sr.....≤0.02 ppm
Ti.....≤0.05 ppm
Tl.....≤0.05 ppm
V.....≤0.5 ppm
Zn.....≤0.05 ppm
Zr.....≤0.05 ppm
Assay (acidimetric) .....32.0 - 33.0 %

Code	Size	Packaging	Notes
403981	2.5 l	Glass bottle	
403984	2.5 l	Plastic bottle	
403982	25 kg	Plastic drum	
403986	55 kg	Plastic drum	
403988	220 kg	Plastic drum	

Hydrochloric acid 32% > RE - Pure

RE

Description ...Clear colouless or light yellow liquid
Density at 20°C .....1.157 - 1.171

Free chlorine.....≤100 ppm
Heavy metals (Pb).....≤50 ppm

Residue on ignition..... ≤0.1 %
Sulphate.....≤200 ppm

Fe .....≤2 ppm
Assay .....32 ÷ 34 %

Code	Size	Packaging	Notes
302601	1 l	Glass bottle	
302602	25 kg	Fibre drum	
302604	30 kg	Plastic drum	

Hydrochloric acid 29 - 31 %

Acido cloridrico 29 - 31 % • Acide chlorhydrique 29 - 31 % • Acido clorhidrico 29 - 31 %

HCl
Molecular Weight: 36,46
CAS: 7647-01-0
EEC-N: 231-595-7

Classification transport
ONU: 1789
Transport Hazard class: 8
Packing group II

Danger
H290-H314-H335
P264-P271-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Hydrochloric acid 29 - 31 % > RS - Superpure - For trace analysis at ppb level

RS

Code	Size	Packaging	Notes
403921	1 l	Plastic bottle	

Hydrochloric acid 26%

Acido cloridrico 26% • Acide chlorhydrique 26% • Acido clorhidrico 26%

HCl
Molecular Weight: 36,46
CAS: 7647-01-0

Classification transport
ONU: 1789
Transport Hazard class: 8
Packing group II

Danger
H290-H314-H335
P264-P271-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Hydrochloric acid 26% > RE - Pure

RE

HCl content ..... 25 - 27 %

Code	Size	Packaging	Notes
PS0769/20	2.5 l		

Hydrochloric acid 25% w/v

Acido cloridrico 25% p/v • Acide chlorhydrique 25% m/v • Acido clorhidrico 25% p/v

HCl
Molecular Weight: 36,46
CAS: 7647-01-0

Classification transport
ONU: 1789
Transport Hazard class: 8
Packing group III

Warning
H290-H315-H319-H335
P264-P271-P280-P304+P340-P305+P351+P338-P312a

Hydrochloric acid 25% w/v > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611043501	1 l	Plastic bottle	Hydrochloric acid R1 Ref Ph.Eur 1043501

Hydrochloric acid 23%

Acido cloridrico 23% • Acide chlorhydrique 23% • Acido clorhidrico 23%

HCl
Molecular Weight: 36,46
CAS: 7647-01-0

Classification transport
ONU: 1789
Transport Hazard class: 8
Packing group III

Warning
H290-H315-H319-H335
P264-P271-P280-P304+P340-P305+P351+P338-P312a

Hydrochloric acid 23% > RPE - For analysis - ISO

RPE

Description ..... Clear liquid
Colour (APHA) ..... ≤10
Identification ..... Positive
Density at 20° C ..... 1.113 - 1.119
Ammonium ..... ≤1 ppm
Bromide ..... ≤50 ppm
Free chlorine ..... ≤4 ppm
Phosphate ..... ≤0.5 ppm
Heavy metals (Pb) ..... ≤1 ppm
Residue on ignition ..... ≤5 ppm
Sulphate ..... ≤0.8 ppm
Sulphite ..... ≤0.5 ppm
Al ..... ≤0.05 ppm
As ..... ≤0.01 ppm
Be ..... ≤0.02 ppm
Bi ..... ≤0.05 ppm
Ca ..... ≤0.5 ppm
Cd ..... ≤0.005 ppm
Co ..... ≤0.01 ppm
Cr ..... ≤0.02 ppm
Cu ..... ≤0.01 ppm
Fe ..... ≤0.1 ppm
Hg ..... ≤0.1 ppm
Li ..... ≤0.02 ppm
Mg ..... ≤0.3 ppm
Mn ..... ≤0.03 ppm
Mo ..... ≤0.05 ppm
Na ..... ≤0.5 ppm
Ni ..... ≤0.02 ppm
Pb ..... ≤0.05 ppm
Sr ..... ≤0.02 ppm
Ti ..... ≤0.05 ppm
Tl ..... ≤0.05 ppm
V ..... ≤0.5 ppm
Zn ..... ≤0.05 ppm
Zr ..... ≤0.05 ppm
Assay (acidimetric) ..... 23.0 - 24.0 %

Code	Size	Packaging	Notes
403901	1 l	Glass bottle	
403905	2.5 l	Glass bottle	
403909	25 kg	Plastic drum	

Hydrochloric acid 20%

Acido cloridrico 20% • Acide chlorhydrique 20% • Acido clorhidrico 20%

HCl
Molecular Weight: 36,46
CAS: 7647-01-0

Classification transport
ONU: 1789
Transport Hazard class: 8
Packing group III

Warning
H290-H315-H319-H335
P264-P271-P280-P304+P340-P305+P351+P338-P312a

Hydrochloric acid 20% > RE - Pure

RE

Assay ..... 19 - 21 %

Code	Size	Packaging	Notes
PS0751/29	5 l	Plastic tank	

Hydrochloric acid 12%
Acido cloridrico 12% • Acide chlorhydrique 12% • Acido clorhidrico 12%

HCl
Molecular Weight: 36.46
CAS: 7647-01-0

Classification transport
ONU: 1789
Transport Hazard class: 8
Packing group III

Warning
H290-H315-H319-H335
P264-P271-P280-P304+P340-P305+P351+P338-P312a

Hydrochloric acid 12% > RS - For analysis
RS

Assay ..... 11.5 - 12.5 %
Density d20/4 ..... 1.055 - 1.060
Clear liquid appearance ..... Conform
Identification ..... Conform
Colour ..... ≤ J7

Code	Size	Packaging	Notes
PS0347/22	5 l	Plastic tank	
PS0347/49	25 l	Plastic tank	
PS0347/66	200 l	Combined drum	

Hydrochloric acid 10%
Acido cloridrico 10% • Acide chlorhydrique 10% • Acido clorhidrico 10%

HCl
Molecular Weight: 36,46
CAS: 7647-01-0

Classification transport
ONU: 1789
Transport Hazard class: 8
Packing group III

Warning
H290-H315-H319-H335
P264-P271-P280-P304+P340-P305+P351+P338-P312a

Hydrochloric acid 10% > ERBApharm - According to pharmacopoeia : Ph.Eur.
ERBApharm

Description ..... Clear colourless liquid
Identification ..... Positive
Appearance ..... Conform Ph.Eur.
Free chlorine ..... ≤ 1 ppm
Sulphate ..... ≤ 5 ppm
Heavy metals (Pb) ..... ≤ 2 ppm
Residue on evaporation ..... ≤ 100 ppm
Assay ..... 9.5 - 10.5 % (m/m)
Residual solvents (Current ICH) ..... Conform

Code	Size	Packaging	Notes
302591	10 kg	Plastic tank	

Hydrochloric acid 10% > RE - Pure
RE

Hydrochloric acid content ..... 9.9 - 10.1 %

Code	Size	Packaging	Notes
PS0768/41	10 l	Plastic tank	

Hydrochloric acid 8%
Acido cloridrico 8% • Acide chlorhydrique 8% • Acido clorhidrico 8%

HCl
Molecular Weight: 36,46
CAS: 7647-01-0

Classification transport
ONU: 1789
Transport Hazard class: 8
Packing group III

Warning
H290
P234-P390-P406

Hydrochloric acid 8% > RPE - For analysis
RPE

Description ..... Clear colourless liquid
Density at 20° C ..... 1.037 - 1.043
Ammonium ..... ≤30 ppm
Free chlorine ..... ≤0.5 ppm
Heavy metals (Pb) ..... ≤1 ppm
Sulphate ..... ≤1 ppm
Sulphite ..... ≤1 ppm
As ..... ≤0.01 ppm
Fe ..... ≤0.3 ppm
Assay (acidimetric) ..... 8.0 - 9.0 %

Code	Size	Packaging	Notes
404033	10 kg	Plastic tank	
404036	55 kg	Plastic tank	

Hydrochloric acid 5%

Acido cloridrico 5% • Acide chlorhydrique 5% • Acido cloridrico 5%

HCl
Molecular Weight: 36,46
CAS: 7647-01-0

Classification transport
ONU: 1789
Transport Hazard class: 8
Packing group III

Warning
H290
P234-P390-P406

Hydrochloric acid 5% > ERBApharm - Prepared from raw material according Ph.Eur

ERBApharm

Hydrochloric acid content..... 4.5 - 5.5 %

Code	Size	Packaging	Notes
PS0864/41	10 l	Plastic tank	

Hydrochloric acid 1.128% (m/v)

Acido cloridrico 1.128% (m/v) • Acide chlorhydrique 1.128% (m/v) • Acido clorhidrico 1.128% (m/v)

HCl
Molecular Weight: 36,46
CAS: 7647-01-0

Classification transport
ONU: 1789
Transport Hazard class: 8
Packing group III

Warning
H290
P234-P390-P406

Hydrochloric acid 1.128% (m/v) > RS - For agroalimentary analysis

RS

Description ..... Clear colourless liquid Assay .....1.123 ÷ 1.133 % m/v

Code	Size	Packaging	Notes
502761	1 l	Plastic bottle	

Hydrochloric acid 6 mol/l (6N)

Acido cloridrico 6 mol/l (6N) • Acide chlorhydrique 6 mol/l (6N) • Acido clorhidrico 6 mol/l (6N)

HCl
Molecular Weight: 36,46
CAS: 7647-01-0

Classification transport
ONU: 1789
Transport Hazard class: 8
Packing group III

Warning
H290-H315-H319-H335
P264-P271-P280-P304+P340-P305+P351+P338-P312a

Hydrochloric acid 6 mol/l (6N) > RS - For agroalimentary analysis

RS

Description ..... Clear colourless liquid Assay .....5.97 ÷ 6.03 N Colour .....≤ 10 Hazen

Code	Size	Packaging	Notes
502831	1 l	Plastic bottle	
502832	18 l	Plastic tank	

Store between 15-30 °C

Hydrochloric acid 6 mol/l (6N) > RS - For analysis according to Ph. Eur. Chap. 4.2.2

RS

Code	Size	Packaging	Notes
613001500	1 l	Plastic bottle	Ref Ph.Eur 3001500

Hydrochloric acid 6 mol/l (6N) > ERBApharm - Prepared from raw material according Ph.Eur

ERBApharm

Assay (potentiometric) .....5.9 ÷ 6.1 mol/L

Code	Size	Packaging	Notes
528651	25 l	Plastic tank	

Content is guaranteed for standardized volumes at 20°C. Keep tightly closed

Hydrochloric acid 6 mol/l (6N) > RE - Pure

RE

Description ..... Clear colourless liquid Colour .....≤ 10 Hazen Assay .....5.95 ÷ 6.05 N

Code	Size	Packaging	Notes
528550000	5 l	Plastic tank	

Hydrochloric acid 5 mol/l (5N)

Acido cloridrico 5 mol/l (5N) • Acide chlorhydrique 5 mol/l (5N) • Acido clorhidrico 5 mol/l (5N)

HCl
Molecular Weight: 36,46
CAS: 7647-01-0

Classification transport
ONU: 1789
Transport Hazard class: 8
Packing group III

Warning
H290-H315-H319-H335
P264-P271-P280-P304+P340-P305+P351+P338-P312a

Hydrochloric acid 5 mol/l (5N) > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Assay (potentiometric) ..... 4.99 - 5.01 mol/L

Code	Size	Packaging	Notes
528731	25 l	Plastic tank	

Hydrochloric acid 5 mol/l (5N) > RPE - For analysis

RPE

Assay (potentiomety) ..... 4.995 - 5.005 N

Code	Size	Packaging	Notes
P3160015	1 l	Plastic bottle	
P3160095	5 l	Kubidos	

Hydrochloric acid 4 mol/l (4N)

Acido cloridrico 4 mol/l (4N) • Acide chlorhydrique 4 mol/l (4N) • Acido clorhidrico 4 mol/l (4N)

HCl
Molecular Weight: 36,46
CAS: 7647-01-0

Classification transport
ONU: 1789
Transport Hazard class: 8
Packing group III

Warning
H290-H315-H319-H335
P264-P271-P280-P304+P340-P305+P351+P338-P312a

Hydrochloric acid 4 mol/l (4N) > RS - For agroalimentary analysis

RS

Description ..... Clear colourless liquid Assay ..... 3.992 ÷ 4.008 N

Code	Size	Packaging	Notes
502010	1 l	Plastic bottle	

145,84 g of HCl. Ready-to-use. Content is guaranteed for standardized volumes at 20 °C. Keep tightly closed

Hydrochloric acid 4 mol/l (4N) > RPE - For analysis

RPE

Assay (potentiomety) ..... 3.992 - 4.008 N

Code	Size	Packaging	Notes
PS0589/15	1 l	Plastic bottle	
PS0589/22	5 l	Plastic tank	
PS0589/49	25 l	Plastic tank	

Hydrochloric acid 4 mol/l (4N) > ERBApharm - Prepared from raw material according Ph.Eur

ERBApharm

Identification (Ph.Eur)..... Conform Assay (Ph.Eur)..... 3.8 - 4.2 N Origine (BSE-TSE)..... Conform Residual solvents (Current ICH)..... Conform

Code	Size	Packaging	Notes
528681	1 l	Plastic bottle	

Hydrochloric acid 3 mol/l (3N)

Acido cloridrico 3 mol/l (3N) • Acide chlorhydrique 3 mol/l (3N) • Acido clorhidrico 3 mol/l (3N)

HCl
Molecular Weight: 36,46
CAS: 7647-01-0

Classification transport
ONU: 1789
Transport Hazard class: 8
Packing group III

Warning
H290-H315-H319-H335
P264-P271-P280-P304+P340-P305+P351+P338-P312a

Hydrochloric acid 3 mol/l (3N) > RS - For agroalimentary analysis

RS

Description ..... Clear colourless liquid Assay ..... 2.95 ÷ 3.05 N

Code	Size	Packaging	Notes
502621	1 l	Plastic bottle	
502622	2.5 l	Plastic bottle	
502011	25 l	Plastic tank	

Hydrochloric acid 2 mol/l (2N)

Acido cloridrico 2 mol/l (2N) • Acide chlorhydrique 2 mol/l (2N) • Acido clorhidrico 2 mol/l (2N)

HCl
Molecular Weight: 36,46
CAS: 7647-01-0

Classification transport
ONU: 1789
Transport Hazard class: 8
Packing group III

Warning
H290
P234-P390-P406

Hydrochloric acid 2 mol/l (2N) > RS - For analysis according to Ph. Eur. Chap. 4.2.2

RS

Code	Size	Packaging	Notes
613001700	1 l	Plastic bottle	Ref Ph.Eur 3001700

Hydrochloric acid 2 mol/l (2N) > RPE - For analysis

RPE

Description ..... Clear colourless liquid Assay (potentiometry) ..... 1.998 - 2.002 N NIST 723 ..... e

Code	Size	Packaging	Notes
404067000	1 l	Plastic bottle	
404062000	5 l	Kubidos	
404061000	10 l	Kubidos	

72.92 g of HCl. Volumetric solution ready-to-use. Traceable to NIST

Hydrochloric acid 2 mol/l (2N) > ERBApharm - Prepared from raw material according Ph.Eur

ERBApharm

Identification (Ph.Eur)..... Conform Assay (Ph.Eur)..... 1.9 -2.1 N Origine (BSE-TSE)..... Conform Residual solvents (Current ICH)..... Conform

Code	Size	Packaging	Notes
528691	1 l	Glass bottle	

Hydrochloric acid 1 mol/l (1N)

Acido cloridrico 1 mol/l (1N) • Acide chlorhydrique 1 mol/l (1N) • Acido clorhidrico 1 mol/l (1N)

HCl
Molecular Weight: 36.46
CAS: 7647-01-0

Classification transport
ONU: 1789
Transport Hazard class: 8
Packing group III

Warning
H290
P234-P390-P406

Hydrochloric acid 1 mol/l (1N) > RS - For analysis according to Ph. Eur. Chap. 4.2.2

RS

Code	Size	Packaging	Notes
613001801	500 ml	Plastic bottle	Ref Ph.Eur 3001800
613001800	1 l	Plastic bottle	Ref Ph.Eur 3001800

Hydrochloric acid 1 mol/l (1N) > RS - For analysis according to USP

RS

Code	Size	Packaging	Notes
617000191	1 l	Plastic bottle	

Hydrochloric acid 1 mol/l (1N) > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description ..... Clear colourless liquid Assay (potentiometry) ..... 0.998 - 1.002 N

Code	Size	Packaging	Notes
528673	5 l	Kubidos	
528671	10 l	Kubidos	
528672	200 l	Polythene-metal drum	

Content is guaranteed for standardized volumes at 20°C. Keep tightly closed

Hydrochloric acid 1 mol/l (1N) > RPE - For analysis

RPE

Description ..... Clear colourless liquid Assay (potentiometry) ..... 0.999 - 1.001 N NIST 723 ..... e

Code	Size	Packaging	Notes
404097000	1 l	Plastic bottle	
404092000	5 l	Kubidos	
404091000	10 l	Kubidos	
404094000	20 l	Plastic tank	

36.46 g of HCl. Volumetric solution ready-to-use. Traceable to NIST

Hydrochloric acid 1 mol/l (1N) > RPE - NORMEX - For analysis

RPE

Description ..... Clear colourless liquid Identification ..... Positive Titration factor ..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
404111		Plastic ampoule	Volume : 165 ml

36,46 g HCl. Volumetric concentrated solution to prepare 1 L of solution 1 N

Hydrochloric acid 1 mol/l (1N) > ERBApharm - Prepared from raw material according Ph.Eur

ERBApharm

Clear,colourless liquid ..... Conform Assay (Ph.Eur) ..... 0.95 - 1.05 N Residual solvents (Current ICH) ..... Conform
Identification (Ph.Eur) ..... Conform Origine (BSE-TSE) ..... Conform

Code	Size	Packaging	Notes
528583	1 l	Bottle	
528582	3 l	Plastic tank	
528584	5 l	Plastic tank	

Content is guaranteed for standardized volumes at 20°C. Keep tightly closed

Hydrochloric acid 0.714 mol/l (N/1.4)

Acido cloridrico 0.714 mol/l (N/1.4) • Acide chlorhydrique 0.714 mol/l (N/1.4) • Acido clorhídrico 0.714 mol/l (N/1.4)

HCl
Molecular Weight: 36,46
CAS: 7647-01-0

Classification transport
ONU: 1789
Transport Hazard class: 8
Packing group III

Warning
H290
P234-P390-P406

Hydrochloric acid 0.714 mol/l (N/1.4) > RS - For agroalimentary analysis

RS

Description ..... Clear colourless liquid Assay ..... 0.710 ÷ 0.718 N

Code	Size	Packaging	Notes
526531	10 l	Kubidos	

Content is guaranteed for standardized volumes at 20°C. Keep tightly closed

Hydrochloric acid 0.5 mol/l (0.5N)

Acido cloridrico 0.5 mol/l (0.5N) • Acide chlorhydrique 0.5 mol/l (0.5N) • Acido clorhidrico 0.5 mol/l (0.5N)

HCl
Molecular Weight: 36,46
CAS: 7647-01-0

Classification transport
ONU: 1789
Transport Hazard class: 8
Packing group III

Warning
H290
P234-P390-P406

Hydrochloric acid 0.5 mol/l (0.5N) > RPE - For analysis

RPE

Description ..... Clear colourless liquid Assay (potentiometry) ..... 0.4995 - 0.5005 N NIST 723 ..... e

Code	Size	Packaging	Notes
404147000	1 l	Plastic bottle	
404142000	5 l	Kubidos	
404141000	10 l	Kubidos	

18.23 g of HCl. Volumetric solution ready-to-use. Traceable to NIST

Hydrochloric acid 0.5 mol/l (0.5N) > RPE - NORMEX - For analysis

RPE

Description ..... Clear colourless liquid Identification ..... Positive Titration factor ..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
404161		Plastic ampoule	Volume : 165 ml

18,230 g HCl. Volumetric concentrated solution to prepare 1 L of solution 0,5 N

Hydrochloric acid 0.2 mol/l (0.2N)

Acido cloridrico 0.2 mol/l (0.2N) • Acide chlorhydrique 0.2 mol/l (0.2N) • Acido clorhidrico 0.2 mol/l (0.2N)

HCl
Molecular Weight: 36,46
CAS: 7647-01-0

Classification transport
ONU: 1789
Transport Hazard class: 8
Packing group III

Warning
H290
P234-P390-P406

Hydrochloric acid 0.2 mol/l (0.2N) > RS - For agroalimentary analysis

RS

Description ..... Clear colourless liquid Assay ..... 0.195 ÷ 0.205 N

Code	Size	Packaging	Notes
502631	1 l	Plastic bottle	

7,292 g of HCl. Ready-to-use solution according to NF V04-242. Content is guaranteed for standardized volumes at 20 °C. Keep tightly closed

Hydrochloric acid 0.2 mol/l (0.2N) in propanol-2

Acido cloridrico 0.2 mol/l (0.2N) in isopropanolo • Acide chlorhydrique 0.2 mol/l (0.2N) dans propanol-2 • Acido clorhidrico 0.2 mol/l (0.2N) en propanol-2

HCl
Molecular Weight: 36,46
CAS: 7647-01-0

Classification transport
ONU: 2733
Transport Hazard class: 3
Packing group II

Danger
H225-H319-H336
P210-P241-P264-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

Hydrochloric acid 0.2 mol/l (0.2N) in propanol-2 > RPE - For analysis

RPE

Description ..... Clear colourless liquid Color ..... ≤ 10 APHA Assay ..... 0,195 ÷ 0,205 N

Code	Size	Packaging	Notes
526535	1 l	Glass bottle	

Hydrochloric acid 0.1 mol/l (0.1N)

Acido cloridrico 0.1 mol/l (0.1N) • Acide chlorhydrique 0.1 mol/l (0.1N) • Acido clorhidrico 0.1 mol/l (0.1N)

HCl
Molecular Weight: 36,46
CAS: 7647-01-0

Classification transport
ONU: 1789
Transport Hazard class: 8
Packing group III

Warning
H290
P234-P390-P406

Hydrochloric acid 0.1 mol/l (0.1N) > RS - For analysis according to Ph. Eur. Chap. 4.2.2 — RS

Code	Size	Packaging	Notes
613002101	500 ml	Plastic bottle	Ref Ph.Eur 3002100
613002100	1 l	Plastic bottle	Ref Ph.Eur 3002100

Hydrochloric acid 0.1 mol/l (0.1N) > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP — RPE

Description ..... Clear colourless liquid Assay (potentiometric) ..... 0.0998 - 0.1002 mol/L

Code	Size	Packaging	Notes
528573	5 l	Kubidos	
528571	10 l	Kubidos	

Content is guaranteed for standardized volumes at 20°C. Keep tightly closed

Hydrochloric acid 0.1 mol/l (0.1N) > RPE - For analysis — RPE

Description ..... Clear colourless liquid Assay (potentiometry) ..... 0.0999 - 0.1001 N NIST 723 ..... e

Code	Size	Packaging	Notes
404197000	1 l	Plastic bottle	
404192000	5 l	Kubidos	
404191000	10 l	Kubidos	
404195000	10 l	Plastic tank	

3.646 g of HCl. Volumetric solution ready-to-use : 0.1N. Traceable to NIST

Hydrochloric acid 0.1 mol/l (0.1N) > RPE - NORMEX - For analysis — RPE

Description ..... Clear colourless liquid Identification ..... Positive Titration factor ..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
404211		Plastic ampoule	Volume : 55 ml

3,646 g HCl. Volumetric concentrated solution to prepare 1 L of solution 0,1 N

Hydrochloric acid 0.1 mol/l (0.1N) > ERBApharm - Prepared from raw material according Ph.Eur — ERBApharm

Clear,colourless liquid ..... Conform Assay (Ph.Eur) ..... 0.095 - 0.105 N Residual solvents (Current ICH) ..... Conform
Identification (Ph.Eur) ..... Conform Origine (BSE-TSE) ..... Conform

Code	Size	Packaging	Notes
528661	1 l	Glass bottle	
528662	5 l	Plastic tank	

Content is guaranteed for standardized volumes at 20°C. Keep tightly closed

Hydrochloric acid 0.1 mol/l (0.1N) in ethanol

Acido cloridrico 0.1 mol/l (0.1N) in etanolo • Acide chlorhydrique 0.1 mol/l (0.1N) dans l'éthanol • Acido clorhidrico 0.1 mol/l (0.1N) en etanol

HCl
Molecular Weight: 36,46
CAS: 7647-01-0

Classification transport
ONU: 1993

Hydrochloric acid 0.1 mol/l (0.1N) in ethanol > RS - For analysis according to Ph. Eur. Chap. 4.2.2 — RS

Code	Size	Packaging	Notes
613008800	1 l	Glass bottle	Ref Ph.Eur 3008800

Hydrochloric acid 0.1 mol/l (0.1N) in propanol-2

Acido cloridrico 0.1 mol/l (0.1N) in isopropanolo • Acide chlorhydrique 0.1 mol/l (0.1N) dans propanol-2 • Acido clorhidrico 0.1 mol/l (0.1N) en propanol-2

HCl
Molecular Weight: 36,46
CAS: 7647-01-0

Classification transport
ONU: 1219
Transport Hazard class: 3
Packing group II

Danger
H225-H319-H336
P210-P241-P264-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

Hydrochloric acid 0.1 mol/l (0.1N) in propanol-2 > RPE - For analysis

RPE

Description ..... Clear liquid Color ..... ≤ 10 APHA Assay ..... 0,095 ÷ 0.105 N

Code	Size	Packaging	Notes
526536	1 l	Plastic bottle	

Hydrochloric acid 0.0714 mol/l (N/14)

Acido cloridrico 0.0714 mol/l (N/14) • Acide chlorhydrique 0.0714 mol/l (N/14) • Acido clorhídrico 0.0714 mol/l (N/14)

HCl
Molecular Weight: 36,46
CAS: 7647-01-0

Classification transport
ONU: 1789
Transport Hazard class: 8
Packing group III

Warning
H290
P234-P390-P406

Hydrochloric acid 0.0714 mol/l (N/14) > RS - For agroalimentary analysis

RS

Description ..... Clear colourless liquid Assay ..... 0.0710 ÷ 0.0718 N

Code	Size	Packaging	Notes
526533	10 l	Kubidos	

Content is guaranteed for standardized volumes at 20°C. Keep tightly closed

Hydrochloric acid 0.05 mol/l (0.05N)

Acido cloridrico 0.05 mol/l (0.05N) • Acide chlorhydrique 0.05 mol/l (0.05N) • Acido clorhidrico 0.05 mol/l (0.05N)

HCl
Molecular Weight: 36.46
CAS: 7647-01-0

Classification transport
ONU: 1789
Transport Hazard class: 8
Packing group III

Warning
H290
P234-P390-P406

Hydrochloric acid 0.05 mol/l (0.05N) > RPE - For analysis

RPE

Assay (potentiomety) ..... 0.0499 - 0.0501 N

Code	Size	Packaging	Notes
PS0587/15	1 l	Plastic bottle	
PS0587/22	5 l	Plastic tank	

Hydrochloric acid 0.02 mol/l (0.02N)

Acido cloridrico 0.02 mol/l (0.02N) • Acide chlorhydrique 0.02 mol/l (0.02N) • Acido clorhidrico 0.02 mol/l (0.02N)

HCl
Molecular Weight: 36,46
CAS: 7647-01-0

Classification transport
ONU: 1789
Transport Hazard class: 8
Packing group III

Warning
H290
P234-P390-P406

Hydrochloric acid 0.02 mol/l (0.02N) > RPE - For analysis

RPE

Description ..... Clear colourless liquid Assay (acidimetric) ..... 0.01996 ÷ 0.02004 mol/L

Code	Size	Packaging	Notes
PS0342/15	1 l	Plastic bottle	
526537	5 l	Plastic tank	

Hydrochloric acid 0.01 mol/l (0.01N)

Acido cloridrico 0.01 mol/l (0.01N) • Acide chlorhydrique 0.01 mol/l (0.01N) • Acido clorhidrico 0.01 mol/l (0.01N)

HCl
Molecular Weight: 36,46
CAS: 7647-01-0

Classification transport
ONU: 1789
Transport Hazard class: 8
Packing group III

Warning
H290
P234-P390-P406

Hydrochloric acid 0.01 mol/l (0.01N) > RPE - For analysis

RPE

Description ..... Clear colourless liquid Assay (potentiometry) ..... 0.00998 - 0.01002 N NIST 84 I

Code	Size	Packaging	Notes
404267	1 l	Plastic bottle	

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Hydrochloric acid 0.01 mol/l (0.01N) > RPE - NORMEX - For analysis

RPE

Description ..... Clear colourless liquid Identification ..... Positive Titration factor ..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
404251		Plastic ampoule	Volume : 55 ml

0,3646 g HCl. Volumetric concentrated solution to prepare 1 L of solution 0,01 N

Hydrochloric acid-d 1 mol/l

Acido cloridrico-d 1 mol/l • Acide chlorhydrique-d 1 mol/l • Acido clorhidrico-d 1 mol/l

DCl
Molecular Weight: 37,47
CAS: 7698-05-7

Classification transport
ONU: 1789
Transport Hazard class: 8
Packing group III

Warning
H290-H315-H319-H335
P264-P271-P280-P304+P340-P305+P351+P338-P312a

Hydrochloric acid-d 1 mol/l > RS - For NMR - min 99.8%

RS

Code	Size	Packaging	Notes
P5695	25 ml	Glass bottle	

Hydrochloric acid-d 20%

Acido cloridrico-d 20% • Acide chlorhydrique-d 20% • Acido clorhidrico-d 20%

Synonym:
Deuterium chloride
Deutero-hydrochloric acid

DCl
Molecular Weight: 37,47
CAS: 7698-05-7

Classification transport
ONU: 1789
Transport Hazard class: 8
Packing group II

Hydrochloric acid-d 20% > RS - For NMR - min 99.95%

RS

Code	Size	Packaging	Notes
P5685	25 ml	Glass bottle	

Hydrochloric acid, dilute

Acido cloridrico diluito • Acide chlorhydrique dilué • Acido clorhídrico diluido

HCl
Molecular Weight: 36,46
CAS: 7647-01-0

HEU210

Hydrochloric acid, dilute > RS - For analysis according to Ph. Eur. Chap. 2.2.2

RS

Code	Size	Packaging	Notes
612202400	1 l	Plastic bottle	Dilution matrix HCl 10g/L

Hydrochloric acid, dilute > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611043503	1 l	Plastic bottle	Ref Ph.Eur 1043503
611043504	1 l	Plastic bottle	Hydrochloric acid, dilute R1 Ref Ph.Eur 1043504

Hydrochloric acid, brominated

Acido cloridrico bromurato • Acide chlorhydrique bromé • Acido clorhídrico brominado

HCl
Molecular Weight: 36,46
CAS: 7647-01-0

Classification transport
ONU: 2922
Transport Hazard class: 8
Packing group I

Danger
H330-H314-H318
P264-P271-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Hydrochloric acid, brominated > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611043507	1 l	Glass bottle	Ref Ph.Eur 1043507

Hydrofluoric acid 50%

Acido fluoridrico 50% • Acide fluorhydrique 50% • Acido fluorhídrico 50%

HF
Molecular Weight: 20
CAS: 7664-39-3

Classification transport
ONU: 1790
Transport Hazard class: 8
Packing group II

Danger
H310-H330-H314
P264-P271-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Hydrofluoric acid 50% > RS - RSE - For electronic use

RS

Description	Clear liquid	Sulphate	≤1 ppm	Co	≤0.01 ppm	Ni	≤0.05 ppm
Colour (APHA)	≤10	Sulphite	≤2 ppm	Cr	≤0.01 ppm	Pb	≤0.02 ppm
Identification	Positive	Ag	≤0.02 ppm	Cu	≤0.01 ppm	Pt	≤0.02 ppm
Assay (acidimetric)	49.0 ÷ 51.0 %	Al	≤0.05 ppm	Fe	≤0.1 ppm	Sb	≤0.01 ppm
Density at 20°C	~ 1.17	As	≤0.03 ppm	Ga	≤0.02 ppm	Sn	≤0.02 ppm
Hydrofluosilicic acid	≤20 ppm	Au	≤0.02 ppm	In	≤0.02 ppm	Sr	≤0.02 ppm
Chloride	≤1 ppm	B	≤0.02 ppm	K	≤0.1 ppm	Ta	≤0.1 ppm
Phosphate	≤0.5 ppm	Ba	≤0.1 ppm	Li	≤0.02 ppm	Ti	≤0.1 ppm
Heavy metals (Pb)	≤0.1 ppm	Be	≤0.01 ppm	Mg	≤0.1 ppm	Tl	≤0.02 ppm
Nitrate	≤3 ppm	Bi	≤0.02 ppm	Mn	≤0.01 ppm	V	≤0.01 ppm
Residue on ignition	≤5 ppm	Ca	≤0.1 ppm	Mo	≤0.01 ppm	Zn	≤0.05 ppm
Subst. reducing KMn04	≤4 ppm	Cd	≤0.01 ppm	Na	≤0.2 ppm	Zr	≤0.01 ppm

Code	Size	Packaging	Notes
405737	1 l	Plastic bottle	

Considered as toxic gas

Hydrofluoric acid 50% > RS - MOS For electronic use

RS

Description	Clear colourless liquid	Sulphate	≤1 ppm	Co	≤0.01 ppm	Ni	≤0.01 ppm
Colour (APHA)	≤10	Sulphite	≤2 ppm	Cr	≤0.01 ppm	Pb	≤0.02 ppm
Identification	Positive	Ag	≤0.02 ppm	Cu	≤0.01 ppm	Pt	≤0.02 ppm
Assay (acidimetric)	49.0 ÷ 51.0 %	Al	≤0.05 ppm	Fe	≤0.1 ppm	Sb	≤0.01 ppm
Density at 20° C	1.152 ÷ 1.158	As	≤0.03 ppm	Ga	≤0.02 ppm	Sn	≤0.02 ppm
Hydrofluosilicic acid	≤20 ppm	Au	≤0.02 ppm	In	≤0.02 ppm	Sr	≤0.02 ppm
Chloride	≤1 ppm	B	≤0.02 ppm	K	≤0.1 ppm	Ta	≤0.1 ppm
Phosphate	≤0.5 ppm	Ba	≤0.1 ppm	Li	≤0.02 ppm	Ti	≤0.1 ppm
Heavy metals (Pb)	≤0.1 ppm	Be	≤0.01 ppm	Mg	≤0.1 ppm	Tl	≤0.02 ppm
Nitrate	≤3 ppm	Bi	≤0.02 ppm	Mn	≤0.01 ppm	V	≤0.01 ppm
Residue on ignition	≤5 ppm	Ca	≤0.1 ppm	Mo	≤0.01 ppm	Zn	≤0.05 ppm
Subst. reducing KMn04	≤4 ppm	Cd	≤0.01 ppm	Na	≤0.2 ppm	Zr	≤0.01 ppm

Code	Size	Packaging	Notes
405653	1 l	Plastic bottle	

Considered as toxic gas

Hydrofluoric acid 50% > RPE - For analysis - ACS - ISO

RPE

Description	Clear liquid	Sulphate	≤2 ppm	Co	≤0.02 ppm	Ni	≤0.05 ppm
Colour (APHA)	≤10	Sulphite	≤2 ppm	Cr	≤0.05 ppm	Pb	≤0.2 ppm
Identification	Positive	Ag	≤0.02 ppm	Cu	≤0.02 ppm	Sr	≤0.02 ppm
Density at 20° C	1.152 ÷ 1.158	Al	≤0.05 ppm	Fe	≤0.2 ppm	Ti	≤0.1 ppm
Hydrofluosilicic acid	≤20 ppm	As	≤0.05 ppm	K	≤0.1 ppm	Tl	≤0.05 ppm
Chloride	≤1 ppm	Ba	≤0.1 ppm	Li	≤0.02 ppm	V	≤0.05 ppm
Phosphate	≤0.5 ppm	Be	≤0.02 ppm	Mg	≤0.2 ppm	Zn	≤0.05 ppm
Heavy metals (Pb)	≤0.5 ppm	Bi	≤0.1 ppm	Mn	≤0.05 ppm	Zr	≤0.1 ppm
Residue on ignition	≤5 ppm	Ca	≤0.5 ppm	Mo	≤0.05 ppm	Assay (acidimetric)	49 ÷ 51 %
Subst. reducing KMn04	≤4 ppm	Cd	≤0.01 ppm	Na	≤0.5 ppm		

Code	Size	Packaging	Notes
405722	1 l	Plastic bottle	
405728	5 l	Plastic bottle	

Considered as toxic gas

Hydrofluoric acid 47-51%

Acido fluoridrico 47-51% • Acide fluorhydrique 47-51% • Acido fluorhídrico 47-51%

HF
Molecular Weight: 20
CAS: 7664-39-3

Classification transport
ONU: 1790
Transport Hazard class: 8
Packing group II

Danger
H310-H330-H314
P264-P271-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Hydrofluoric acid 47-51% > RS - Ultrapure - For trace analysis at ppt level

RS

Description	Clear liquid	Er	≤ 1 ppt	Mo	≤ 10 ppt	Te	≤ 1 ppt
Identification	Positive	Eu	≤ 1 ppt	Nd	≤ 1 ppt	Tb	≤ 1 ppt
Al	≤ 20 ppt	Gd	≤ 1 ppt	Ni	≤ 20 ppt	Tl	≤ 10 ppt
Sb	≤ 20 ppt	Ga	≤ 10 ppt	Nb	≤ 10 ppt	Th	≤ 1 ppt
As	≤ 50 ppt	Ge	≤ 10 ppt	Pd	≤ 20 ppt	Tm	≤ 1 ppt
Ba	≤ 10 ppt	Au	≤ 20 ppt	Pt	≤ 20 ppt	Sn	≤ 20 ppt
Be	≤ 10 ppt	Hf	≤ 10 ppt	K	≤ 10 ppt	Ti	≤ 20 ppt
Bi	≤ 10 ppt	Ho	≤ 1 ppt	Pr	≤ 1 ppt	W	≤ 20 ppt
B	≤ 100 ppt	In	≤ 1 ppt	Re	≤ 10 ppt	U	≤ 1 ppt
Cd	≤ 10 ppt	Fe	≤ 10 ppt	Rh	≤ 20 ppt	V	≤ 10 ppt
Ca	≤ 10 ppt	La	≤ 10 ppt	Rb	≤ 20 ppt	Yb	≤ 1 ppt
Ce	≤ 10 ppt	Pb	≤ 10 ppt	Ru	≤ 20 ppt	Y	≤ 1 ppt
Cs	≤ 10 ppt	Li	≤ 10 ppt	Sm	≤ 1 ppt	Total sulphur	≤ 100 ppb
Cr	≤ 10 ppt	Lu	≤ 1 ppt	Sc	≤ 10 ppt	Zr	≤ 10 ppt
Co	≤ 10 ppt	Mg	≤ 10 ppt	Ag	≤ 10 ppt	Assay	47 ÷ 51 %
Cu	≤ 10 ppt	Mn	≤ 10 ppt	Na	≤ 10 ppt		
Dy	≤ 1 ppt	Hg	≤ 50 ppt	Sr	≤ 10 ppt		

Code	Size	Packaging	Notes
405611	500 ml	Plastic bottle	

Hydrofluoric acid 47-51% > RS - Superpure - For trace analysis at ppb level

RS

Description	Clear liquid	Cr	≤ 1 ppb	Mg	≤ 1 ppb	Ag	≤ 0.5 ppb
Identification	Positive	Co	≤ 0.1 ppb	Mn	≤ 0.1 ppb	Na	≤ 1 ppb
Colour (APHA)	≤ 10	Cu	≤ 0.5 ppb	Hg	≤ 1 ppb	Sr	≤ 0.1 ppb
Chloride	≤ 4 ppm	Dy	≤ 0.1 ppb	Mo	≤ 0.1 ppb	Te	≤ 0.1 ppb
Total phosphorus	≤ 0.05 ppm	Er	≤ 0.1 ppb	Nd	≤ 0.1 ppb	Tb	≤ 0.1 ppb
Total sulphur	≤ 0.1 ppm	Eu	≤ 0.1 ppb	Ni	≤ 0.5 ppb	Tl	≤ 0.1 ppb
Hydrofluosilicic acid	≤ 20 ppm	Gd	≤ 0.1 ppb	Nb	≤ 0.1 ppb	Th	≤ 0.1 ppb
Al	≤ 1 ppb	Ga	≤ 0.1 ppb	Pd	≤ 0.2 ppb	Tm	≤ 0.1 ppb
Sb	≤ 0.2 ppb	Ge	≤ 0.1 ppb	Pt	≤ 0.2 ppb	Sn	≤ 0.5 ppb
As	≤ 0.5 ppb	Au	≤ 0.2 ppb	K	≤ 1 ppb	Ti	≤ 1 ppb
Ba	≤ 0.1 ppb	Hf	≤ 0.1 ppb	Pr	≤ 0.1 ppb	W	≤ 0.5 ppb
Be	≤ 0.1 ppb	Ho	≤ 0.1 ppb	Re	≤ 0.1 ppb	U	≤ 0.1 ppb
Bi	≤ 0.1 ppb	In	≤ 0.1 ppb	Rh	≤ 0.1 ppb	V	≤ 0.1 ppb
B	≤ 1 ppb	Fe	≤ 1 ppb	Rb	≤ 0.1 ppb	Yb	≤ 0.1 ppb
Cd	≤ 0.1 ppb	La	≤ 0.1 ppb	Ru	≤ 0.1 ppb	Y	≤ 0.1 ppb
Ca	≤ 1 ppb	Pb	≤ 0.1 ppb	Sm	≤ 0.1 ppb	Zn	≤ 1 ppb
Ce	≤ 0.1 ppb	Li	≤ 0.1 ppb	Sc	≤ 0.1 ppb	Zr	≤ 0.1 ppb
Cs	≤ 0.1 ppb	Lu	≤ 0.1 ppb	Se	≤ 1 ppb	Assay	47 ÷ 51 %

Code	Size	Packaging	Notes
405716	500 ml	Plastic bottle	

Hydrofluoric acid 39.5%

Acido fluoridrico 39,5% • Acide fluorhydrique 39.5% • Acido fluorhídrico 39.5%

HF
Molecular Weight: 20
CAS: 7664-39-3

Classification transport
ONU: 1790
Transport Hazard class: 8
Packing group II

Danger
H300-H310-H330-H314-H318
P264-P271-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Hydrofluoric acid 39.5% > RPE - For analysis - ACS - ISO

RPE

Description	Clear colourless liquid	Sulphate	≤ 2 ppm	Co	≤ 0.02 ppm	Ni	≤ 0.02 ppm
Identification	Positive	Sulphite	≤ 2 ppm	Cr	≤ 0.05 ppm	Pb	≤ 0.05 ppm
Density at 20° C	1.127 ÷ 1.133	Ag	≤ 0.02 ppm	Cu	≤ 0.02 ppm	Sr	≤ 0.02 ppm
Assay (acidimetric)	39.1 ÷ 39.9 %	Al	≤ 0.05 ppm	Fe	≤ 0.2 ppm	Ti	≤ 0.1 ppm
Hydrofluosilicic acid	≤ 20 ppm	As	≤ 0.05 ppm	K	≤ 0.1 ppm	Tl	≤ 0.05 ppm
Chloride	≤ 1 ppm	Ba	≤ 0.1 ppm	Li	≤ 0.02 ppm	V	≤ 0.05 ppm
Phosphate	≤ 0.5 ppm	Be	≤ 0.02 ppm	Mg	≤ 0.2 ppm	Zn	≤ 0.05 ppm
Heavy metals (Pb)	≤ 0.5 ppm	Bi	≤ 0.1 ppm	Mn	≤ 0.05 ppm	Zr	≤ 0.1 ppm
Residue on ignition	≤ 5 ppm	Ca	≤ 0.5 ppm	Mo	≤ 0.05 ppm		
Subst. reducing KMnO4	≤ 4 ppm	Cd	≤ 0.01 ppm	Na	≤ 0.5 ppm		

Code	Size	Packaging	Notes
405761	1 l	Plastic bottle	
405765	5 l	Plastic bottle	

Hydrofluoric acid 39.5% > RE - Pure

RE

Description	Clear colourless liquid	Residue on ignition	≤ 0.5 %	Fe	≤ 500 ppm
Identification	Positive	Sulphate	≤ 1 %	Assay (acidimetric)	38.0 ÷ 39.9 %

Code	Size	Packaging	Notes
303731	1 l	Plastic bottle	

Hydrogen peroxide solution 40% w/v

Perossido di idrogeno soluzione 40% m/v • Eau oxygénée solution 40% m/v • Hidrógeno peróxido solución 40% p/v

H_2O_2
Molecular Weight: 34,01
CAS: 7722-84-1

Classification transport
ONU: 2014
Transport Hazard class: 5.1
Packing group II

Danger
H302-H315-H318-H335
P264-P271-P280-P304+P340-P305+P351+P338-P330

Hydrogen peroxide solution 40% w/v > RE - Pure - Stabilized

RE

Description	Clear colourless liquid	Identification	Positive	Density at 18° C	1.127 ÷ 1.137	Assay (oxidimetric)	≥39 % m/v

Code	Size	Packaging	Notes
307701	1 l	Plastic bottle	
307708	5 l	Plastic bottle	
307709	60 kg	Plastic tank	

Hydrogen peroxide solution 30-32%

Perossido di idrogeno soluzione 30-32% • Eau oxygénée solution 30-32% • Hidrógeno peróxido solución 30-32%

H_2O_2
Molecular Weight: 34,01
CAS: 7722-84-1

Classification transport
ONU: 2014
Transport Hazard class: 5.1
Packing group II

Danger
H318-H302
P280-P270-P305+P351+P338-P301+P312

Hydrogen peroxide solution 30-32% > RS - Ultrapure - For trace analysis at ppt level

RS

Description	Clear colourless liquid	Er	≤ 1 ppt	Mo	≤ 10 ppt	Ta	≤ 10 ppt
Identification	Positive	Eu	≤ 1 ppt	Nd	≤ 1 ppt	Te	≤ 1 ppt
Al	≤ 50 ppt	Gd	≤ 1 ppt	Ni	≤ 20 ppt	Tb	≤ 1 ppt
Sb	≤ 10 ppt	Ga	≤ 10 ppt	Nb	≤ 10 ppt	Tl	≤ 1 ppt
As	≤ 100 ppt	Ge	≤ 10 ppt	Pd	≤ 10 ppt	Th	≤ 1 ppt
Ba	≤ 10 ppt	Au	≤ 10 ppt	K	≤ 20 ppt	Tm	≤ 1 ppt
Be	≤ 10 ppt	Hf	≤ 1 ppt	Pr	≤ 1 ppt	Sn	≤ 50 ppt
Bi	≤ 10 ppt	Ho	≤ 1 ppt	Re	≤ 10 ppt	Ti	≤ 20 ppt
B	≤ 100 ppt	In	≤ 1 ppt	Rh	≤ 10 ppt	W	≤ 20 ppt
Cd	≤ 10 ppt	Fe	≤ 20 ppt	Rb	≤ 10 ppt	U	≤ 1 ppt
Ca	≤ 100 ppt	La	≤ 1 ppt	Ru	≤ 10 ppt	V	≤ 10 ppt
Ce	≤ 1 ppt	Pb	≤ 10 ppt	Sm	≤ 1 ppt	Yb	≤ 1 ppt
Cs	≤ 1 ppt	Li	≤ 10 ppt	Sc	≤ 10 ppt	Y	≤ 1 ppt
Cr	≤ 10 ppt	Lu	≤ 1 ppt	Se	≤ 100 ppt	Zn	≤ 50 ppt
Co	≤ 10 ppt	Mg	≤ 20 ppt	Ag	≤ 10 ppt	Zr	≤ 10 ppt
Cu	≤ 10 ppt	Mn	≤ 10 ppt	Na	≤ 50 ppt	Assay	30 ÷ 32 % (p/p)
Dy	≤ 1 ppt	Hg	≤ 50 ppt	Sr	≤ 10 ppt		

Code	Size	Packaging	Notes
412051	500 ml	Plastic bottle	

Hydrogen peroxide solution 30%

Perossido di idrogeno soluzione 30% • Eau oxygénée solution 30% • Hidrógeno peróxido solución 30%

H_2O_2
Molecular Weight: 34,01
CAS: 7722-84-1

Classification transport
ONU: 2014
Transport Hazard class: 5.1
Packing group II

Danger
H318-H302
P280-P270-P305+P351+P338-P301+P312

Hydrogen peroxide solution 30% > RS - VLSI For electronic use

RS

Code	Size	Packaging	Notes
527621	1 l	Bottle	
527620	2.5 l	Bottle	

For specifications, contact our customer service for a certificate of analysis

Hydrogen peroxide solution 30% > RS - RSE - For electronic use - Stabilized

RS

Description	Clear liquid	Chloride	≤0.5 ppm	Ca	≤0.05 ppm	Mn	≤0.01 ppm
Colour (APHA)	≤10	Phosphate	≤1 ppm	Cd	≤0.01 ppm	Na	≤0.05 ppm
Identification	Positive	Heavy metals (Pb)	≤1 ppm	Co	≤0.01 ppm	Ni	≤0.01 ppm
Density at 20° C	1.120 ÷ 1.124	Nitrate	≤2 ppm	Cr	≤0.01 ppm	Pb	≤0.01 ppm
Assay (oxidimetric)	29 ÷ 31 % m/m	Sulphate	≤1 ppm	Cu	≤0.01 ppm	Zn	≤0.02 ppm
Residue on evaporation	≤5 ppm	Al	≤0.1 ppm	Fe	≤0.03 ppm		
Acidity (H2SO4)	≤20 ppm	As	≤0.01 ppm	K	≤0.02 ppm		
Ammonium	≤1 ppm	Ba	≤0.01 ppm	Mg	≤0.02 ppm		

Code	Size	Packaging	Notes
412161	1 l	Plastic bottle	
412162	5 l	Plastic bottle	
412163	25 kg	Drum	

Hydrogen peroxide solution 30% > RS - MOS For electronic use - Stabilized

RS

Description	Clear liquid	Sulphate	≤2 ppm	Cr	≤0.01 ppm	Pb	≤0.02 ppm
Colour (APHA)	≤10	Ag	≤0.02 ppm	Cu	≤0.01 ppm	Pt	≤0.05 ppm
Identification	Positive	Al	≤0.1 ppm	Fe	≤0.1 ppm	Sb	≤0.01 ppm
Density at 18° C	1.120 ÷ 1.124	As	≤0.01 ppm	Ga	≤0.02 ppm	Sn	≤0.25 ppm
Assay (oxidimetric)	29.0 ÷ 31.0 %	Au	≤0.05 ppm	In	≤0.02 ppm	Sr	≤0.02 ppm
Residue on evaporation	≤10 ppm	B	≤0.02 ppm	K	≤0.1 ppm	Ta	≤0.1 ppm
Acidity (H2SO4)	≤20 ppm	Ba	≤0.1 ppm	Li	≤0.01 ppm	Ti	≤0.05 ppm
Ammonium	≤1 ppm	Be	≤0.02 ppm	Mg	≤0.05 ppm	Tl	≤0.05 ppm
Chloride	≤0.5 ppm	Bi	≤0.02 ppm	Mn	≤0.01 ppm	V	≤0.05 ppm
Phosphate	≤1 ppm	Ca	≤0.2 ppm	Mo	≤0.05 ppm	Zn	≤0.05 ppm
Heavy metals (Pb)	≤0.2 ppm	Cd	≤0.01 ppm	Na	≤0.2 ppm	Zr	≤0.05 ppm
Nitrate	≤2 ppm	Co	≤0.01 ppm	Ni	≤0.01 ppm		

Code	Size	Packaging	Notes
412081	1 l	Plastic bottle	

Hydrogen peroxide solution 30% > RS - For agroalimentary analysis

RS

Aspect ..... Conform Assay ..... 29.0 ÷ 31.0 %

Code	Size	Packaging	Notes
502044	5 l	Plastic drum	

Hydrogen peroxide solution 30% > RS - For microanalysis - Stabilized

RS

Description ..... Clear colourless liquid Identification ..... Positive Density at 18° C ..... 1.120 ÷ 1.124

Code	Size	Packaging	Notes
412102	250 ml	Plastic bottle	

Hydrogen peroxide solution 30% > RPE - For analysis - ACS - Reag.Ph.Eur. - Reag.USP - Stabilized

RPE

Description	Clear liquid	Nitrate	≤2 ppm	Ca	≤0.2 ppm	Mn	≤0.01 ppm
Colour (APHA)	≤10	Sulphate	≤2 ppm	Cd	≤0.01 ppm	Na	≤0.5 ppm
Identification	Positive	Phosphate	≤2 ppm	Co	≤0.01 ppm	Ni	≤0.02 ppm
Density at 20° C	1.10 ÷ 1.13	Ammonium	≤5 ppm	Cr	≤0.02 ppm	Pb	≤0.02 ppm
Organic stabilizers	≤500 ppm	Heavy metals (Pb)	≤1 ppm	Cu	≤0.01 ppm	Zn	≤0.1 ppm
Residue on evaporation	≤20 ppm	Al	≤0.5 ppm	Fe	≤0.1 ppm	Assay (oxidimetric)	29.0 ÷ 31.0 % m/m
Acidity	≤0.0006 meq/g	As	≤0.01 ppm	K	≤0.1 ppm		
Chloride	≤0.5 ppm	Ba	≤0.05 ppm	Mg	≤0.1 ppm		

Code	Size	Packaging	Notes
412077	175 ml	Glass bottle	
412071	250 ml	Plastic bottle	
412072	1 l	Plastic bottle	
412074	25 kg	Plastic drum	
412076	200 kg	Plastic drum	

Hydrogen peroxide solution 30% > ERBApharm - According to pharmacopoeia : Ph.Eur. - Stabilized

ERBApharm

Description	Clear colourless liquid	Acidity	Conform Ph.Eur.	Organic stabilizers	≤ 500 ppm	Origin (BSE/TSE)	Synthesis
Identification	Positive	Non volat.substances	≤ 2 g/l	Assay (oxidimetric)	29.0 ÷ 31.0 %	Residual solvents (Current ICH)	Conform

Code	Size	Packaging	Notes
307685	25 kg	Drum	

Hydrogen peroxide solution 3.5% w/v

Perossido di idrogeno soluzione 3.5% m/v • Eau oxygénée solution 3.5% m/v • Hidrógeno peróxido solución 3.5% m/v

H_2O_2 HEU210

Molecular Weight: 34,01

CAS: 7722-84-1

Hydrogen peroxide solution 3.5% w/v > RE - Pure

RE

Description	Clear colourless liquid	Residue on evaporation	≤0.2 %	Heavy metals (Pb)	≤5 ppm
Identification	Positive	Acidity (HCl)	≤360 ppm	As	≤1 ppm
Density at 20° C	~ 1.015	Fixative	≤500 ppm	Assay (oxidimetric)	3.45 ÷ 3.75 % m/v

Code	Size	Packaging	Notes
E307661	1 l	Bottle	

Hydrogen peroxide solution 3%

Perossido di idrogeno soluzione 3% • Eau oxygénée solution 3% • Hidrógeno peróxido solución 3%

H_2O_2
Molecular Weight: 34,01
CAS: 7722-84-1

HEU210

Hydrogen peroxide solution 3% > ERBApharm - According to pharmacopoeia : Ph.Eur.-FU - Stabilized

ERBApharm

Description ..... Clear colourless liquid
Identification ..... Positive
Assay (oxidimetric) .....2.5 ÷ 3.5 %
Acidity .....Conform Ph.Eur.
Non volat.substances .....Conform Ph.Eur.
Organic stabilizers.....Conform Ph.Eur.
Origin (BSE/TSE)..... Synthesis

Code	Size	Packaging	Notes
307671	1 l	Plastic bottle	
307678	50 kg	Plastic tank	

Hydroquinone

Idrochinone • Hydroquinone • Hidroquinona

Synonym:
1,4-Benzenediol
1,4-Dihydroxybenzene

$1,4\text{-}(OH)_2C_6H_4$
Molecular Weight: 110,11
CAS: 123-31-9
EEC-N: 204-617-8

Classification transport
ONU: 2811
Transport Hazard class: 6.1
Packing group III

Danger
H302-H318-H317-H341-H351-H400
P264-P273-P261-P305+P351+P338-P308+P313-P330

Hydroquinone > RPE - For analysis

RPE

Description .....White crystals
Identification ..... Positive
Melting point..... 171 ÷ 174 ° C
Loss on drying ..... ≤1 %
Alkalinity (NH4OH) .....≤17 ppm
Water-insoluble matter .....≤50 ppm
Heavy metals (Pb).....≤5 ppm
Catechol .....≤200 ppm
Residue on ignition.....≤200 ppm
Resorcinol..... ≤0.2 %
Total sulphur .....≤50 ppm
Fe .....≤5 ppm
Assay (oxidimetric) ..... ≥99 %

Code	Size	Packaging	Notes
455325	250 g	Plastic bottle	

Hydroquinone > RE - Pure

RE

Description .....White crystals
Identification (I.R.).....Conform
Melting point.....170 ÷ 175 ° C
Heavy metals (Pb).....≤ 10 ppm
Resorcinol..... ≤ 0.1 %
Fe .....≤ 10 ppm
Assay (oxidimetric) ..... ≥ 99 %

Code	Size	Packaging	Notes
348126	500 g	Plastic bottle	
348128	1 kg	Plastic bottle	
348129	5 kg	Plastic jar	
348124	25 kg	Plastic bucket	

Hydroxybenzene ▶ Phenol

2-Hydroxybenzoic acid ▶ Salicylic acid

Hydroxylamine solution, alcoholic

Idrossilammina soluzione, alcolico • Hydroxylamine solution alcoolique • Hidroxilamina solución, alcohólico

Classification transport
ONU: 2733
Transport Hazard class: 3
Packing group II

Danger
H225-H314-H318
P210-P241-P264-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

Hydroxylamine solution, alcoholic > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611044301	100 ml	Glass bottle	Ref Ph.Eur 1044301

Hydroxylamine sulphate

Idrossilammina solfato • Hydroxylamine sulfate • Hidroxilamonio sulfato

Synonym: *Hydroxylammonium sulfate*

$(NH_2OH)_2.H_2SO_4$
Molecular Weight: 164,14
CAS: 10039-54-0
EEC-N: 233-118-8

Classification transport
ONU: 2865
Transport Hazard class: 8
Packing group III

Warning
H290-H302-H312-H315-H319-H317-H351-H373-H400
P264-P273-P305+P351+P338-P308+P313-P314-P330

Hydroxylamine sulphate > RPE - For analysis

RPE

Description ..... White crystals
Identification ..... Positive
Ammonium ..... ≤0.1 %
Chloride ..... ≤10 ppm
Water-insoluble matter ..... ≤50 ppm
Heavy metals (Pb) ..... ≤10 ppm
Residue on ignition ..... ≤200 ppm
As ..... ≤5 ppm
Fe ..... ≤5 ppm
Assay (oxidimetric) ..... ≥99 %

Code	Size	Packaging	Notes
455525	250 g	Plastic bottle	
455527	1 kg	Plastic bottle	
455523	25 kg	Plastic bucket	

4-Hydroxy-4-methyl-2-pentanone ▶ Diacetone alcohol

1-Hydroxynaphthalene ▶ 1-Naphthol

2-Hydroxynaphthalene ▶ 2-Naphthol

8-Hydroxyquinoline

8-Ossichinolina • 8-Hydroxyquinoléine • 8-Oxiquinoleína

$HOC_6H_3N:CHCH:CH$
Molecular Weight: 145,16
CAS: 148-24-3
EEC-N: 205-711-1

Classification transport
ONU: 2811
Transport Hazard class: 6.1
Packing group II

Warning
H302-H312-H332-H315-H319-H341-H335
P264-P271-P304+P340-P305+P351+P338-P308+P313-P330

8-Hydroxyquinoline > RPE - For analysis

RPE

Description ..... Whitish powder
Identification ..... Positive
Suitab.for Mg determ. ..... Conform
Melting point ..... 72.5 ÷ 74.0 °C
Alcohol-insolub. matter ..... ≤500 ppm
Residue on ignition ..... ≤500 ppm
Sulphate ..... ≤200 ppm

Code	Size	Packaging	Notes
467353	50 g	Glass bottle	
467355	250 g	Plastic bottle	

3-Hydroxytoluene ▶ m-Cresol

Hypophosphorous acid 50%

Acido ipofosforoso 50% • Acide hypophosphoreux 50% • Acido hipofosforoso 50%

H_3PO_2
Molecular Weight: 66,04
CAS: 6303-21-5
EEC-N: 228-601-5

Classification transport
ONU: 3264
Transport Hazard class: 8
Packing group III

Danger
H314
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Hypophosphorous acid 50% > RPE - For analysis

RPE

Description ..... Yellow colourless liquid
Arsenic (As) ..... ≤ 0.05 mg/Kg
Ca ..... ≤ 30 ppm
Fe ..... ≤50 ppm
Lead (Pb) ..... ≤ 0.5 mg/Kg
Chloride (Cl-) ..... ≤ 200 mg/Kg
Sulphate (SO4--) ..... ≤ 500 mg/Kg
Assay (acidimetric) ..... ≥49.5 %
Density at 20° C ..... ~ 1.22

Code	Size	Packaging	Notes
406961	100 ml	Glass bottle	
406962	1 l	Glass bottle	
406964	30 kg	Plastic drum	

Idrimeter Erba Solution A
Idrimeter Erba Soluzione A • Idrimeter Erba Solution A • Idrimeter Erba Solución A

Idrimeter Erba Solution A > RPE - For analysis
RPE

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
E455256	500 ml	Bottle	
E455257	1 l	Bottle	

For water hardness. Titrant 1 ml = 1 mg CaCO3

Idrimeter Erba Solution B
Idrimeter Erba Soluzione B • Idrimeter Erba Solution B • Idrimeter Erba Solución B

Warning
H315-H319
P264-P280-P305+P351+P338-P332+P313-P337+P313-P302+P352a

Idrimeter Erba Solution B > RPE - For analysis
RPE

Description ..... Clear colourless liquid Identification ..... Positive pH at 20° C ..... 9.8 ÷ 10.2

Code	Size	Packaging	Notes
E455266	500 ml	Bottle	
E455267	1 l	Bottle	

For water hardness. Buffer pH 10

Idrimeter Erba Indicator C
Idrimeter Erba Indicatore C • Idrimeter Erba Indicateur C • Idrimeter Erba Indicador C

Idrimeter Erba Indicator C > RPE - For analysis
RPE

Description .....Violet granular powder Identification ..... Positive

Code	Size	Packaging	Notes
E455271	10 g	Bottle	
E455274	100 g	Bottle	

For water hardness. Indicator

Imidazole
Imidazolo • Imidazole • Imidazol

Synonym:
1,3-Diaza-2,4-cyclopentadiene
Glyoxaline

$C_3H_4N_2$
Molecular Weight: 68,08
CAS: 288-32-4
EEC-N: 206-019-2

Classification transport
ONU: 2923
Transport Hazard class: 8
Packing group II

Danger
H302-H314-H360D-HA26
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Imidazole > RS - For microanalysis
RS

Description ..... White crystals C.....≥52.93 % N.....≥41.15 %
Identification ..... Positive H.....≥5.92 %

Code	Size	Packaging	Notes
445551	2 g	Glass bottle	
445552	25 g	Glass bottle	

Immersion oil
Olio d'immersione • Huile pour immersion • Aceite de inmersión

Classification transport
ONU: 3082
Transport Hazard class: 9
Packing group III

Warning
H302-H411
P264-P273-P270-P330-P301+P312a-P391

Immersion oil > RS - For microscopy
RS

Description ..... Clear liquid Identification ..... Positive Density at 20° C .....≥1.0

Code	Size	Packaging	Notes
466782	100 ml	Glass bottle	
466783	1 l	Glass bottle	

contains benzylbenzoate

Indicator for ammoniacal nitrogen solution
Indicatore per azoto ammoniacale soluzione • Indicateur pour l'azote ammoniacal • Indicador para nitrógeno amoniacal solución

Classification transport
ONU: 1170
Transport Hazard class: 3
Packing group III

Warning
H226-H319
P210-P241-P264-P303+P361+P353-P305+P351+P338-P403+P235

Indicator for ammoniacal nitrogen solution > RPE - For analysis
RPE

Description .....Dark green liquid Identification ..... Positive pH range ..... 4.4 - 6.0

Code	Size	Packaging	Notes
E455651	250 ml	Glass bottle	

Acid-base indicator (pH 4.4÷6.0)

Indicator for iodometry
Indicatore per iodometria • Indicateur pour iodométrie • Indicador para iodometría

EEC-N: 232-679-6

Indicator for iodometry > RPE - For analysis
RPE

Description ..... White powder Identification ..... Positive

Code	Size	Packaging	Notes
455622	25 g	Glass bottle	
455621	250 g	Plastic bottle	

Indicator papers
Cartine indicatrici di pH • Papier indicateur de pH • Papel indicador de pH

Indicator papers > RS - For pHmetry
RS

Code	Size	Packaging	Notes
435421000	1 roll	Box	Monochromatic scale. pH range 0.5 - 5.5. Sensitivity 0.5 pH
435431000	1 roll	Box	Monochromatic scale. pH range 4.0 - 7.0. Sensitivity 0.3 pH
435441000	1 roll	Box	Monochromatic scale. pH range 6.4 - 8.0. Sensitivity 0.2 pH
435451000	1 roll	Box	Monochromatic scale. pH range 7.2 - 9.7. Sensitivity 0.3 pH
435461000	1 roll	Box	Monochromatic scale. pH range 8.0 - 10.0. Sensitivity 0.2/0.3 pH
435471000	1 roll	Box	Monochromatic scale. pH range 9.0 - 13.0. Sensitivity 0.5 pH
435511000	1 roll	Box	Monochromatic scale. pH range 5.5 - 9.0. Sensitivity 0.5 pH
435131000	1 roll	Dispenser	Trichromic scale, pH range 1.0 - 11.0, Sensitivity 1,0 pH
435140000	1 roll	Dispenser	Monochromatic scale, pH range 1.0 - 11.0, Sensitivity 1,0 pH
435150000	1 roll	Dispenser	Monochromatic scale, pH range 1.0 - 14.0, Sensitivity 1,0/2,0 pH
435161000	1 roll	Dispenser	Monochromatic scale, pH range 3.8 - 5.8, Sensitivity 0.2/0.3 pH
435171000	1 roll	Dispenser	Monochromatic scale, pH range 5.4 - 7.0, Sensitivity 0.2/0.3 pH

Indicator papers > RS - High sensitivity-Integrated chromatic scale

RS

Code	Size	Packaging	Notes
435493000	100 stripes	Tube	pH range 1.0 - 2.8. Sensitivity 0.2/0.3
435494000	100 stripes	Tube	pH range 1.8 - 3.8. Sensitivity 0.2/0.3
435495000	100 stripes	Tube	pH range 2.8 - 4.6. Sensitivity 0.2/0.3
435496000	100 stripes	Tube	pH range 3.8 - 5.5. Sensitivity 0.2/0.3
435497000	100 stripes	Tube	pH range 5.2 - 6.8. Sensitivity 0.2/0.3
435498000	100 stripes	Tube	pH range 6.0 - 8.1. Sensitivity 0.2/0.3
435501000	100 stripes	Tube	pH range 7.2 - 8.8. Sensitivity 0.2/0.3
435502000	100 stripes	Tube	pH range 8.0 - 9.7. Sensitivity 0.2/0.3
435491000	200 stripes	Tube	pH range 1.0 - 12.0. Sensitivity 1.0

Strip 11 x 100 mm

Indicator papers > RS - Indelibles-with colour scale

RS

Code	Size	Packaging	Notes
435121000	100 stripes	Tube	pH range 0.0 - 14.0, Sensitivity 1.0
435642000	100 stripes	Tube	pH range 0.0 - 6.0. Sensitivity 0.5
435643000	100 stripes	Tube	pH range 2.0 - 9.0. Sensitivity 0.5
435644000	100 stripes	Tube	pH range 4.5 - 10.0. Sensitivity 0.5
435645000	100 stripes	Tube	pH range 7.0 - 14.0. Sensitivity 0.3/0.4
435646000	100 stripes	Tube	pH range 0.3 - 2.3. Sensitivity 0.3

Strip 6 x 85 mm

Indicator universal pH 0-5 hydroalcoholic solution

Indicatore universale pH 0-5 soluzione idroalcolica • Indicateur universel pH 0-5 solution hydroalcoolique • Indicador universal pH 0-5 solución hidroalcohólica

Classification transport
ONU: 1170
Transport Hazard class: 3
Packing group II

Danger
H225-H319
P210-P241-P264-P303+P361+P353-P305+P351+P338-P403+P235

Indicator universal pH 0-5 hydroalcoholic solution > RPE - For analysis

RPE

Description .....Dark green liquid Identification ..... Positive Functionality ..... Conform

Code	Size	Packaging	Notes
E455661	25 ml	Glass bottle	
E455662	500 ml	Glass bottle	

With chromatic scale

Indicator universal pH 1-11 hydroalcoholic solution

Indicatore universale pH 1-11 soluzione idroalcolica • Indicateur universel pH 1-11 solution hydroalcoolique • Indicador universal pH 1-11 solución hidroalcohólica

Warning
H319
P264-P280-P305+P351+P338-P337+P313

Indicator universal pH 1-11 hydroalcoholic solution > RPE - For analysis

RPE

Description .....Dark green liquid Identification ..... Positive Functionality ..... Conform

Code	Size	Packaging	Notes
E455702	25 ml	Glass bottle	
E455706	500 ml	Plastic bottle	

With chromatic scale

Indicator universal pH 1-11 water solution

Indicatore universale pH 1-11 soluzione in acqua • Indicateur universel pH 1-11 solution aqueuse • Indicador universal pH 1-11 solución en agua

Indicator universal pH 1-11 water solution > RPE - For analysis

RPE

Description ..... Dark green liquid Identification ..... Positive Functionality ..... Conform

Code	Size	Packaging	Notes
E455711	25 ml	Glass bottle	
E455712	500 ml	Glass bottle	

With chromatic scale

Indicator universal pH 9-13 hydroalcoholic solution

Indicatore universale pH 9-13 soluzione idroalcolica • Indicateur universel pH 9-13 solution hydroalcoolique • Indicador universal pH 1-11 solución en agua

Classification transport
ONU: 1170
Transport Hazard class: 3
Packing group II

Danger
H225-H319
P210-P241-P264-P303+P361+P353-
P305+P351+P338-P403+P235

Indicator universal pH 9-13 hydroalcoholic solution > RPE - For analysis

RPE

Description ..... Liquido giallo Identification ..... Positive Functionality ..... Conform

Code	Size	Packaging	Notes
E455641	25 ml	Glass bottle	
E455642	500 ml	Glass bottle	

With chromatic scale

Indigo carmine dried

Carminio indaco secco • Carmin d'indigo sec • Indigo Carmin seco

Synonym:
Acid Blue 74

$C_{16}H_8N_2Na_2O_8S_2$
Molecular Weight: 466,36
CAS: 860-22-0
EEC-N: 212-728-8

Indigo carmine dried > RPE - For analysis - C.I. 73015

RPE

Description ..... Polvere blu viola Identification ..... Positive Colour change..... (blue - yellow) Assay ..... ≥ 85 %

Code	Size	Packaging	Notes
434932	25 g	Glass bottle	

Dye for microscopy (bacteriology histology). Indicator acid - base (pH 11.6 ÷ 14)

Indigo carmine solution

Carminio indaco soluzione • Carmin d'indigo solution • Indigo carmín solución

Synonym:
Acid Blue 74

$C_{16}H_8N_2Na_2O_8S_2$
Molecular Weight: 466,36
CAS: 860-22-0

Classification transport
ONU: 3264

Indigo carmine solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611045601	1 l	Plastic bottle	Ref Ph.Eur 1045601

Indium standard solution

Indio standard soluzione • Indium solution standard • Indio, solución patrón

Classification transport
ONU: 3264
Transport Hazard class: 8
Packing group III

Indium standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505662	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505665	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid
505663	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Indium standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
503651	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503655	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
503653	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503657	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Indium standard solution > RS - Standard solution for AAS

RS

Code	Size	Packaging	Notes
507743	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid and hydrofluoric acid
507508	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Indole

Indolo • Indole • Indol

Synonym:
1H-Benzo[b]pyrrole

$C_6H_4NHCH{:}CH$
Molecular Weight: 117,15
CAS: 120-72-9
EEC-N: 204-420-7

Classification transport
ONU: 2811
Packing group III

Danger
H302-H311
P264-P280h-P270-P330-P301+P312a-P302+P352a

Indole > RPE - For analysis

RPE

Description	White powder or flakes	Total chlorine	≤20 ppm	Total sulphur	≤40 ppm
Identification	Positive	Heavy metals (Pb)	≤10 ppm	Fe	≤10 ppm
Melting point	51.5 ÷ 53.5 ° C	Residue on ignition	≤0.1 %	Assay (spectrophotom.)	≥99 %

Code	Size	Packaging	Notes
455801	10 g	Glass bottle	
455802	100 g	Glass bottle	

Inositol

Inositolo • Inositol • Inositol

Synonym:
1,2,3,4,5,6-Hexahydroxycyclohexane

$CHOH(CHOH)_4CHOH$
Molecular Weight: 180,16
CAS: 87-89-8
EEC-N: 201-781-2

Inositol > RPE - For analysis

RPE

Description ..... White crystalline powder
Identification ..... Positive
Albumin ..... Conform
Dextrine ..... Conform
Melting point ..... 221.6 ÷ 226.4 ° C
pH sol. 5% at 25° C ..... 5.0 ÷ 7.0
Loss on drying ..... ≤0.2 %
Chloride ..... ≤50 ppm
Phosphate ..... ≤10 ppm
Heavy metals (Pb) ..... ≤25 ppm
Residue on ignition ..... ≤0.1 %
Sulphate ..... ≤50 ppm
Red.ing sugars(Glucose) ..... ≤0.1 %
Ba ..... ≤150 ppm
Ca ..... ≤50 ppm
Fe ..... ≤5 ppm
Assay (gravimetric) ..... ≥99 %

Code	Size	Packaging	Notes
455853	50 g	Glass bottle	

Inositol > RE - Pure

RE

Description ..... White powder
Identification ..... Positive
Loss on drying ..... ≤0.2 %
Sulphated ash ..... ≤0.1 %
Chloride ..... ≤100 ppm
Heavy metals (Pb) ..... ≤40 ppm
Sulphate ..... ≤150 ppm
Fe ..... ≤10 ppm

Code	Size	Packaging	Notes
348354	100 g	Plastic bottle	

Inulin

Inulina • Inuline • Inulina

$(C_6H_{10}O_5)n$
CAS: 9005-80-5
EEC-N: 232-684-3

Inulin > RPE - For analysis

RPE

Description ..... White crystalline powder
Identification ..... Positive
Specific optical rotation on dry -32 ÷ -40 °
(c= 2 in water)
Loss on drying ..... ≤10 %
Residue on ignition ..... ≤0.1 %
Chloride ..... ≤50 ppm
Sulphate ..... ≤50 ppm
Heavy metals (Pb) ..... ≤10 ppm
Fe ..... ≤10 ppm

Code	Size	Packaging	Notes
455901	10 g	Glass bottle	
455902	25 g	Glass bottle	
455903	100 g	Glass bottle	

Iodic anhydride ▶ Iodopentoxide

Iodide standard solution

Ioduri standard soluzione • Iodure solution standard • Yoduro, solución patrón

Iodide standard solution > RS - Standard solution for ion chromatography

RS

Code	Size	Packaging	Notes
503261	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503263	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Iodine resublimed
Iodio bisublimato • Iode bisublimé • Yodo bisublimado

I_2
Molecular Weight: 253,8
CAS: 7553-56-2
EEC-N: 231-442-4

Classification transport
ONU: 3495
Transport Hazard class: 8
Packing group III

Danger
H302-H312-H332-H315-H319-H335-H372-H400
P264-P273-P271-P304+P340-
P305+P351+P338-P314

Iodine resublimed > RPE - For analysis
RPE

Description ..... Grey-violet crystals
Identification ..... Positive
Residue on evaporation ..... ≤100 ppm
Chlorine-Bromine ..... ≤100 ppm
Assay (oxidimetric) ..... ≥99.8 %

Code	Size	Packaging	Notes
455959	100 g	Glass bottle	
455955	250 g	Glass bottle	
455957	1 kg	Glass bottle	
455954	25 kg	Metal drum	

Iodine
Iodio • Iode • Yodo

I_2
Molecular Weight: 253,8
CAS: 7553-56-2
EEC-N: 231-442-4

Classification transport
ONU: 3495
Transport Hazard class: 8
Packing group III

Danger
H302-H312-H332-H315-H319-H335-H372-H400
P264-P273-P271-P304+P340-
P305+P351+P338-P314

Iodine > ERBApharm - According to pharmacopoeia : Ph.Eur.-USP-FU-Ph.Franc.-BP-DAB
ERBApharm

Description ..... Grey-violet crystals
Identification ..... Positive
Chloride + bromide (Cl) ..... ≤ 0.025 %
Residue on ignition ..... ≤ 0.05 %
Assay (iodometric) ..... 99.8 ÷ 100.5 %

Code	Size	Packaging	Notes
348454	100 g	Glass bottle	
348455	250 g	Glass bottle	
348457	1 kg	Glass bottle	
348451	5 kg	Metal bucket	
348452	20 kg	Metal drum	

Iodine 0.5 mol/l (1N)
Iodio 0.5 mol/l (1N) • Iode 0.5 mol/l (1N) • Yodo 0.5 mol/l (1N)

I_2
Molecular Weight: 253,8
CAS: 7553-56-2

Classification transport
ONU: 1760
Transport Hazard class: 8
Packing group III

Danger
H315-H319-H372
P264-P280-P305+P351+P338-P314-P332+P313-
P337+P313

Iodine 0.5 mol/l (1N) > RS - For analysis according to Ph. Eur. Chap. 4.2.2
RS

Code	Size	Packaging	Notes
613009400	1 l	Glass bottle	Ref Ph.Eur 3009400

Storage: protected from light

Iodine 0.5 mol/l (1N) > RPE - For analysis
RPE

Description ..... Brown red liquid
Assay (potentiometry) ..... 0.99 - 1.01 N
NIST 136 ..... e

Code	Size	Packaging	Notes
456135000	500 ml	Glass bottle	
456137000	1 l	Glass bottle	

126.9 g of I2. Volumetric solution ready-to-use : 1N. Traceable to NIST

Iodine 0.05 mol/l (0.1N)

Iodio 0.05 mol/l (0.1N) • Iode 0.05 mol/l (0.1N) • Yodo 0.05 mol/l (0.1N)

I_2
Molecular Weight: 253,8
CAS: 7553-56-2

Warning
H373
P260-P314-P501a

Iodine 0.05 mol/l (0.1N) > RS - For analysis according to Ph. Eur. Chap. 4.2.2 — RS

Code	Size	Packaging	Notes
613002700	1 l	Glass bottle	Ref Ph.Eur 3002700

Storage: protected from light

Iodine 0.05 mol/l (0.1N) > RPE - For analysis — RPE

Description ..... Brown red liquid Assay (potentiometry) ..... 0.0998 - 0.1002 N NIST 136 ..... e

Code	Size	Packaging	Notes
456036000	500 ml	Glass bottle	
456037000	1 l	Glass bottle	

12.69 g of I2. Volumetric solution ready-to-use : 0.1N

Iodine 0.05 mol/l (0.1N) > RPE - NORMEX - For analysis — RPE

Description ..... Brown red liquid Identification ..... Positive Titration factor ..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
456051		Glass ampoule	Volume : 60 ml

12,69 g of I2. Volumetric concentrated solution to prepare 1 L of solution 0,1 N

Iodine 0.01 mol/l (0.02N)

Iodio 0.01 mol/l (0.02N) • Iode 0.01 mol/l (0.02N) • Yodo 0.01 mol/l (0.02N)

I_2
Molecular Weight: 253,8
CAS: 7553-56-2

Classification transport
ONU: 1760
Transport Hazard class: 8
Packing group III

Danger
H315-H319-H372
P264-P280-P305+P351+P338-P314-P332+P313-P337+P313

Iodine 0.01 mol/l (0.02N) > RS - For analysis according to Ph. Eur. Chap. 4.2.2 — RS

Code	Size	Packaging	Notes
613002900	1 l	Glass bottle	Ref Ph.Eur 3002900

Storage: protected from light

Iodine 0.005 mol/l (0.01N)

Iodio 0.005 mol/l (0.01N) • Iode 0.005 mol/l (0.01N) • Yodo 0.005 mol/l (0.01N)

I_2
Molecular Weight: 253,8
CAS: 7553-56-2

Warning
H373
P260-P314-P501a

Iodine 0.005 mol/l (0.01N) > RPE - NORMEX - For analysis — RPE

Description ..... Brown clear liquid Identification ..... Positive Titration factor ..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
456121		Glass ampoule	Volume : 60 ml

1,269 g of I2. Volumetric concentrated solution to prepare 1 L of solution 0,01 N

Iodine 10 ppm

Iodio 10 ppm • Iode 10 ppm • Yodo 10 ppm

Iodine 10 ppm > RS - For analysis according to Ph. Eur. Chap. 4.1.2 — RS

Code	Size	Packaging	Notes
615003809	100 ml	Glass bottle	Concentrated solution : to dilute according to Ref Ph.Eur 5003800

Iodine bromide solution
Iodo bromuro soluzione • Iode bromure solution • Yodo bromuro solución

Classification transport
ONU: 2734
Transport Hazard class: 8
Packing group II

Danger
H226-H314
P210-P241-P264-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

Iodine bromide solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1 — RS

Code	Size	Packaging	Notes
611045901	1 l	Glass bottle	Ref Ph.Eur 1045901

Storage: protected from light

Iodopentoxide
Anidride iodica • Anhydride iodique • Anhídrido iódico

Synonym: *Iodic anhydride*

I_2O_5
Molecular Weight: 333,81
CAS: 12029-98-0
EEC-N: 234-740-2

Classification transport
ONU: 1479
Transport Hazard class: 5.1
Packing group III

Danger
H272
P221-P210a-P280a-P220-P370+P378a-P501a

Iodopentoxide > RPE - For analysis — RPE

Description ..... Pale cream powder
Identification ..... Positive
Melting point ..... ≥ 350 °C
Assay (oxidimetric) ..... ≥ 97.9 %

Code	Size	Packaging	Notes
421904	100 g	Glass bottle	

Iodoform
Iodoformio • Iodoforme • Yodoformo

Synonym: *Triiodomethane*

CHI_3
Molecular Weight: 393,73
CAS: 75-47-8
EEC-N: 200-874-5

Warning
H302-H312-H332
P264-P271-P261-P280h-P304+P340-P330

Iodoform > RE - Pure — RE

Description ..... Yellow crystalline powder
Identification ..... Positive
Loss on drying ..... ≤ 1.0 %
Sulphated ash ..... ≤ 0.2 %
Assay (argentimetric) ..... ≥ 99.0 %
Appearance of solution ..... Conform
Acidity or alkalinity ..... Conform
Chloride ..... ≤ 50 ppm

Code	Size	Packaging	Notes
348554	100 g	Glass bottle	
348557	1 kg	Glass bottle	
348558	25 kg	Drum	

Iodomethane ▶ Methyl iodide

Iodoplatinate reagent
Reattivo iodoplatinato • Réactif à l'iodoplatinate • Yodoplatinato reactivo

Iodoplatinate reagent > RS - For analysis according to Ph. Eur. Chap. 4.1.1 — RS

Code	Size	Packaging	Notes
611046309	200 ml	Glass bottle	Ref Ph.Eur 1046300
611046300	1 l	Glass bottle	Ref Ph.Eur 1046300

Storage: protected from light

Iridium standard solution

Iridio standard soluzione • Iridium solution standard • Iridio, solución patrón

Classification transport
ONU: 1760
Transport Hazard class: 8
Packing group III

Warning
H315-H319
P264-P280-P305+P351+P338-P332+P313-P337+P313-P302+P352a

Iridium standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505672	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505675	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Iron standard solution

Ferro standard soluzione • Fer solution standard • Hierro, solución patrón

Classification transport
ONU: 3264
Transport Hazard class: 8
Packing group III

Danger
H314
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Iron standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2

RS

Code	Size	Packaging	Notes
615001601	100 ml	Plastic bottle	A 10 ppm solution : to dilute according to Ref Ph.Eur 5001601
615001602	100 ml	Plastic bottle	A 8 ppm solution : to dilute according to Ref Ph.Eur 5001602
615001603	100 ml	Plastic bottle	A 2 ppm solution : to dilute according to Ref Ph.Eur 5001603
615001605	100 ml	Plastic bottle	A 0.1 % solution Ref Ph.Eur 5001605
615001606	100 ml	Plastic bottle	A 250 ppm solution : to dilute according to Ref Ph.Eur 5001606
615001609	100 ml	Plastic bottle	A 20 ppm solution : to dilute according to Ref Ph.Eur 5001600

Iron standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505612	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505615	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid
505613	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Iron standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
503581	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503585	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
503583	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503587	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Iron standard solution > RS - Standard solution for AAS

RS

Description ..... Yellow clear liquid Identification ..... Positive Titration factor..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
E497515	100 ml	Glass bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
504194	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
507393	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
E497511	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Iron standard solution > RS - NORMEX - Concentrated solution for AAS

RS

Description ..... Yellow clear liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
451311		Plastic vial	conc. 1.000 ppm Matrix : Nitric acid - Volume : 50 ml

Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package

Iron, powder

Ferro, polvere • Fer, poudre • Hierro, polvo

Fe
Molecular Weight: 55,85
CAS: 7439-89-6
EEC-N: 231-096-4

Classification transport
ONU: 3089
Transport Hazard class: 4.1
Packing group III

Warning
H228
P210-P241-P280-P240-P370+P378a

Iron, powder > RPE - For analysis

RPE

Description ..... Grey powder Identification ..... Positive Assay ..... ≥97 %

Code	Size	Packaging	Notes
451377	1 kg	Plastic bottle	
451373	25 kg	Plastic bucket	

Iron, reduced by hydrogen

Ferro, ridotto dall'idrogeno • Fer, réduit par l'hydrogène • Hierro, reducido para el hidrógeno

Fe
Molecular Weight: 55,85
CAS: 7439-89-6
EEC-N: 231-096-4

Classification transport
ONU: 3089
Transport Hazard class: 4.1
Packing group III

Warning
H228
P210-P241-P280-P240-P370+P378a

Iron, reduced by hydrogen > RPE - For analysis

RPE

Description ..... Grey powder Ferric ion ..... Conform H2SO4-insoluble matter ..... ≤0.5 % Assay ..... ≥95 %
Identification ..... Positive Nitrogen compounds (N) ..... ≤50 ppn Water solubility..... ≤0.1 %

Code	Size	Packaging	Notes
451395	250 g	Glass bottle	
451397	1 kg	Plastic bottle	

Iron (III) ammonium citrate green

Ferro ammonio citrato verde • Fer ammonium citrate vert • Hierro y amonio citrato verde

Synonym:
Ammonium iron(III) citrate
Ammonium ferric citrate

$FeNH_4(C_6H_5O_7)$
Molecular Weight: 482,19
CAS: 1185-57-5
EEC-N: 214-686-6

Warning
H315-H319-H335
P264-P271-P304+P340-P305+P351+P338-P312a-P332+P313

Iron (III) ammonium citrate green > RE - Pure

RE

Description ..... Green-yellowish crystalline powder
Identification ..... Positive
Sulphate ..... ≤ 0.5 %
As ..... ≤ 4 ppm
Assay (oxidimetric) ..... 14.0 ÷ 16.0 % Fe

Code	Size	Packaging	Notes
343605	250 g	Plastic bottle	
343607	1 kg	Plastic bottle	
343606	5 kg	Plastic jar	

Iron (III) ammonium citrate red

Ferro ammonio citrato rosso • Fer ammonium citrate rouge • Hierro y amonio citrato rojo

Synonym:
Ammonium iron(III) citrate
Ammonium ferric citrate

$FeNH_4(C_6H_5O_7)$
Molecular Weight: 482,19
CAS: 1185-57-5
EEC-N: 214-686-6

Warning
H315-H319-H335
P264-P271-P304+P340-P305+P351+P338-P312a-P332+P313

Iron (III) ammonium citrate red > RE - Pure

RE

Description ..... Red-brown powder
Identification ..... Positive
Sulphate ..... ≤ 0.6 %
As ..... ≤ 5 ppm
Assay (oxidimetric) ..... 20 ÷ 23 % Fe

Code	Size	Packaging	Notes
343441	250 g	Plastic bottle	
343442	1 kg	Plastic bottle	
343443	5 kg	Plastic jar	

Iron (III) ammonium sulfate dodecahydrate

Ferro ammonio solfato ico dodecaidrato • Fer (III) ammonium sulfate dodécahydraté • Hierro (III) amonio sulfato dodecahidrato

Synonym:
Ammonium iron(III) sulfate dodecahydrate
Ammonium ferric sulfate dodecahydrate

$FeNH_4(SO_4)_2.12H_2O$
Molecular Weight: 482,19
CAS: 7783-83-7
EEC-N: 233-382-4

Warning
H315-H319
P264-P280g-P280i-P305+P351+P338-P332+P313-P337+P313

Iron (III) ammonium sulfate dodecahydrate > RPE - For analysis

RPE

Description Purple semitransparent crystals
Identification ..... Positive
pH sol. 5% at 25° C ..... 1.75 ÷ 2.75
Chloride ..... ≤3 ppm
Phosphate ..... ≤20 ppm
Diluted HCl-ins. matter ..... ≤50 ppm
Nitrate ..... ≤50 ppm
Subst. not ppt NH4OH ..... ≤0.1 %
As ..... ≤2 ppm
Ca ..... ≤10 ppm
Cr ..... ≤100 ppm
Cu ..... ≤10 ppm
K ..... ≤300 ppm
Mg ..... ≤50 ppm
Mn ..... ≤100 ppm
Na ..... ≤150 ppm
Ni ..... ≤20 ppm
Pb ..... ≤30 ppm
Zn ..... ≤20 ppm
Assay (oxidimetric) ..... ≥98 %

Code	Size	Packaging	Notes
451503	100 g	Plastic bottle	
451505	500 g	Plastic bottle	
451507	1 kg	Plastic bottle	
451502	25 kg	Plastic bucket	
451504	50 kg	Plastic bucket	

Iron (III) ammonium sulfate dodecahydrate > RE - Pure

RE

Description Cristalli semitrasparenti violacei
Identification ..... Positive
Assay (oxidimetric) ..... ≥ 98.0 %
Chloride ..... ≤ 0.05 %
Subst. not ppt NH4OH ..... ≤ 0.1 %
Cu ..... ≤ 20 ppm
Zn ..... ≤ 50 ppm

Code	Size	Packaging	Notes
344107	1 kg	Plastic bottle	
344108	5 kg	Plastic jar	

Iron (II) ammonium sulfate hexahydrate

Ferro ammonio solfato oso esaidrato • Fer(II) ammonium sulfate hexahydraté • Hierro (II) amonio sulfato hexahidratado

Synonym:
Ammonium iron(II) sulfate hexahydrate
Mohr's salt

$Fe(NH_4)_2(SO_4)_2.6H_2O$
Molecular Weight: 392,14
CAS: 7783-85-9
EEC-N: 233-151-8

Warning
H315-H319-H335
P264-P271-P304+P340-P305+P351+P338-P312a-P332+P313

Iron (II) ammonium sulfate hexahydrate > RPE - For analysis - ACS

RPE

Description ..... Green - azure crystals
Identification ..... Positive
Phosphate ..... ≤ 30 ppm
Ca ..... ≤ 50 ppm
Ferric salt ..... ≤ 100 ppm
Cu ..... ≤ 30 ppm
Mn ..... ≤ 100 ppm
Zn ..... ≤ 30 ppm
Assay (oxidimetric) ..... 98.5 ÷ 101.5 %
Water-insoluble matter ..... ≤ 100 ppm
Mg ..... ≤ 20 ppm
K ..... ≤ 20 ppm
Na ..... ≤ 0.02 %

Code	Size	Packaging	Notes
451453	100 g	Plastic bottle	
451451	500 g	Plastic bottle	
451457	1 kg	Plastic bottle	
451452	25 kg	Plastic bucket	

Iron (II) ammonium sulfate hexahydrate > RE - Pure

RE

Description ..... Green - azure crystals
Identification ..... Positive
Ferric ion ..... ≤ 0.01 %
Assay (oxidimetric) ..... ≥ 98 %

Code	Size	Packaging	Notes
344007	1 kg	Plastic bottle	
344008	5 kg	Plastic jar	
344003	25 kg	Plastic bucket	

Iron (III) ammonium sulfate solution 33% in nitric acid

Ferro ammonio solfato ico soluzione 33% in acido nitrico • Fer (III) ammonium sulfate 33% dans l'acide nitrique • Hierro (III) amonio sulfato solución 33% en acido nítrico

Classification transport
ONU: 2031
Transport Hazard class: 8
Packing group II

Danger
H314-H318
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Iron (III) ammonium sulfate solution 33% in nitric acid > RPE - For analysis

RPE

Description ..... Yellow - brown liquid
Identification ..... Positive
Assay ..... 32 ÷ 34 %

Code	Size	Packaging	Notes
E451521	500 ml	Glass bottle	

Iron (III) ammonium sulfate 0.1 mol/l

Ferro ammonio solfato ico 0.1 mol/l • Fer (III) ammonium sulfate 0.1 mol/l • Hierro (III) amonio sulfato 0.1 mol/l

Iron (III) ammonium sulfate 0.1 mol/l > RS - For analysis according to Ph. Eur. Chap. 4.2.2

RS

Code	Size	Packaging	Notes
613001300	1 l	Plastic bottle	Ref Ph.Eur 3001300

Iron (III) ammonium sulfate solution 100 g/l

Ferro ammonio solfato ico soluzione 100 g/l • Fer (III) ammonium sulfate 100 g/l • Hierro (III) amonio sulfato solución 100 g/l

Warning
H315-H319
P264-P280-P305+P351+P338-P332+P313-P337+P313-P302+P352a

Iron (III) ammonium sulfate solution 100 g/l > RS - For analysis according to Ph. Eur. Chap. 4.1.1 — RS

Code	Size	Packaging	Notes
611037703	100 ml	Plastic bottle	Ferric ammonium sulfate solution R2 Ref Ph.Eur 1037702
611037702	1 l	Plastic bottle	Ferric ammonium sulfate solution R2 Ref Ph.Eur 1037702

Iron (II) ammonium sulfate 0.12N

Ammonio ferrosolfato (II) 0.12N • Fer (II) ammonium sulfate 0.12N • Amonio Hierro II sulfato 0.12N

$(NH_4)_2Fe(SO_4)_2.6H_2O$
Molecular Weight: 392,14
CAS: 7783-85-9

HEU210

Iron (II) ammonium sulfate 0.12N > RS - For environmental analysis (COD determination) — RS

Code	Size	Packaging	Notes
526761	1 l	Bottle	

Iron (II) ammonium sulfate 0.1N

Ferro ammonio solfato oso 0.1N • Fer(II) ammonium sulfate 0.1N • Amonio hierro II sulfato 0.1 N

Synonym:
Ammonium iron(II) sulfate hexahydrate
Mohr's salt

$Fe(NH_4)_2(SO_4)_2.6H_2O$
Molecular Weight: 392,14
CAS: 7783-85-9

Classification transport
ONU: 2796
Transport Hazard class: 8
Packing group II

Warning
H315-H319
P264-P280-P305+P351+P338-P332+P313-P337+P313-P302+P352a

Iron (II) ammonium sulfate 0.1N > RPE - For analysis — RPE

Assay (potentiomety) ..... 0.099 - 0.101 N

Code	Size	Packaging	Notes
P3250016	1 l	Glass bottle	

Iron (II) chloride tetrahydrate

Ferro cloruro oso tetraidrato • Fer (II) chlorure tétrahydraté • Hierro (II) cloruro tetrahidratado

Synonym:
Ferrous chloride tetrahydrate

$FeCl_2.4H_2O$
Molecular Weight: 198.81
CAS: 13478-10-9
EEC-N: 231-843-4

Classification transport
ONU: 3260
Transport Hazard class: 8
Packing group III

Danger
H302-H315-H318
P264-P280g-P280i-P305+P351+P338-P330-P332+P313

Iron (II) chloride tetrahydrate > RPE - For analysis — RPE

Description ..... Yellow-green crystals
Identification ..... Positive
Total nitrogen ..... ≤20 ppm
Phosphate ..... ≤10 ppm
Subst. not ppt NH4OH ..... ≤500 ppm
Ferric salt ..... ≤0.2 %
Sulphate ..... ≤50 ppm
As ..... ≤1 ppm
Cr ..... ≤20 ppm
Cu ..... ≤20 ppm
Mn ..... ≤0.1 %
Ni ..... ≤50 ppm
Pb ..... ≤20 ppm
Zn ..... ≤20 ppm
Assay (oxidimetric) ..... ≥ 99 %

Code	Size	Packaging	Notes
451574	100 g	Plastic bottle	
451575	500 g	Plastic bottle	
451576	1 kg	Plastic bottle	
451573	25 kg	Drum	

Iron (III) chloride anhydrous sublimed

Ferro cloruro ico anidro sublimato • Fer (III) chlorure anhydre sublimé • Hierro (III) cloruro anhidro sublimado

Synonym: *Ferric chloride*

$FeCl_3$
Molecular Weight: 162,21
CAS: 7705-08-0
EEC-N: 231-729-4

Classification transport
ONU: 1773
Transport Hazard class: 8
Packing group III

Danger
H302-H315-H318
P264-P280-P305+P351+P338-P330-P332+P313-P362

Iron (III) chloride anhydrous sublimed > RPE - For analysis

RPE

Description ..... Black powder
Identification ..... Positive
Water-insoluble matter ..... ≤ 1 %
As ..... ≤ 20 ppm
Cu ..... ≤ 0.1 %
Mn ..... ≤ 0.3 %
Ni ..... ≤ 500 ppm
Pb ..... ≤ 200 ppm
Zn ..... ≤ 0.1 %
Assay (oxidimetric) ..... ≥ 98 %

Code	Size	Packaging	Notes
451695	250 g	Glass bottle	
451696	1 kg	Glass bottle	
451692	25 kg	Drum	

Iron (III) chloride hexahydrate

Ferro cloruro ico esaidrato • Fer (III) chlorure hexahydraté • Hierro (III) cloruro hexahidratado

Synonym: *Ferric chloride hexahydrate*

$FeCl_3.6H_2O$
Molecular Weight: 270,3
CAS: 10025-77-1
EEC-N: 231-729-4

Classification transport
ONU: 3260
Transport Hazard class: 8
Packing group III

Danger
H314
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Iron (III) chloride hexahydrate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description ..... Brown pieces
Identification ..... Positive
Ca ..... ≤ 100 ppm
Water-insoluble matter ..... ≤ 100 ppm
Ferrous salt ..... ≤ 20 ppm
Total phosphorus ..... ≤ 100 ppm
Nitrate ..... ≤ 100 ppm
Sulphate ..... ≤ 100 ppm
Cu ..... ≤ 30 ppm
Zn ..... ≤ 30 ppm
Assay (oxidimetric) ..... 97.0 ÷ 102.0 %
Mg ..... ≤ 50 ppm
K ..... ≤ 50 ppm
Na ..... ≤ 0.05 %

Code	Size	Packaging	Notes
451625	100 g	Plastic bottle	
451626	500 g	Plastic bottle	
451627	1 kg	Plastic bottle	

Iron (III) chloride hexahydrate > RE - Pure

RE

Description ..... Grani o blocco giallo scuro
Identification ..... Positive
Acidity (HCl) ..... ≤ 0.8 %
Sulphate ..... ≤ 0.1 %
Fe (+2) ..... ≤ 0.9 %
Heavy metals (Pb) ..... ≤ 0.05 %
Assay (oxidimetric) ..... 59 ÷ 61 %
Assay (FeCl3.6H2O) ..... ≥ 99 %

Code	Size	Packaging	Notes
344507	1 kg	Plastic bottle	
344508	2.5 kg	Plastic jar	
344509	5 kg	Plastic jar	
344504	25 kg	Plastic bucket	

Iron (III) chloride solution 4.5%

Ferro cloruro ico soluzione 4,5% • Fer (III) chlorure solution 4.5% • Hierro (III) cloruro solución 4.5%

Classification transport
ONU: 3264
Transport Hazard class: 8
Packing group III

Danger
H318
P280-P305+P351+P338-P310a

Iron (III) chloride solution 4.5% > RPE - For analysis

RPE

Description ..... Yellow clear liquid
Identification ..... Positive
Density at 20° C ..... 1.019 ÷ 1.025
Assay ..... 4.3 ÷ 4.7 % p/p

Code	Size	Packaging	Notes
E451653	1 l	Bottle	

Iron (III) citrate

Ferro citrato ico • Fer (III) citrate • Hierro (III) citrato

Synonym:
Iron(III) citrate tribasic monohydrate
Ferric citrate monohydrate

$C_6H_8O_7.xFe$
Molecular Weight: 262,96
CAS: 2338-05-8
EEC-N: 219-045-4

Iron (III) citrate > RE - Pure

RE

Description ..... Red-brown crystals Identification ..... Positive Assay (iodometric) .....18 ÷ 20 % Fe

Code	Size	Packaging	Notes
344201	1 kg	Plastic bottle	
344202	5 kg	Plastic jar	

Iron (III) nitrate nonahydrate

Ferro nitrato ico nonaidrato • Fer(III) nitrate nonahydraté • Hierro (III) nitrato 9-hidratado

Synonym:
Ferric nitrate nonahydrate

$Fe(NO_3)_3.9H_2O$
Molecular Weight: 404,04
CAS: 7782-61-8
EEC-N: 233-899-5

Classification transport
ONU: 1466
Transport Hazard class: 5.1
Packing group III

Danger
H272-H315-H319-H335
P210-P221-P264-P271-P304+P340-P305+P351+P338

Iron (III) nitrate nonahydrate > RPE - For analysis - ACS

RPE

Description ...Purplish crystals deliquescent
Identification ..... Positive
Subst. not ppt NH4OH ..... ≤0.1 %
Water-insoluble matter .....≤50 ppm
Chloride.....≤5 ppm
Sulphate.....≤100 ppm
Assay (oxidimetric) .....98.0 ÷ 101.0 %

Code	Size	Packaging	Notes
451723	100 g	Plastic bottle	
451725	500 g	Plastic bottle	
451727	1 kg	Plastic bottle	
451722	25 kg	Drum	

Iron (III) oxide

Ferro ossido ico • fer (III) oxyde • Hierro (III) óxido

Synonym:
Ferric oxide

Fe_2O_3
Molecular Weight: 159,7
CAS: 1309-37-1
EEC-N: 215-168-2

Warning
H315-H319-H335
P264-P271-P304+P340-P305+P351+P338-P312a-P332+P313

Iron (III) oxide > RPE - For analysis

RPE

Description .....Red brown powder
Identification ..... Positive
Loss on drying ..... ≤0.2 %
Diluted HCl-ins. matter .....≤100 ppm
Total nitrogen.....≤50 ppm
Chloride.....≤100 ppm
Sulphate.....≤100 ppm
Ca.....≤100 ppm
Cd.....≤10 ppm
Co.....≤50 ppm
Cr.....≤10 ppm
Cu.....≤50 ppm
K.....≤50 ppm
Mg.....≤50 ppm
Mn.....≤50 ppm
Na.....≤200 ppm
Ni.....≤50 ppm
Pb.....≤50 ppm
Zn.....≤50 ppm
Assay (oxidimetric) ..... ≥99 %

Code	Size	Packaging	Notes
451824	100 g	Plastic bottle	
451826	500 g	Plastic bottle	

Iron (II) sulfate heptahydrate

Ferro solfato oso eptaidrato • Fer (II) sulfate heptahydraté • Hierro (II) sulfato heptahidratado

Synonym:
Ferrous sulfate heptahydrate

$FeSO_4.7H_2O$
Molecular Weight: 278,05
CAS: 7782-63-0
EEC-N: 231-753-5

Warning
H302-H315-H319
P264-P280g-P305+P351+P338-P330-P332+P313-P337+P313

Iron (II) sulfate heptahydrate > RPE - For analysis - ACS

RPE

Description ..... Green - azure crystals	Ca ..... ≤ 50 ppm	Mn ..... ≤ 0.05 %	K ..... ≤ 20 ppm
Identification ..... Positive	Chloride ..... ≤ 10 ppm	Zn ..... ≤ 50 ppm	Na ..... ≤ 0.02 %
Ferric salt ..... ≤ 0.1 %	Phosphate ..... ≤ 10 ppm	Assay (oxidimetric) ..... ≥ 99.0 %	
Water-insoluble matter ..... ≤ 100 ppm	Cu ..... ≤ 50 ppm	Mg ..... ≤ 20 ppm	

Code	Size	Packaging	Notes
451878	100 g	Plastic bottle	
451877	1 kg	Plastic bottle	
451879	5 kg	Plastic jar	

Iron (II) sulfate heptahydrate > ERBApharm - According to pharmacopoeia : BP-DAB-FU-Ph.Eur.-Ph.Franc.

ERBApharm

Description ..... Green azure crystals	Chloride ..... ≤ 200 ppm	Cu ..... ≤ 50 ppm	Zn ..... ≤ 50 ppm
Identification ..... Positive	Ferric ion ..... ≤ 0.3 %	Mn ..... ≤ 0.1 %	Assay (oxidimetric) ..... 98.0 ÷ 105.0 %
pH solution 5% ..... 3.0 ÷ 4.0	Cr ..... ≤ 50 ppm	Ni ..... ≤ 50 ppm	

Code	Size	Packaging	Notes
344957	1 kg	Plastic bottle	
344959	5 kg	Plastic jar	

Iron (II) sulfate 0.1mol/l

Ferro solfato oso 0.1mol/l • Fer (II) sulfate 0.1 mol/l • Hierro (II) sulfato 0.1mol/l

Synonym:
Ferrous sulfate 0.1 mol/l

Iron (II) sulfate 0.1mol/l > RS - For analysis according to Ph. Eur. Chap. 4.2.2

RS

Code	Size	Packaging	Notes
613001400	1 l	Plastic bottle	Ref Ph.Eur 3001400

Iron (III) sulfate

Ferro solfato ico • Fer (III) sulfate • Hierro (III) sulfato

Synonym:
Ferric sulfate hydrate

$Fe_2(SO_4)_3.nH_2O$
Molecular Weight: 151.85
CAS: 15244-10-7
EEC-N: 233-072-9

Danger
H302-H315-H318
P264-P280g-P280i-P305+P351+P338-P330-P332+P313

Iron (III) sulfate > RPE - For analysis

RPE

Description ..... Yellow-green powder	Dil. H2SO4-ins. matter ..... ≤100 ppm	Cu ..... ≤10 ppm	Zn ..... ≤100 ppm
Identification ..... Positive	Ferrous salt ..... ≤150 ppm	K ..... ≤500 ppm	Assay (oxidimetric) ..... 20 ÷ 23 % Fe
pH sol. 5% at 25° C ..... 1.0 ÷ 2.0	As ..... ≤3 ppm	Ni ..... ≤100 ppm	
Chloride ..... ≤ 0.1 %	Ca ..... ≤200 ppm	Pb ..... ≤20 ppm	

Code	Size	Packaging	Notes
451925	100 g	Plastic bottle	
451926	500 g	Plastic bottle	
451927	1 kg	Plastic bottle	

Isoamyl acetate

Isopentile acetato • Isoamyle acétate • Isopentilo acetato

Synonym:
Acetic acid 3-methylbutyl ester
Isopentyl acetate

$C_7H_{14}O_2$
Molecular Weight: 130,19
CAS: 123-92-2
EEC-N: 204-662-3

Classification transport
ONU: 1104
Transport Hazard class: 3
Packing group III

Warning
H226-HEU066
P210-P241-P243-P280a-P303+P361+P353-P403+P235

Isoamyl acetate > RPE - For analysis

RPE

Description ..... Clear colourless liquid
Identification ..... Positive
Water miscibility ..... Conform
Alcohol miscibility ..... Complete
Density at 20° C ..... 0.870 ÷ 0.874
Refractive index at 20°C. 1.3963 ÷ 1.4043
Boiling point ..... 140.5 ÷ 143.5 ° C
Water (K.F.) ..... ≤500 ppm
Residue on evaporation ..... ≤20 ppm
Acidity (acetic acid) ..... ≤50 ppm
Assay (GLC) ..... ≥99.0 %

Code	Size	Packaging	Notes
417781	250 ml	Glass bottle	
417782	1 l	Glass bottle	

Isoamyl acetate > RE - Pure

RE

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 20° C ..... 0.870 ÷ 0.874
Refractive index at 20°C ..... 1.3943 ÷ 1.4063
Boiling point ..... 140.5 ÷ 143.5 ° C
Water (K.F.) ..... ≤0.5 %
Residue on evaporation ..... ≤100 ppm
Acidity (acetic acid) ..... ≤0.1 %
Assay (GLC) ..... ≥ 98.0 %

Code	Size	Packaging	Notes
313251	1 l	Glass bottle	
313252	15 kg	Metal tank	

Isoamyl alcohol

Alcole isoamilico • Alcool isoamylique • Alcohol isoamílico

Synonym:
3-Methyl-1-butanol

$(CH_3)_2CHCH_2.CH_2OH$
Molecular Weight: 88,15
CAS: 123-51-3
EEC-N: 204-633-5

Classification transport
ONU: 1105
Transport Hazard class: 3
Packing group III

Warning
H226-H332-H335
P210-P241-P243-P303+P361+P353-P304+P340-P403+P235

Isoamyl alcohol > RS - For analysis according to Gerber

RS

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 20° C ..... 0.810 ÷ 0.814

Code	Size	Packaging	Notes
E413903	500 ml	Glass bottle	With indicator
413892	1 l	Glass bottle	Without indicator

Isoamyl alcohol > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 20° C ..... 0.805 ÷ 0.813
Refractive index at 20°C. 1.4023 ÷ 1.4083
Boiling point ..... 130.5 ÷ 132.5 °C
Water (K.F.) ..... ≤0.5 %
Acidity ..... ≤0.002 meq/g
Acids and esthers ..... ≤0.2 %
Residue on evaporation ..... ≤30 ppm
Carbonyl (HCOH) ..... ≤0.1 %
Assay (GLC) ..... ≥98.5 %

Code	Size	Packaging	Notes
413801	500 ml	Glass bottle	

Isoamyl alcohol > RPE - For analysis

RPE

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 20° C ..... 0.805 ÷ 0.813
Refractive index at 20°C. 1.4023 ÷ 1.4083
Boiling point ..... 130.5 ÷ 132.5 °C
Water (K.F.) ..... ≤0.5 %
Acidity ..... ≤0.002 meq/g
Acids and esthers ..... ≤0.2 %
Residue on evaporation ..... ≤30 ppm
Carbonyl (HCOH) ..... ≤0.1 %
Assay (GLC) ..... ≥97 %

Code	Size	Packaging	Notes
413832	1 l	Glass bottle	
413836	2.5 l	Glass bottle	
413833	22 kg	Metal drum	

Isoamyl alcohol > RE - Pure

RE

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 20° C ..... 0.807 ÷ 0.817
Refractive index at 20°C. 1.4038 ÷ 1.4098
Boiling point..... 132 ± 1.5 ° C
Water (K.F.) ..... ≤0.2 %
Residue on evaporation ..... ≤0.1 %
Acids and esthers..... ≤0.5 %

Code	Size	Packaging	Notes
308001	1 l	Glass bottle	
308003	22 kg	Metal drum	

Isobutanol

Isobutanolo • Isobutanol • Isobutanol

Synonym:
Isobutyl alcohol

$(CH_3)_2CHCH_2OH$
Molecular Weight: 74,12
CAS: 78-83-1
EEC-N: 201-148-0

Classification transport
ONU: 1212
Transport Hazard class: 3
Packing group III

Danger
H226-H315-H318-H335-H336
P210-P241-P264-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

Isobutanol > RS - Anhydrous - For analysis

RS

Refractive index at 20°C..... 1.394 - 1.398
Colour ..... ≤ 10 Hazen
Water content (K.F.) ..... ≤ 200 mg/Kg
Non volatile residue ..... ≤ 10 mg/Kg
Assay (GC) ..... ≥ 99.5 %
1-butanol..... ≤ 0.4 %
Free acid (as CH3COOH)..... ≤ 40 mg/Kg

Code	Size	Packaging	Notes
P0531016	1 l	Glass bottle	

Isobutanol > RPE - For analysis - ACS

RPE

Description ..... Clear liquid
Colour (APHA) ..... ≤10
Identification (I.R.)..... Positive
Fluorescence ..... Conform
Water solubility..... Conform
Density at 20° C ..... 0.801 ÷ 0.803
Refractive index at 20°C. 1.3945 ÷ 1.3975
Boiling point..... 105 ÷ 109 ° C
Water (K.F.) ..... ≤0.1 %
Residue on evaporation ..... ≤10 ppm
Carbonyl Compounds (CO) ..... ≤100 ppm
Acidity (acetic acid)..... ≤100 ppm
Alcalinity (NH3)..... ≤10 ppm
Indole base ..... ≤0.1 ppm
Assay (GLC) ..... ≥99 %

Code	Size	Packaging	Notes
414211	1 l	Glass bottle	
414213	22 kg	Metal drum	
414214	200 l	Metal drum	

Isobutanol > RE - Pure

RE

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 20° C ..... 0.800 ÷ 0.804
Refractive index at 20°C. 1.3930 ÷ 1.3990
Boiling point..... 105.0 ÷ 109.0 °C
Water (K.F.) ..... ≤0.1 %
Residue on evaporation ..... ≤50 ppm
Acidity (acetic acid)..... ≤ 40 ppm
Assay (GLC) ..... ≥99 %
1-Butanol ..... ≤ 0.4 %

Code	Size	Packaging	Notes
308301	1 l	Glass bottle	
308303	22 kg	Metal drum	

Isobutyl acetate

Isobutile acetato • Isobutyle acétate • Isobutilo acetato

Synonym:
Acetic acid isobutyl ester

$(CH_3)_2CHCH_2OCOCH_3$
Molecular Weight: 116,16
CAS: 110-19-0
EEC-N: 203-745-1

Classification transport
ONU: 1213
Transport Hazard class: 3
Packing group II

Danger
H225-HEU066
P210-P241-P243-P280a-P303+P361+P353-P403+P235

Isobutyl acetate > RPE - For analysis

RPE

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 20° C ..... 0.867 ÷ 0.877
Refractive index at 20°C..... 1.3851 ÷ 1.3951
Boiling point..... 114 ÷ 118.5 ° C
Water (K.F.) ..... ≤0.1 %
Residue on evaporation ..... ≤100 ppm
Acidity (acetic acid)..... ≤500 ppm
Assay (GLC) ..... ≥98.0 %

Code	Size	Packaging	Notes
431721	500 ml	Glass bottle	

Isobutyl acetate > RE - Pure

RE

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 20° C ..... 0.867 ÷ 0.877
Refractive index at 20°C ..... 1.3851 ÷ 1.3951
Boiling point ..... 114 ÷ 118.5 ° C
Water (K.F.) ..... ≤0.2 %
Residue on evaporation ..... ≤100 ppm
Acidity (acetic acid) ..... ≤500 ppm
Assay (GLC) ..... ≥97 %

Code	Size	Packaging	Notes
325631	1 l	Glass bottle	
325633	24 kg	Metal tank	

Isobutylacetone ▶ Methylisoamyl ketone

Isobutyl alcohol ▶ Isobutanol

Isobutyric acid

Acido iso-butirrico • Acide isobutyrique • Acido isobutírico

Synonym:
2-Methylpropanoic acid

$(CH_3)_2CHCOOH$
Molecular Weight: 88,11
CAS: 79-31-2
EEC-N: 201-195-7

Classification transport
ONU: 2529
Transport Hazard class: 3
Packing group III

Warning
H226-H302-H312
P210-P241-P264-P243-P303+P361+P353-P403+P235

Isobutyric acid > RPE - For analysis

RPE

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 20° C ..... 0.945 ÷ 0.955
Refractive index at 20°C ..... 1.3900 ÷ 1.3960
Sulphate ..... ≤50 ppm
Assay (GLC) ..... ≥99 %

Code	Size	Packaging	Notes
403272	500 ml	Glass bottle	

Isohexane

iso-Esano • Isohexane • Isohexano

Synonym:
2-Methylpentane

C_6H_{14}
Molecular Weight: 86,18
CAS: 107-83-5
EEC-N: 203-523-4

Classification transport
ONU: 1208
Transport Hazard class: 3
Packing group II

Danger
H225-H315-H336-H304-H411
P210-P241-P264-P273-P303+P361+P353-P304+P340-P403+P235

Isohexane > RS - For HPLC - Isocratic Grade

RS

Clear,colourless liq.appearance ..... Conform
Colour ..... ≤ 10 Apha
Identification (IR) ..... Conform
Water content (K.F.) ..... ≤ 150 mg/Kg
Non volatile residue ..... ≤ 5 mg/Kg
n-hexane ..... ≤ 6 %
Total C6H14 isomers (GC) ..... ≥ 80 %
UV transmittance at 200 nm ..... ≥ 25 %
UV transmittance at 210 nm ..... ≥ 55 %
UV transmittance at 220 nm ..... ≥ 80 %
UV transmittance at 230 nm ..... ≥ 90 %
UV transmittance at 250 nm ..... ≥ 98 %

Code	Size	Packaging	Notes
445152	1 l	Glass bottle	
445151	2.5 l	Glass bottle	

Isohexane > RS - ATRASOL - For trace analysis, Suitable for Hydrocarbon index determination

RS

Appearance ..... Clear colourless liquid
Identification (IR) ..... Conform
Water content (K.F.) ..... ≤ 50 mg/Kg
Colour ..... ≤ 5 Hazen
n-hexane ..... ≤ 3 %
Total C6H14 isomers (GC) ..... ≥ 95 %
Non volatile residue ..... ≤ 2 mg/Kg
GC-ECD.Individual peak (Lindane) .. ≤ 3 ng/l
Retention time trichlorobenzene to mirex
GC-FID.Hydrocarbon oil index... ≤ 0.05 mg/l
Retention time n-decane - n-tetracontane
GC-FID.Individual peak (C10-C40) .. ≤ 5 µg/l
Total sulphur (S) ..... ≤ 1 ppm

Code	Size	Packaging	Notes
P6263216	1 l	Glass bottle	
P6263221	2.5 l	Glass bottle	

Isohexane > RS - PESTIPUR - For pesticide analysis

RS

Water content (K.F.) ..... ≤ 100 mg/Kg
Colour ..... ≤ 10 Hazen
Identification (IR) ..... Conform
n-hexane ..... ≤ 5 %
Total C6H14 isomers (GC) ..... ≥ 80 %
Non volatile residue ..... ≤ 5 mg/Kg
GC-ECD.Individual peak (Lindane) ..... ≤ 3 ng/l
Retention time trichlorobenzene to mirex
Appearance ..... Clear colourless liquid

Code	Size	Packaging	Notes
447131	1 l	Glass bottle	
447132	2.5 l	Glass bottle	

Isohexane > RPE - For analysis

RPE

Description ..... Clear colourless liquid
Colour ..... ≤ 10 APHA
Identification (I.R.)..... Conform
Water (K.F.) ..... ≤ 150 ppm
Residue on evaporation ..... ≤ 10 ppm
Aromatic compounds..... ≤ 50 ppm
Total C6H14 isomers (GC)..... ≥ 80 %
n-Hexane..... ≤ 5 %
Methylcyclopentane..... ≤ 16 %
Total sulphur (S) ..... ≤ 1 ppm

Code	Size	Packaging	Notes
447311	1 l	Glass bottle	
447312	2.5 l	Glass bottle	

L(+)Isoleucine

L(+)Isoleucina • L(+)Isoleucine • L(+)Isoleucina

Synonym:
(2S,3S)-2-Amino-3-methylpentanoic acid

$CH_3CH_2(CH_3)CHCHNH_2COOH$
Molecular Weight: 131,18
CAS: 73-32-5
EEC-N: 200-798-2

L(+)Isoleucine > RPE - For analysis

RPE

Description ..... White crystalline powder
Identification ..... Positive
Melting point..... 283.0 ÷ 285.0 ° C
Specific optical rotation... +10.8 ÷ +11.8 °
Loss on drying ..... ≤0.1 %
Ammonium ..... ≤10 ppm
Chloride..... ≤50 ppm
Total phosphorus..... ≤10 ppm
Heavy metals (Pb)..... ≤10 ppm
Residue on ignition..... ≤500 ppm
Tyrosine..... ≤200 ppm
Total sulphur ..... ≤50 ppm
Fe ..... ≤10 ppm
Assay (non-aqueos medium)..... ≥99 %

Code	Size	Packaging	Notes
457957	1 g	Glass bottle	

Isooctane

Isoottano • Isooctane • Isooctano

Synonym:
2,2,4-Trimethylpentane

$(CH_3)_3CCH_2CH(CH_3)_2$
Molecular Weight: 114,23
CAS: 540-84-1
EEC-N: 208-759-1

Classification transport
ONU: 1262
Transport Hazard class: 3
Packing group II

Danger
H225-H315-H336-H304-H410
P210-P241-P303+P361+P353-P301+P310a-P405-P501a

Isooctane > RS - For HPLC - Isocratic Grade

RS

Description ..... Clear liquid
Colour ..... ≤ 10 hazen
Density at 20° C ..... 0.687 ÷ 0.697
Identification ..... Positive
Refractive index at 20°C. 1.3885 ÷ 1.3945
Water ..... ≤ 50 ppm
Boiling point..... 98.2 ÷ 100.2 ° C
Not volatile residue..... ≤ 5 ppm
Water (K.F.) ..... ≤50 ppm
Free acids (CH3COOH)..... ≤ 20 ppm
Residue on evaporation ..... ≤2 ppm
Aromatic compounds..... ≤ 5 ppm
Acidity or alkalinity..... ≤0.0002 meq/g
Assay (GLC) ..... ≥ 99.5 %
U.V. Transmittance
at 220 nm ..... ≥ 70 %
at 230 nm ..... ≥ 85 %
at 205 nm ..... ≥10 %
at 260 nm ..... ≥ 95 %
at 215 nm ..... ≥60 %
at 270 nm ..... ≥ 97 %
at 240 nm ..... ≥95 %
Filtered at 0.2 µm

Code	Size	Packaging	Notes
412441000	1 l	Glass bottle	
412442000	2.5 l	Glass bottle	

Isooctane > RS - PESTIPUR - For pesticide analysis

RS

Description ..... Clear colourless liquid
Identification ..... Positive
Colour ..... ≤ 10 hazen
Water ..... ≤ 50 ppm
Free acids (CH3COOH)..... ≤ 20 ppm
Not volatile residue..... ≤ 2 ppm
GC-ECD (Lindano) ..... ≤ 3 ng/l
GC-NPD (Ethylparation)..... ≤ 3 ng/l
Assay (GLC) ..... ≥ 99.5 %

Code	Size	Packaging	Notes
456791	1 l	Glass bottle	
456792	2.5 l	Glass bottle	

Isooctane > RS - SPECTROSOL - For optical spectroscopy - Reag.Ph.Eur.

RS

Description ..... Clear liquid
Colour (APHA) ..... ≤10
Identification ..... Positive
Density at 20° C ..... 0.691 ÷ 0.696
Refractive index at 20°C. 1.3910 ÷ 1.3930
Boiling point..... 98 ÷ 100 ° C
Acidity or alkalinity..... ≤0.0002 meq/g
Water (K.F.) ..... ≤50 ppm
Residue on evaporation ..... ≤5 ppm
Assay (GLC) ..... ≥99.5 %
Aromatic compounds..... ≤5 ppm
U.V. Transmittance
at 255 nm ..... ≥98 %
at 210 nm ..... ≥35 %
at 220 nm ..... ≥72 %
at 230 nm ..... ≥85 %
UV Absorbance from 250 nm to 420 nm.. ≤ 0.01 AU

Code	Size	Packaging	Notes
456754	1 l	Glass bottle	
456753	2.5 l	Glass bottle	

Isooctane > RS - Standard for refractometry

RS

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 20° C ..... 0.687 ÷ 0.697
Refractive index at 20°C . 1.3905 ÷ 1.3925

Code	Size	Packaging	Notes
456641	100 ml	Glass bottle	

Isooctane > RPE - For analysis - ACS

RPE

Description ..... Clear colourless liquid
Identification (I.R.) ..... Positive
Colour ..... ≤ 10 APHA
Density at 20°C ..... 0.691 - 0.696
Refractive index at 20°C ..... 1.391 - 1.393
Water-soluble titrable acid ≤ 0.0003 meq/g
Residue on evaporation ..... ≤ 0.001 %
Sulfur compounds (S) ..... ≤ 0.0005 %
Assay (CPG) ..... ≥ 99.5 %
Distillation range 95% distils between ..... 98 - 100 °C
Water (K.F.) ..... ≤ 100 ppm
Aromatics ..... ≤ 10 ppm

Code	Size	Packaging	Notes
456734	1 l	Glass bottle	
456732	2.5 l	Glass bottle	

Isooctane > RE - ASTM

RE

Description ..... Clear liquid
Identification ..... Positive
Density at 20°C ..... 0.687 ÷ 0.697
Refractive index at 20°C . 1.3885 ÷ 1.3945
Boiling point ..... 98.2 ÷ 100.2 °C
Residue on evaporation ..... ≤ 20 ppm
Water (K.F.) ..... ≤ 150 ppm
Aromatics ..... ≤ 50 ppm
Total sulphur ..... ≤ 10 ppm
Lead ..... ≤ 0.5 mg/l
n-heptane (ASTM) ..... ≤ 0.10 % v/v
Isooctane (ASTM) ..... ≥ 99.75 % v/v
Assay (GLC) ..... ≥ 99.5 %

Code	Size	Packaging	Notes
528963	2.5 l	Glass bottle	
528960	5 l	Plastic tank	
528961	25 l	Metal drum	
528962	200 l	Metal drum	

Isopar G

Isopar G • Isopar G • Isopar G

Molecular Weight: 150
CAS: 90622-57-4
EEC-N: 292-459-0

Classification transport
ONU: 3295
Transport Hazard class: 3
Packing group III

Danger
H226-H304-H413-HEU066
P210-P241-P273-P243-P303+P361+P353-P403+P235

Isopar G > RS - RSE - For electronic use

RS

Appearance ..... Clear colourless liquid
Colour ..... ≤ 10 APHA
Density at 15°C ..... 0.745 ÷ 0.756
Refractive index at 20°C ..... 1.416 ÷ 1.418
Distillation range ..... 159 ÷ 176 °C
Residue on evaporation ..... ≤ 10 ppm
Aromatics ..... ≤ 0.01 %

Code	Size	Packaging	Notes
526151	2.5 l	Glass bottle	

Isopentane

Isopentano • Isopentane • Isopentano

$(CH_3)_2CHCH_2CH_3$
Molecular Weight: 72,15
CAS: 78-78-4
EEC-N: 201-142-8

Classification transport
ONU: 1265
Transport Hazard class: 3
Packing group I

Danger
H224-H336-H304-H411-HEU066
P210-P241-P273-P303+P361+P353-P304+P340-P403+P235

Isopentane > RS - Anhydrous - For analysis

RS

Refractive index at 20°C ..... 1.352 - 1.356
Water content (K.F.) ..... ≤ 50 mg/Kg
Non volatile residue ..... ≤ 10 mg/Kg
Aromatic compounds ..... ≤ 20 mg/Kg
Colour ..... ≤ 10 Hazen
Assay (GC) ..... ≥ 95 %
Identification (IR) ..... Conform
Total sulphur (S) ..... ≤ 2 ppm

Code	Size	Packaging	Notes
P0651016	1 l	Glass bottle	

Isopentane > RPE - For analysis

RPE

Description ..... Clear colourless liquid
Colour ..... ≤ 10 APHA
Identification (I.R.) ..... Conform
Refractive index at 20°C ..... 1.352 ÷ 1.356
Water (K.F.) ..... ≤ 150 ppm
Residue on evaporation ..... ≤ 10 ppm
Aromatic compounds ..... ≤ 20 ppm
Assay (CPG) ..... ≥ 95 %
Total sulphur (S) ..... ≤ 2 ppm

Code	Size	Packaging	Notes
524391	1 l	Glass bottle	

Isopentane > RE - Pure

RE

Description ..... Clear colourless liquid
Identification ..... Positive
Colour ..... ≤ 10 APHA
Density at 20°C ..... 0.610 ÷ 0.630
Refractive index at 20°C. 1.3507 ÷ 1.3607
Boiling point..... 27 ÷ 28.5 °C
Water (K.F.) ..... ≤ 200 ppm
Residue on evaporation ..... ≤ 20 ppm
Aromatics ..... ≤ 50 ppm
Total sulphur (S) ..... ≤ 2 ppm
Assay ..... ≥ 95.0 %

Code	Size	Packaging	Notes
528492	1 l	Glass bottle	
528491	5 l	Metal tank	

Isopentyl acetate ▶ Isoamyl acetate

Isophorone

Isoforone • Isophorone • Isoforona

Synonym:
3,5,5-Trimethyl-2-cyclohexen-1-one

$(CH_3)_2CCH_2COCH{:}C(CH_3)CH_2$
Molecular Weight: 138,21
CAS: 78-59-1
EEC-N: 201-126-0

Warning
H302-H312-H319-H351-H335
P264-P271-P304+P340-P305+P351+P338-P308+P313-P330

Isophorone > RPE - For analysis

RPE

Description ..... Yellow clear liquid
Identification ..... Positive
Refractive index at 20°C. 1.4750 ÷ 1.4790
Assay (GLC) ..... ≥ 97.5 %

Code	Size	Packaging	Notes
456771	250 ml	Glass bottle	

Isopropanol ▶ Propan-2-ol

Isopropyl acetate

Isopropile acetato • Isopropyle acétate • Isopropilo acetato

Synonym:
Acetic acid isopropyl ester

$CH_3COOCH(CH_3)_2$
Molecular Weight: 102,13
CAS: 108-21-4
EEC-N: 203-561-1

Classification transport
ONU: 1220
Transport Hazard class: 3
Packing group II

Danger
H225-H319-H336-HEU066
P210-P241-P264-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

Isopropyl acetate > RPE - For analysis

RPE

Description ..... Clear liquid
Water content (K.F.) ..... ≤ 100 mg/Kg
Identification ..... Positive
Non volatile residue ..... ≤ 10 mg/Kg
Colour ..... ≤10 APHA
Density at 20° C ..... 0.869 ÷ 0.875
Assay (GC) ..... ≥ 99 %
Refractive index at 20°C. 1.3760 ÷ 1.3780
Free acid (as CH3COOH)..... ≤ 50 mg/Kg
Boiling point..... 88 ÷89 ° C
2-Propanol..... ≤ 1000 mg/Kg
Water (K.F.) ..... ≤0.05 %
Residue on evaporation ..... ≤10 ppm
Acidity (acetic acid)..... ≤50 ppm
Assay (GLC) ..... ≥99.8 %

Code	Size	Packaging	Notes
474821	250 ml	Glass bottle	
P0890528	5 l	Metal tank	

Isopropyl acetate > RE - Pure

RE

Refractive index at 20°C..... 1.375 - 1.379
Appearance ..... Clear liquid
Water content (K.F.) ..... ≤ 800 mg/Kg
Non volatile residue ..... ≤ 20 mg/Kg
Colour ..... ≤ 10 Hazen
Assay (GC) ..... ≥ 99 %
Free acid (as CH3COOH)..... ≤ 50 mg/Kg
2-Propanol..... ≤ 1000 mg/Kg

Code	Size	Packaging	Notes
P0890228	5 l	Plastic tank	
P0890240	10 l	Metal tank	
P0890268	200 l	Metal drum	

Isopropylamine

Isopropilammina • Isopropylamine • Isopropilamina

Synonym:
2-Aminopropane

$(CH_3)_2CHNH_2$
Molecular Weight: 59,11
CAS: 75-31-0
EEC-N: 200-860-9

Classification transport
ONU: 1221
Transport Hazard class: 3
Packing group I

Danger
H224-H315-H319-H335
P210-P241-P264-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

Isopropylamine > RPE - For analysis

RPE

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 20° C ..... 0.687 ÷ 0.693
Residue on evaporation ..... ≤50 ppm
Water (K.F.) ..... ≤0.1 %
Assay (GLC) ..... ≥99.5 %

Code	Size	Packaging	Notes
474756	1 l	Glass bottle	

Isopropyl myristate

Miristato di isopropile • Myristate d'isopropyle • Isopropilo Miristato

Synonym:
Isopropyl tetradecanoate
Myristic acid isopropyl ester

$C_{17}H_{34}O_2$
Molecular Weight: 2.704.507
CAS: 110-27-0
EEC-N: 203-751-4

Isopropyl myristate > RS - For synthesis

RS

Clear,colourless liq.appearance ..... Conform
Clear,colourless solution appearance ..... Conform
Alkohol miscibility ..... Miscible
Dichloromethane miscibility ..... Miscible
Identification B ..... Conform
Refractive index at 20°C .. 1.4340 - 1.4370
Assay (GC) (C17H34O2) ..... ≥ 92 %
Viscosity at 20°C ..... 5 - 6 mPa.s
Acid number ..... ≤ 1 mg KOH /g
Iodine number ..... ≤ 1 g I2/100g
Saponification number 202 - 212 mg KOH/g
Water content (K.F.) ..... ≤ 0.1 % m/m
Sulfuric ashes ..... ≤ 0.1 %

Code	Size	Packaging	Notes
P6070268	205 l	Metal drum	

Kaolin washed
Caolino lavato • Kaolin lavé • Caolín lavado

Synonym:
Halloysite nanoclay
Kaolin clay

CAS: 1332-58-7
EEC-N: 310-194-1

Kaolin washed > RE - Pure
RE

Description ..... White hazel powder Identification ..... Positive Loss on drying ..... ≤ 1 % Loss on ignition ..... 10.4 ÷ 11.8 %

Code	Size	Packaging	Notes
332573	5 kg	Plastic jar	
332574	25 kg	Sack	

Karl Fischer buffer solution
Karl Fischer buffer solution • Karl Fischer solution tampon • Karl Fischer solución tampón

Karl Fischer buffer solution > RS - ERBAqua - Volumetric titration
RS

Code	Size	Packaging	Notes
570111	500 ml	Glass bottle	

Karl Fischer fritless reagent
Karl Fischer reagente per celle senza diaframma • Karl Fischer réactif pour la cellule sans diaphragme • Karl Fischer reactivo para la celda sin diafragma

Karl Fischer fritless reagent > RS - ERBAqua - Coulometric titration
RS

Code	Size	Packaging	Notes
570131	500 ml	Glass bottle	

Can also be used with titrators that contain diaphragms or ceramic frits

Karl Fischer anolyte solution - CFC free
Karl Fischer soluzione anolita - senza CFC • Karl Fischer anolyte solution - sans CFC • Karl Fischer anolito solución - sin CFC

Karl Fischer anolyte solution - CFC free > RS - ERBAqua - Coulometric titration
RS

Code	Size	Packaging	Notes
570141	500 ml	Glass bottle	

Pyridin and chlorocarbon free vessel solution which retains solvent properties of the chloroform-containing solution - Suitable for non-polar samples - For cells with & without diagrams

Karl Fischer anolyte solution for ketones and aldehydes - Methanol free
Karl Fischer soluzione anolita per aldeidi e chetoni - senza metanolo • Karl Fischer anolyte solution pour cétones et aldéhydes - Sans méthanol • Karl Fischer anolito solución para aldehídos y cetonas -libre de metanol

Karl Fischer anolyte solution for ketones and aldehydes - Methanol free > RS - ERBAqua - Coulometric titration
RS

Code	Size	Packaging	Notes
570161	500 ml	Glass bottle	

Karl Fischer anolyte solution for oils
Karl Fischer soluzione anolita per olii • Karl Fischer anolyte solution pour les huiles • Karl Fischer anolito solución para los aceites

Karl Fischer anolyte solution for oils > RS - ERBAqua - Coulometric titration
RS

Code	Size	Packaging	Notes
570171	500 ml	Glass bottle	

Suitable for oils and petroleum products.For cells with diagrams

Karl Fischer anolyte solution, oven

Karl Fischer soluzione anolita, con forno • Karl Fischer anolyte solution, pour four • Karl Fischer anolito solución para horno

Karl Fischer anolyte solution, oven > RS - ERBAqua - Coulometric titration

RS

Code	Size	Packaging	Notes
570151	500 ml	Glass bottle	

Fritless reagent for use in conjuction with Karl Fischer oven-Pydidin and chlorocarbon free - For cells with & without diagrams

Karl Fischer anolyte solution - pyridine free

Karl Fischer anolyte solution - pyridine free • Karl Fischer anolyte solution - sans pyridine • Karl Fischer catolito solución - sin piridina

Karl Fischer anolyte solution - pyridine free > RS - ERBAqua - Coulometric titration

RS

Code	Size	Packaging	Notes
570121	500 ml	Glass bottle	

Karl Fischer catholyte solution - Pyridine free

Karl Fischer soluzione catolita - senza piridina • Karl Fischer catholyte solution - Sans pyridine • Karl Fischer catolito solución - libre de piridina

Karl Fischer catholyte solution - Pyridine free > RS - ERBAqua - Coulometric titration

RS

Code	Size	Packaging	Notes
570181	125 ml	Glass bottle	

Karl Fischer catholyte solution

Karl Fischer soluzione catolita • Karl Fischer catholyte solution • Karl Fischer catolito solución

Karl Fischer catholyte solution > RS - ERBAqua - Coulometric titration

RS

Code	Size	Packaging	Notes
570191	125 ml	Glass bottle	

Karl Fischer reagent 1 component 5 mg H2O/ml

Karl Fischer reattivo 5 mg H2O/ml monocomponente • Réactif de Karl Fischer 1 composant 5 mg H2O/ml • Karl Fischer reactivo 1 compuesto 5 mgH2O/ml

Karl Fischer reagent 1 component 5 mg H2O/ml > RS - ERBAqua - Volumetric titration

RS

Code	Size	Packaging	Notes
570011	1 l	Glass bottle	
570241	1 l	Glass bottle	New formulation. Not regulated for transport.

Pyridine free. Suitable for general purpose or aldehydes and ketones - To be used with anhydrous solvents (methanol, chloroform)

Karl Fischer reagent 1 component 2 mg H2O/ml

Karl Fischer reattivo 2 mg H2O/ml monocomponente • Réactif de Karl Fischer 1 composant 2 mgH2O/ml • Karl Fischer reactivo 1 compuesto 2 mgH2O/ml

Karl Fischer reagent 1 component 2 mg H2O/ml > RS - ERBAqua - Volumetric titration

RS

Code	Size	Packaging	Notes
570021	1 l	Glass bottle	
570251	1 l	Glass bottle	New formulation. Not regulated for transport.

Pyridine free. Suitable for general purpose or aldehydes and ketones - To be used with anhydrous solvents (methanol, chloroform)

Karl Fischer titrant 2 component 5 mg H2O/ml

Karl Fischer titolante bicomponente 5 mg H2O/ml • Karl Fischer titrant 2 composants 5 mg H2O/ml • Karl Fischer reactivo de valoración 2 compuestos 5 mg H2O/ml

Classification transport
ONU: 1992
Transport Hazard class: 3
Packing group II

Danger
H225-H301-H331-H315-H319-H370-H372
P210-P241-P264-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

Karl Fischer titrant 2 component 5 mg H2O/ml > RS - ERBAqua - Volumetric titration

RS

Code	Size	Packaging	Notes
570081	1 l	Glass bottle	

Karl Fischer solvent for aldehydes and ketones one component

Karl Fischer solvente monocomponente per aldeidi e chetoni • Karl Fischer solvant 1 composant pour aldéhydes et cétones • Karl Fischer solvente 1 compuesto para aldehídos y cetonas

Karl Fischer solvent for aldehydes and ketones one component > RS - ERBAqua - Volumetric titration

RS

Code	Size	Packaging	Notes
570041	1 l	Glass bottle	

To be used with one component Karl Fischer reagents. For determination of water in aldehydes and ketones. Especially suitable for higher MW products and mixtures containing non - polar constituents.

Karl Fischer solvent for oils one component

Karl Fischer solvente monocomponente per olii • Karl Fischer solvant pour huiles 1 composant • Karl Fischer solvente para los aceites 1 compuesto

Classification transport
ONU: 1992
Transport Hazard class: 3
Packing group III

Danger
H226-H301-H315-H319-H351-H361d-H370-H372-H412
P210-P241-P264-P273-P303+P361+P353-P305+P351+P338-P403+P235

Karl Fischer solvent for oils one component > RS - ERBAqua - Volumetric titration

RS

Code	Size	Packaging	Notes
570031	1 l	Glass bottle	

To be used with Karl Fischer reagents. For determination of water in oils or other non polar compounds.

Karl Fischer solvent 2 component

Karl Fischer solvent 2 component • Karl Fischer solvent 2 component • Karl Fischer solvente 2 componentes

Karl Fischer solvent 2 component > RS - ERBAqua - Volumetric titration

RS

Code	Size	Packaging	Notes
570071	1 l	Glass bottle	

Karl Fischer solvent 2 component for aldehydes and ketones - Methanol free

Karl Fischer solvente bicomponente per aldeidi e chetoni - senza metanolo • Karl Fischer solvant 2 composants pour aldéhydes et cétones - Sans méthanol • Karl Fischer solvente 2 compuestos para aldehídos y cetonas - sin metanol

Karl Fischer solvent 2 component for aldehydes and ketones - Methanol free > RS - ERBAqua - Volumetric titration

RS

Code	Size	Packaging	Notes
570091	1 l	Glass bottle	

Karl Fischer solvent for oils 2 component

Karl Fischer solvente bicomponente per olii • Karl Fischer solvant pour huiles 2 composant • Karl Fischer solvente para los aceites 2 compuestos

Karl Fischer solvent for oils 2 component > RS - ERBAqua - Volumetric titration

RS

Code	Size	Packaging	Notes
570101	1 l	Glass bottle	

To be used with a two component Karl Fischer titrant 570051 or 570061. For determination of water in oils or other non-polar coumpounds

Karl Fischer titrant 2 component 5 mg H2O/ml - non hygroscopic

Karl Fischer titolante bicomponente 5 mg H2O/ml - non igroscopico • Karl Fischer titrant 2 composants 5 mg H2O/ml - non hygroscopique • Karl Fischer reactivo de valoración 2 compuestos 5 mg H2O/ml - no higroscópico

Karl Fischer titrant 2 component 5 mg H2O/ml - non hygroscopic > RS - ERBAqua - Volumetric titration

RS

Code	Size	Packaging	Notes
570051	1 l	Glass bottle	

Karl Fischer titrant 2 component 2 mg H2O/ml - non hygroscopic

Karl Fischer titolante bicomponente 2 mg H2O/ml - non igroscopico • Karl Fischer titrant 2 composants 2 mg H2O/ml - non hygroscopique • Karl Fischer reactivo de valoración 2 compuestos 2 mg H2O/ml - no higroscópico

Karl Fischer titrant 2 component 2 mg H2O/ml - non hygroscopic > RS - ERBAqua - Volumetric titration

RS

Code	Size	Packaging	Notes
570061	1 l	Glass bottle	

Karl Fischer water standard 0.10 mg/g

Karl Fischer standard 0.10 mg/g acqua • Karl Fischer standard eau 0.10 mg/g • Karl Fischer agua estándar 0.10 mg/g

Karl Fischer water standard 0.10 mg/g > RS - ERBAqua - For checking calibration of coulometric Karl Fischer equipment

RS

Code	Size	Packaging	Notes
570201	10 x 5 ml	Glass bottle	

Gravimetric standard

Karl Fischer water standard 1.0 mg/g

Karl Fischer standard 1.0 mg/g acqua • Karl Fischer standard eau 1.0 mg/g • Karl Fischer agua estándar 1.0 mg/g

Karl Fischer water standard 1.0 mg/g > RS - ERBAqua - For checking calibration of coulometric Karl Fischer equipment

RS

Code	Size	Packaging	Notes
570211	10 x 5 ml	Glass bottle	

Gravimetric standard

Karl Fischer water standard 10.0 mg/g

Karl Fischer standard 10.0 mg/g acqua • Karl Fischer standard eau 10.0 mg/g • Karl Fischer agua estándar 10.0 mg/g

Karl Fischer water standard 10.0 mg/g > RS - ERBAqua - For checking calibration of coulometric Karl Fischer equipment

RS

Code	Size	Packaging	Notes
570221	10 x 5 ml	Glass bottle	

Gravimetric standard

Karl Fischer water standard 5.0 mg/ml
Karl Fischer standard 5.0 mg/ml acqua • Karl Fischer standard eau 5.0 mg/ml • Karl Fischer agua estándar 5.0 mg/ml

Karl Fischer water standard 5.0 mg/ml > RS - ERBAqua - For checking calibration of coulometric Karl Fischer equipment
RS

Code	Size	Packaging	Notes
570231	10 x 5 ml	Glass bottle	

Volumetric standard

Kerosene
Cherosene • Kérosène • Queroseno

CAS: 64742-47-8
EEC-N: 265-149-8

Danger
H226-H304
P210-P241-P243-P280a-P303+P361+P353-P403+P235

Kerosene > RE - Pure
RE

Description ..... Clear colourless liquid Identification ..... Positive Boling point min. ..... ≥ 175 °C Boiling point max..... ≤ 245 °C

Code	Size	Packaging	Notes
302575	5 l	Plastic tank	

Kieselguhr composed
Farina fossile composta • Terre de silice composée • Harina fósil compuesta

Synonym:
Diatomaceous earth

Molecular Weight: 1495
CAS: 91053-39-3
EEC-N: 293-303-4

Warning
H373
P260-P314-P501a

Kieselguhr composed > RS - For thin layer chromatography according to Stahl
RS

Description ..... Grey powder Identification ..... Positive

Code	Size	Packaging	Notes
449895	250 g	Plastic bottle	
449897	1 kg	Plastic jar	

Kjeldahl antifoam
Kjeldahl antischiuma • Kjeldahl Antimousse • Kjeldahl antiespumante

Kjeldahl antifoam > RS - For Kjeldahl
RS

Description ..... White round flat tablets

Code	Size	Packaging	Notes
502811	1000 x 1 g	Metallic can	Composition: Sodium sulfate 0.97 g/Silicone antifoam 0.03 g

Kjeldahl catalyst according to Wieninger
Kjeldahl catalizzatore sec. Wieninger • Catalyseur Kjeldahl selon Wieninger • Catalizador Kjeldahl según Wieninger

H412
P273-P501a

Kjeldahl catalyst according to Wieninger > RS - For Kjeldahl
RS

Description ..... Grey round flat tablets

Code	Size	Packaging	Notes
502821	1000 x 5 g	Metallic can	Composition : Sodium sulfate 4.88 g/ Copper sulfate 0.07 g/ Selenium 0.05 g

Kjeldahl catalyst for water analysis

Kjedahl catalizzatore per analisi dell'acqua • Catalyseur Kjedahl pour analyse de l'eau • Catalizador Kjeldahl para análisis del agua

HEU210

Kjeldahl catalyst for water analysis > RS - For Kjeldahl

RS

Description .....Dark grey round flat tablets

Code	Size	Packaging	Notes
502121	1000 x 5 g	Metallic can	Composition : Potassium sulfate 5.0 g/Selenium 5 mg
502122	1000 x 5 g	Metallic can	Composition : Potassium sulfate 5.0 g/Selenium 50 mg

Kjeldahl catalyst without selenium and titanium

Kjeldahl catalizzatore • Catalyseur Kjeldahl exempt de sélénium et titane • Catalizador Kjeldahl sin selenio y potassio

Classification transport
ONU: 3077
Transport Hazard class: 9
Packing group III

H411
P273-P391-P501a

Kjeldahl catalyst without selenium and titanium > RS - For Kjeldahl

RS

Description ..... Blue speckeld round flat tablets

Code	Size	Packaging	Notes
502791	1000 x 3.9 g	Metallic can	Composition : Potassium sulfate 3.50 g/Copper sulfate 0.40 g
502792	1000 x 5 g	Metallic can	Composition : Potassium sulfate 5.0 g/Copper sulfate 0.50 g

Kjeldahl selenium catalyst

Kjeldahl catalizzatore al selenio • Catalyseur Kjeldahl au sélénium • Catalizador Kjeldahl al selenio

Classification transport
ONU: 3077
Transport Hazard class: 9
Packing group III

Warning
H302-H411
P264-P273-P270-P330-P301+P312a-P391

Kjeldahl selenium catalyst > RS - For Kjeldahl

RS

Description .....Dark grey round flat tablets

Code	Size	Packaging	Notes
502120	1000 x 5 g	Metallic can	Composition : Potassium sulfate 4.63 g/Copper sulfate 0.28 g/ Selenium 0.09g

Kjeldahl titanium catalyst

Kjeldahl catalizzatore al titanio • Catalyseur Kjeldahl au titane • Catalizador Keldahl al titanio

Kjeldahl titanium catalyst > RS - For Kjeldahl

RS

Description ..... Blue speckled round flat tablets

Code	Size	Packaging	Notes
502123	1000 x 3.5 g	Metallic can	Composition : Potassium sulfate 3.5 g/Copper sulfate 0.105 g/ Titane dioxide 0.105 g
502801	1000 x 5 g	Metallic can	Composition : Potassium sulfate 5.00 g/Copper sulfate 0.15 g/ Titane dioxide 0.15 g

Kovac reagent

Kovac reattivo per indolo • Réactif pour l'indole selon Kovac • Kovac reactivo

Classification transport
ONU: 2922
Transport Hazard class: 8
Packing group II

Warning
H226-H332-H315-H319-H335
P210-P241-P264-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

Kovac reagent > RS - Reagent for indole

RS

Description .....Clear yellow green liquid Identification ..... Positive

Code	Size	Packaging	Notes
435922	100 ml	Glass bottle	

Lactic acid
Acido lattico • Acide lactique • Acido láctico

Synonym:
Sarcolactic acid

$CH_3CHOHCOOH$
Molecular Weight: 90,08
CAS: 79-33-4
EEC-N: 201-196-2

Danger
H315-H318
P264-P280g-P280i-P305+P351+P338-P332+P313-P302+P352a

Lactic acid > ERBApharm - According to pharmacopoeia : BP-DAB-FU-Ph.Eur.-Ph.Franc.

ERBApharm

Description .....Syrupy colourless to slightly yellow liq.
Identification ..... Positive
Appearance .....Conform Ph.Eur.
Reducing substances .....Conform Ph.Eur.
Ether ins. substances .....Conform Ph.Eur.
Citric, oxalic, phosphoric acids .....Conform Ph.Eur
Density at 20° C .....1.20 ÷ 1.21
Sulphated ash ..... ≤ 0.1 %
Heavy metals (Pb).....≤10 ppm
Sulphate .....≤200 ppm
Ca .....≤200 ppm
Assay (acidimetric) .....88.0 ÷ 92.0 %
Origin (BSE/TSE)..... Synthesis
Residual solvents (Current ICH).....Conform

Code	Size	Packaging	Notes
304652	1 l	Glass bottle	
304651	2.5 l	Glass bottle	
304653	25 kg	Plastic tank	

L-Lactic acid calcium salt ▶ Calcium lactate

Lactophenol blue solution
Blu lattofenolo soluzione • Bleu de lactophénol solution • Azul lactofenol solución

Classification transport
ONU: 3265
Transport Hazard class: 8
Packing group II

Danger
H302-H312-H332-H314-H318-H341-H373
P264-P271-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Lactophenol blue solution > RS - For microscopy

RS

Description .....Dark blue liquid
Identification ..... Positive

Code	Size	Packaging	Notes
428901	100 ml	Glass bottle	

CE IVD ***Dye for bacteriology. Contains phenol and lactic acid***

Lactose
Lattosio • Lactose • Lactosa

Synonym:
4-O-β-D-Galactopyranosyl-D-glucose

$C_{12}H_{22}O_{11}.H_2O$
Molecular Weight: 360,32
CAS: 10039-26-6
EEC-N: 200-559-2

Lactose > RPE - For analysis - ACS

RPE

Description .....White crystalline powder
Identification ..... Positive
Dextrose.....Conform
Sucrose.....Conform
Water (K.F.) ..... 4.0 ÷ 6.0 %
Water-insoluble matter .....≤50 ppm
Residue on ignition.....≤300 ppm
Heavy metals (Pb).....≤5 ppm
Fe .....≤5 ppm

Code	Size	Packaging	Notes
457551	100 g	Plastic bottle	
457552	250 g	Plastic bottle	
457557	1 kg	Plastic bottle	
457553	25 kg	Plastic bucket	

Lactose > ERBApharm - According to pharmacopoeia : DAB-BP-FU-NF-Ph.Eur.

ERBApharm

Description ..... White crystalline powder
Identification ..... Positive
Appearance of solution .....Conform Ph.Eur.
Acidity or alkalinity.....Conform Ph.Eur.
Absorbance .....Conform Ph.Eur.
Specific optical rotation on dry ..... +54.4 ÷ +55.9 °
Water (K.F.) .....4.5 ÷ 5.5 %
Loss on drying ..... ≤ 0.5 %
Sulphated ash..... ≤ 0.1 %
Heavy metals (Pb).....≤ 5 ppm
TAMC ..... ≤ 100 CFU/g
TYMC ..... ≤ 50 CFU/g
Escherichia coli ..... Absent Ph.Eur

Code	Size	Packaging	Notes
348707	1 kg	Plastic bottle	
348708	5 kg	Plastic jar	
348702	10 kg	Carton drum	
348703	25 kg	Plastic bucket	

Lanolin anhydrous

Grasso di lana anidro • Lanoline anhydre • Grasa de lana anhidra

Synonym:
Wool fat

CAS: 8006-54-0
EEC-N: 232-348-6

Lanolin anhydrous > ERBApharm - According to pharmacopoeia : FU-Ph.Eur.

ERBApharm

Description .....Soft yellow mass
Melt prod. description.....Clear liquid
Identification ..... Positive
Acids,alkal.water-solub.....Conform Ph.Eur.
Oxydable hydrosol.matt.....Conform Ph.Eur.
Water absorption capac. ....Conform Ph.Eur.
Acid value..... ≤1.0
Peroxide value..... ≤20
Saponification value.....90 ÷ 105
Loss on drying ..... ≤0.5 %
Sulphated ash..... ≤0.15 %
Chloride.....≤150 ppm
Paraffins..... ≤1.0 %
Residui pesticidi .....≤ 1 ppm

Code	Size	Packaging	Notes
347357	1 kg	Box	
347359	5 kg	Plastic jar	
347354	50 kg	Metal drum	

Lanthanum standard solution

Lantanio standard soluzione • Lanthane solution standard • Lantano, solución patrón

Classification transport
ONU: 3267
Transport Hazard class: 8
Packing group III

Lanthanum standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505692	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505695	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid
505693	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Lanthanum standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
503681	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503685	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
503683	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503687	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Lanthanum standard solution > RS - Standard solution for AAS

RS

Code	Size	Packaging	Notes
507744	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
507509	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Lanthanum chloride 25 g/L solution

Lantanio cloruro 25 g/L soluzione • Lanthane chlorure 25g/L • Lantano cloruro solución 25 g/l

Synonym:
Lanthanum(III) chloride
Lanthanum trichloride

$LaCl_3$
Molecular Weight: 245,27
CAS: 10099-58-8

Danger
H314
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Lanthanum chloride 25 g/L solution > RS - Ionisation standard solution for AAS

RS

Code	Size	Packaging	Notes
504537	500 ml	Plastic bottle	Matrix : Hydrochloric acid

Lanthanum nitrate hexahydrate

Lantanio nitrato esaidrato • Lanthane nitrate hexahydraté • Lantano nitrato hexahidratado

Synonym:
Nitric acid, lanthanum (III) salt, hexahydrate

$La(NO_3)_3.6H_2O$
Molecular Weight: 433,02
CAS: 10277-43-7
EEC-N: 233-238-0

Warning
H315-H319
P264-P280-P305+P351+P338-P332+P313-P337+P313-P362

Lanthanum nitrate hexahydrate > RPE - For analysis

RPE

Description ..... White crystalline powder Identification ..... Positive Fe ..... ≤ 10 ppm Assay ..... ≥ 98.0 %

Code	Size	Packaging	Notes
457502	25 g	Glass bottle	
457506	250 g	Plastic bottle	

Lanthanum nitrate 0.1 mol/l

Lantanio nitrato 0.1 mol/l • Lanthane nitrate 0.1 mol/l • Lantano nitrato 0.1 mol/l

Lanthanum nitrate 0.1 mol/l > RS - For analysis according to Ph. Eur. Chap. 4.2.2

RS

Code	Size	Packaging	Notes
613010100	1 l	Plastic bottle	Ref Ph.Eur 3010100

Lanthanum nitrate solution 50 g/l

Lantanio nitrato soluzione 50 g/l • Lanthane nitrate 50 g/l • Lantano nitrato solución 50 g/l

Lanthanum nitrate solution 50 g/l > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611048001	1 l	Plastic bottle	Ref Ph.Eur 1048001

Lanthanum oxide

Lantanio ossido • Lanthane oxyde • Lantano oxido

La_2O_3
Molecular Weight: 325,81
CAS: 1312-81-8
EEC-N: 215-200-5

Lanthanum oxide > RPE - For analysis

RPE

Description ..... White or pink powder Loss on ignition ..... ≤1 % Sr ..... ≤20 ppm
Identification ..... Positive Ca ..... ≤100 ppm Assay (complexometric) ..... ≥99.0 %

Code	Size	Packaging	Notes
457511	100 g	Glass bottle	

Lauryltrimethylammonium bromide ▶ Dodecyltrimethylammonium bromide

Lead standard solution

Piombo standard soluzione • Plomb solution standard • Plomo, solución patrón

Classification transport
ONU: 3264
Transport Hazard class: 8
Packing group III

Warning
H315-H319
P264-P280-P305+P351+P338-P332+P313-P337+P313-P302+P352a

Lead standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2

RS

Code	Size	Packaging	Notes
615001700	100 ml	Plastic bottle	A 0.1 % solution Ref Ph.Eur 5001700
615001702	100 ml	Plastic bottle	A 10 ppm solution : to dilute according to Ref Ph.Eur 5001702
615001703	100 ml	Plastic bottle	A 2 ppm solution : to dilute according to Ref Ph.Eur 5001703
615001704	100 ml	Plastic bottle	A 1 ppm solution : to dilute according to Ref Ph.Eur 5001704
615001705	100 ml	Plastic bottle	A 0.1 ppm solution : to dilute according to Ref Ph.Eur 5001705
615001706	100 ml	Plastic bottle	A 10 ppm solution R1 : to dilute according to Ref Ph.Eur 5001706
615001709	100 ml	Plastic bottle	A 100 ppm solution : to dilute according to Ref Ph.Eur 5001701
615001701	500 ml	Plastic bottle	A 0.1 % solution Ref Ph.Eur 5001700

Lead standard solution > RS - For analysis according to USP

RS

Code	Size	Packaging	Notes
504901	100 ml	Plastic bottle	conc. 100 ppm
504902	500 ml	Plastic bottle	conc. 100 ppm

Lead standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505767	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505768	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid
505769	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Lead standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
503801	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503805	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
503803	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503807	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Lead standard solution > RS - Standard solution for AAS

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
E497595	100 ml	Glass bottle	conc. 1.000 ppm Matrix : Nitric acid
E497591	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Lead standard solution > RS - NORMEX - Concentrated solution for AAS

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
468791		Plastic vial	conc. 1.000 ppm Matrix : Nitric acid - Volume : 50 ml

Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package

Lead standard solution > RS - Quality control standard solution for AAS (graphite furnace)

RS

Code	Size	Packaging	Notes
504364	50 ml	Plastic bottle	conc. 10 +/- 1 µg/L Matrix : 2% Nitric acid

Lead

Piombo • Plomb • Plomo

Pb
Molecular Weight: 207,2
CAS: 7439-92-1
EEC-N: 231-100-4

Danger
H302-H332-H360-H373-HA26
P264-P271-P280-P304+P340-P308+P313-P314

Lead > RPE - For analysis

RPE

Description ..... Grey foil Identification ..... Positive Assay ..... 99 ÷ 100 %

Code	Size	Packaging	Notes
468866	500 g	Box	

~ 0,7 mm thickness

Lead (II) acetate basic

Piombo acetato basico • Plomb (II) acétate basique • Plomo (II) acetato básico

Synonym:
Lead subacetate

$C_4H_6O_4Pb.2Pb(OH)_2$
Molecular Weight: 566,48
CAS: 1335-32-6
EEC-N: 215-630-3

Classification transport
ONU: 1616
Transport Hazard class: 6.1
Packing group III

Danger
H351-H360Df-H373-H410-HA26
P273-P280-P260-P308+P313-P314-P391

Lead (II) acetate basic > RPE - For analysis - ACS

RPE

Description ..... White powder
Identification ..... Positive
Loss on drying ..... ≤1.5 %
Water-insoluble matter ..... ≤1.0 %

Insol.in dil.acetic ac. ..... ≤200 ppm
Chloride ..... ≤30 ppm
Nitrate-nitrite (NO3) ..... ≤30 ppm
Ca ..... ≤ 100 ppm

Cu ..... ≤20 ppm
Fe ..... ≤20 ppm
K ..... ≤ 200 ppm
Na ..... ≤ 500 ppm

Assay (alkalimetric) ..... ≥33.0 % PbO

Code	Size	Packaging	Notes
468984	100 g	Plastic bottle	
468985	250 g	Plastic bottle	
468987	1 kg	Plastic bottle	

Lead (II) acetate basic solution

Piombo acetato basico soluzione • Plomb (II) acétate basique soluiton • Plomo acetato básico solución

Synonym:
Lead subacetate

$Pb(CH_3COO)_2Pb(OH)_2$
CAS: 1335-32-6

Classification transport
ONU: 1616
Transport Hazard class: 6.1
Packing group III

Danger
H351-H360Df-H373-H400-H410-HA26
P273-P280-P260-P308+P313-P314-P391

Lead (II) acetate basic solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611048400	100 ml	Glass bottle	Ref Ph.Eur 1048400

Lead (II) acetate solution 95 g/l

Piombo acetato soluzione 95 g/l • Plomb acétate solution 95g/l • Plomo (II) acetato solución 95 g/l

Synonym:
Lead subacetate

Classification transport
ONU: 3082
Transport Hazard class: 9
Packing group III

Danger
H360Df-H373-H411-HEU201-HA26
P273-P280-P260-P308+P313-P314-P391

Lead (II) acetate solution 95 g/l > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611048103	100 ml	Plastic bottle	Ref Ph.Eur 1048103

Lead (II) acetate cotton
Cotone piombo (II) acetato • Coton à l'acétate de plomb • Plomo acetato algodón

Classification transport
ONU: 3082
Transport Hazard class: 9
Packing group III

Danger
H360-H411-HEU201-HA26
P273-P280-P201-P202-P308+P313-P391

Lead (II) acetate cotton > RS - For analysis according to Ph. Eur. Chap. 4.1.1 — RS

Code	Size	Packaging	Notes
611048101	10 g	Glass bottle	Ref Ph.Eur 1048101

Lead (II) acetate paper
Cartina piombo (II) acetato • Papier à l'acétate de plomb • Plomo acetato papel

Classification transport
ONU: 3082
Transport Hazard class: 9
Packing group III

Danger
H360-H411-HEU201-HA26
P273-P280-P201-P202-P308+P313-P391

Lead (II) acetate paper > RS - For analysis according to Ph. Eur. Chap. 4.1.1 — RS

Code	Size	Packaging	Notes
611048102	50 pc	Glass bottle	Ref Ph.Eur 1048102

Lead (II) acetate paper > RS - For pHmetry — RS

Code	Size	Packaging	Notes
435180000	1 roll	Dispenser	Paper lead acetate, Color change : White --> Brown-Black

Lead (II) acetate trihydrate
Piombo di-acetato triidrato • Plomb (II) acétate trihydrate • Plomo (II) acetato 3-hidratado

$C_4H_6O_4Pb.3H_2O$
Molecular Weight: 379,33
CAS: 6080-56-4

Classification transport
ONU: 1616
Transport Hazard class: 6.1
Packing group III

Danger
H302-H332-H360Df-H373-H410-HEU201-HA26
P264-P273-P271-P280-P304+P340-P308+P313

Lead (II) acetate trihydrate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP — RPE

Description ..... White crystals
Identification ..... Positive
Diluted acetic acid insoluble matter ... ≤100 ppm
Chloride ..... ≤5 ppm
Nitrate-nitrite (NO3) ..... ≤50 ppm
Cu ..... ≤20 ppm
Fe ..... ≤10 ppm
Assay (complexometric) .... 99.0 ÷ 103.0 %
Ca ..... ≤50 ppm
K ..... ≤50 ppm
Na ..... ≤100 ppm

Code	Size	Packaging	Notes
468934	100 g	Plastic bottle	
468935	250 g	Plastic bottle	
468937	1 kg	Plastic bottle	
468932	25 kg	Drum	

Lead (II) nitrate

Piombo nitrato • Plomb (II) nitrate • Plomo (II) nitrato

Synonym: *Lead dinitrate*

$Pb(NO_3)_2$
Molecular Weight: 331,21
CAS: 10099-74-8
EEC-N: 233-245-9

Classification transport
ONU: 1469
Transport Hazard class: 5.1
Packing group II

Danger
H302-H332-H360Df-H373-H410-HEU201-HA26
P264-P273-P271-P280-P304+P340-P308+P313

Lead (II) nitrate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description ..... White crystals
Identification ..... Positive
Dil. HNO3-insol. matter ..... ≤ 50 ppm
Chloride ..... ≤ 10 ppm
Ca ..... ≤ 50 ppm
Cu ..... ≤ 20 ppm
Fe ..... ≤ 10 ppm
Assay (complexometric) ..... ≥ 99.0 %
K ..... ≤ 50 ppm
Na ..... ≤ 0.02 %

Code	Size	Packaging	Notes
469355	100 g	Plastic bottle	
469356	500 g	Plastic bottle	
469357	1 kg	Plastic bottle	
469353	25 kg	Plastic bucket	

Lead (II) nitrate > RE - Pure

RE

Description ..... White crystals
Identification ..... Positive
Dil. HNO3-insol. matter ..... ≤ 0.005 %
Chloride ..... ≤ 50 ppm
pH solution 7.5% ..... 3 ÷ 4
Cu ..... ≤ 20 ppm
Fe ..... ≤ 10 ppm
Assay (complexometric) ..... ≥ 98.0 %

Code	Size	Packaging	Notes
358007	1 kg	Plastic bottle	
358008	5 kg	Plastic jar	

Lead (II) nitrate 0.05 mol/l

Piombo nitrato 0.05 mol/l • Plomb (II) nitrate 0.05 mol/l • Plomo (II) nitrato 0.05 mol/l

Synonym: *Lead dinitrate*

Danger
H360D-H373-H412-HEU201-HA26
P273-P280-P260-P201-P308+P313-P314

Lead (II) nitrate 0.05 mol/l > RS - For analysis according to Ph. Eur. Chap. 4.2.2

RS

Code	Size	Packaging	Notes
613009700	100 ml	Plastic bottle	Ref Ph.Eur 3009700

Lead (II) nitrate 0.1 mol/l

Piombo nitrato 0.1 mol/l • Plomb (II) nitrate 0.1 mol/l • Plomo (II) nitrato 0.1 mol/l

Synonym: *Lead dinitrate*

Danger
H360Df-H373-H411-HEU201-HA26
P273-P280-P260-P308+P313-P314-P391

Lead (II) nitrate 0.1 mol/l > RS - For analysis according to Ph. Eur. Chap. 4.2.2

RS

Code	Size	Packaging	Notes
613003101	500 ml	Plastic bottle	Ref Ph.Eur 3003100
613003100	1 l	Plastic bottle	Ref Ph.Eur 3003100

Lead (II) nitrate solution 33 g/l

Piombo nitrato soluzione 33 g/l • Plomb (II) nitrate solution 33g/l • Plomo (II) nitrato solución 33 g/l

Synonym: *Lead dinitrate*

Classification transport
ONU: 1935
Transport Hazard class: 6.1
Packing group III

Danger
H360Df-H373-H411-HEU201-HA26
P273-P280-P260-P308+P313-P314-P391

Lead (II) nitrate solution 33 g/l > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611048301	1 l	Plastic bottle	Ref Ph.Eur 1048301

Lead (II) oxide
Piombo ossido • Plomb (II) oxyde • Plomo (II) óxido

PbO
Molecular Weight: 223,2
CAS: 1317-36-8
EEC-N: 215-267-0

Classification transport
ONU: 3077
Transport Hazard class: 9
Packing group III

Danger
H302-H332-H360Df-H373-H410-HEU201-HA26
P264-P273-P271-P280-P304+P340-P308+P313

Lead (II) oxide > RPE - For analysis
RPE

Description ..... Polvere gialla o arancio
Identification ..... Positive
Chloride ..... ≤ 20 ppm
Insoluble in Acetic ac. ..... ≤ 200 ppm
Nitrate ..... ≤ 100 ppm
Ag ..... ≤ 5 ppm
Ca ..... ≤ 50 ppm
Cu ..... ≤ 50 ppm
Fe ..... ≤ 20 ppm
K ..... ≤ 50 ppm
Na ..... ≤ 0.02 %
Assay (complexometric) ..... ≥ 99.0 %

Code	Size	Packaging	Notes
469404	100 g	Glass bottle	

Lead (II) oxide > RE - Pure
RE

Description ..... Yellow powder
Identification ..... Positive
Assay ..... ≥ 99.8 %

Code	Size	Packaging	Notes
358257	1 kg	Plastic bottle	
358259	5 kg	Plastic jar	
358252	25 kg	Drum	

Lead (IV) oxide
Piombo biossido • Plomb (IV) oxyde • Plomo (IV) óxido

Synonym:
Lead peroxide

PbO_2
Molecular Weight: 239,2
CAS: 1309-60-0
EEC-N: 215-174-5

Classification transport
ONU: 1872
Transport Hazard class: 5.1
Packing group III

Danger
H302-H332-H360Df-H373-H410-HEU201-HA26
P264-P273-P271-P280-P304+P340-P308+P313

Lead (IV) oxide > RPE - For analysis
RPE

Description ..... Blackish powder
Identification ..... Positive
Chloride ..... ≤ 200 ppm
Sulphate ..... ≤ 0.1 %
HNO3-insoluble matter ..... ≤ 0.05 %
Substances not ppt. H2S ..... ≤ 0.05 %
Loss on drying ..... ≤ 0.5 %
Mn ..... ≤ 20 ppm
Assay (oxidimetric) ..... ≥ 97.0 %

Code	Size	Packaging	Notes
469055	250 g	Plastic bottle	
469057	1 kg	Plastic bottle	

Lead (II) sulfate
Piombo solfato • Plomb (II) sulfate • Plomo (II) sulfato

Synonym:
Anglesite

$PbSO_4$
Molecular Weight: 303,26
CAS: 7446-14-2
EEC-N: 231-198-9

Classification transport
ONU: 3077
Transport Hazard class: 9
Packing group III

Danger
H302-H332-H360Df-H373-H410-HEU201-HA26
P264-P273-P271-P280-P304+P340-P308+P313

Lead (II) sulfate > RPE - For analysis
RPE

Description ..... White powder
Identification ..... Positive
Loss on ignition ..... ≤0.5 %
Chloride ..... ≤20 ppm
Insol.in Ammonium acet. ..... ≤500 ppm
Nitrate ..... Conform
Fe ..... ≤20 ppm
K ..... ≤500 ppm
Na ..... ≤0.1 %
Assay (complexometric) ..... ≥99.0 %

Code	Size	Packaging	Notes
469505	250 g	Plastic bottle	
469506	1 kg	Plastic bottle	

Lecithin of soya
Lecitina di soia • Lécithine de soja • Lecitina de soja

Synonym:
L-α-Phosphatidylcholine
1,2-Diacyl-sn-glycero-3-phosphocholine

Molecular Weight: 750
CAS: 8002-43-5
EEC-N: 232-307-2

Lecithin of soya > RE - Pure
RE

Description	Powder	Acidity index	< 35 mg KOH/g	Assay (phospholipids as acetone insolubl	> 97 %
Identification	Positive	Peroxide value	< 5 meq O2/Kg	Heavy metals (Pb)	≤ 2 ppm
Water	< 1 %	Insolubles in toluene	< 0.3 %	Sulphated ash	≤ 12 %

Code	Size	Packaging	Notes
348754	1 kg	Plastic bottle	

L(+)-Leucine
L(+)Leucina • L(+)-Leucine • L(+)-Leucina

Synonym:
(S)-2-Amino-4-methylpentanoic acid

$(CH_3)_2CHCH_2CHNH_2COOH$
Molecular Weight: 131,18
CAS: 61-90-5
EEC-N: 200-522-0

L(+)-Leucine > RPE - For analysis
RPE

Description	White crystals	Ammonium	≤50 ppm	Residue on ignition	≤500 ppm	Fe	≤10 ppm
Identification	Positive	Chloride	≤250 ppm	Tyrosine	≤200 ppm	Assay (non-aqueos medium)	≥99 %
Specific optical rotation	+15.1 ÷ +16.1 °	Total phosphorus	≤10 ppm	Tryptophan	≤300 ppm		
Loss on drying	≤0.1 %	Heavy metals (Pb)	≤10 ppm	Total sulphur	≤250 ppm		

Code	Size	Packaging	Notes
457928	5 g	Glass bottle	

Light green
Verde luce SF • Vert lumière SF • Verde claro SF

Synonym:
Acid Green 5

$C_{37}H_{34}N_2Na_2O_9S_3$
Molecular Weight: 792,86
CAS: 5141-20-8
EEC-N: 225-906-5

Warning
H312-H332
P271-P280-P261-P304+P340-P312a-P302+P352a

Light green > RS - For microscopy - C.I. 42095
RS

Description	Dark violet powder	Maximum absorption	630 ÷ 632 nm	Assay	≥ 95 %
Identification	Positive	Water solubility	Conform		

Code	Size	Packaging	Notes
491371	10 g	Glass bottle	
491372	25 g	Glass bottle	

Dye for botanical-bacteriology-cytology

Lynalol
Linalolo • Linalol • Linalol

Synonym:
(±)-3,7-Dimethyl-1,6-octadien-3-ol
(+/-)3,7-Dimethyl-3-hydroxy-1,6-octadiene

$C_{10}H_{18}O$
Molecular Weight: 154,25
CAS: 78-70-6
EEC-N: 201-134-4

Warning
H315-H319-H335
P264-P271-P304+P340-P305+P351+P338-P312a-P332+P313

Lynalol > RE - Pure
RE

Appearance	Colourless liquid	Refractive index at 20°C	1.461 - 1.465	Colour	≤ 15 Hazen
Identification	Conform	Density d20/4	0.858 - 0.867	Assay (GC)	≥ 97 %

Code	Size	Packaging	Notes
P9550276	250 ml	Glass bottle	

Lithium standard solution

Litio standard soluzione • Lithium solution standard • Litio, solución patrón

Danger
H314
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Lithium standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505702	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505705	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid
505703	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Lithium standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
503691	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
503695	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrochloric acid
503693	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
503697	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrochloric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Lithium standard solution > RS - Standard solution for AAS

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
507745	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
E497525	100 ml	Glass bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
507486	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
E497521	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Lithium standard solution > RS - NORMEX - Concentrated solution for AAS

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
458211		Plastic vial	conc. 1.000 ppm Matrix : Nitric acid - Volume : 50 ml

Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package

Lithium standard solution > RS - Standard solution for ion chromatography

RS

Code	Size	Packaging	Notes
503281	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503283	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Lithium carbonate

Litio carbonato • Lithium carbonate • Litio carbonato

Synonym:
Carbolithium
Carbonic acid lithium salt

Li_2CO_3
Molecular Weight: 73,89
CAS: 554-13-2
EEC-N: 209-062-5

Warning
H302-H319
P264-P280i-P305+P351+P338-P330-P337+P313-P301+P312a

Lithium carbonate > RPE - For analysis - ACS

RPE

Description ..... White powder
Identification ..... Positive
Chloride ..... ≤ 50 ppm
Diluted HCl-ins. matter ..... ≤ 100 ppm
Heavy metals (Pb) ..... ≤ 20 ppm
Nitrate ..... ≤ 5 ppm
Total sulphur ..... ≤ 0.2 %
Ca ..... ≤ 100 ppm
Fe ..... ≤ 20 ppm
K ..... ≤ 100 ppm
Assay (alkalimetric) ..... ≥ 99.0 %
Na ..... ≤ 0.1 %

Code	Size	Packaging	Notes
458204	100 g	Plastic bottle	
458207	1 kg	Plastic bottle	

Lithium carbonate > RE - Pure

RE

Description ..... White powder
Identification ..... Positive
Chloride ..... ≤300 ppm
Diluted HCl-ins. matter ..... ≤500 ppm
Sulphate ..... ≤0.2 %
Fe ..... ≤30 ppm
Assay (non-aqueos medium) ..... ≥98 %

Code	Size	Packaging	Notes
348955	250 g	Plastic bottle	
348957	1 kg	Plastic bottle	

Lithium chloride

Litio cloruro • Lithium chlorure • Litio cloruro

LiCl
Molecular Weight: 42,39
CAS: 7447-41-8
EEC-N: 231-212-3

Warning
H302-H315-H319
P264-P280g-P305+P351+P338-P330-P332+P313-P337+P313

Lithium chloride > RPE - For analysis - ACS

RPE

Description ..... White crystalline powder
Identification ..... Positive
Alcalinity ..... ≤ 0.008 meq/g
Loss on drying ..... ≤ 1.0 %
Water-insoluble matter ..... ≤ 100 ppm
Heavy metals (Pb) ..... ≤ 20 ppm
Nitrate ..... ≤ 10 ppm
Sulphate ..... ≤ 100 ppm
Ba ..... ≤ 30 ppm
Ca ..... ≤ 100 ppm
Fe ..... ≤ 10 ppm
K ..... ≤ 100 ppm
Assay (argentimetric) ..... ≥ 99 %
Na ..... ≤ 0.2 %

Code	Size	Packaging	Notes
458254	100 g	Glass bottle	
458256	500 g	Plastic bottle	
458257	1 kg	Plastic bottle	

Lithium chloride > RE - Pure

RE

Description ..... White crystalline powder
Identification ..... Positive
K + Na ..... ≤ 0.50 %
Umidità (H2O) ..... ≤ 0.8 %
Sulphate ..... ≤ 500 ppm
Fe ..... ≤ 20 ppm
Assay (argentimetric) ..... ≥ 99 %

Code	Size	Packaging	Notes
458271	250 g	Plastic bottle	
458272	1 kg	Plastic bottle	
458275	5 kg	Plastic jar	
458273	25 kg	Plastic bucket	

Lithium hydride
Litio idruro • Lithium hydrure • Litio hidruro

LiH
Molecular Weight: 7,95
CAS: 7580-67-8
EEC-N: 231-484-3

Classification transport
ONU: 1414
Transport Hazard class: 4.3
Packing group I

Danger
H260-H314
P223-P264-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Lithium hydride > RE - Pure
RE

Description ..... Polvere bianco grigiast
Identification ..... Positive
Assay (gas volumetric) ..... ≥95 %

Code	Size	Packaging	Notes
458303	50 g	Glass bottle	

Lithium hydroxide anhydrous
Litio idrossido anidro • Lithium hydroxyde anhydre • Litio hidróxido anhidro

LiOH
Molecular Weight: 23,95
CAS: 1310-65-2
EEC-N: 215-183-4

Classification transport
ONU: 2680
Transport Hazard class: 8
Packing group II

Danger
H331-H314
P264-P271-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Lithium hydroxide anhydrous > RPE - For analysis
RPE

Description ..... White powder
Identification ..... Positive
Carbonate ..... ≤1.5 %
Chloride ..... ≤200 ppm
K + Na ..... ≤0.1 %
Heavy metals (Pb) ..... ≤20 ppm
Sulphate ..... ≤500 ppm
Fe ..... ≤20 ppm
Assay ..... ≥98 % LiOH

Code	Size	Packaging	Notes
458281	250 g	Glass bottle	
458282	1 kg	Glass bottle	

Lithium hydroxide monohydrate
Litio idrossido monoidrato • Lithium hydroxyde monohydraté • Litio hidróxido monohidrato

$LiOH.H_2O$
Molecular Weight: 41,96
CAS: 1310-66-3
EEC-N: 215-183-4

Classification transport
ONU: 2680
Transport Hazard class: 8
Packing group II

Danger
H302-H314
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Lithium hydroxide monohydrate > RPE - For analysis
RPE

Description ..... White cryst. powder
Identification ..... Positive
Carbonate ..... ≤1 %
Chloride ..... ≤200 ppm
Heavy metals (Pb) ..... ≤10 ppm
Sulphate ..... ≤500 ppm
Ca ..... ≤200 ppm
Fe ..... ≤30 ppm
K ..... ≤100 ppm
Mg ..... ≤50 ppm
Na ..... ≤100 ppm
Assay (acidimetric) ..... ≥98 %

Code	Size	Packaging	Notes
458292	1 kg	Plastic bottle	

Lithium nitrate
Litio nitrato • Lithium nitrate • Litio nitrato

$LiNO_3$
Molecular Weight: 68,95
CAS: 7790-69-4
EEC-N: 232-218-9

Classification transport
ONU: 2722
Transport Hazard class: 5.1
Packing group III

Danger
H272
P221-P210a-P280a-P220-P370+P378a-P501a

Lithium nitrate > RPE - For analysis
RPE

Description ..... White crystalline powder
Identification ..... Positive
Water ..... ≤ 1 %
Alcalinity ..... ≤ 0.05 %
Chloride ..... ≤ 100 ppm
Sulphate ..... ≤ 500 ppm
Fe2O3 ..... ≤ 50 ppm
Assay ..... ≥ 99.0 %

Code	Size	Packaging	Notes
458355	250 g	Plastic bottle	
458356	1 kg	Plastic bottle	

Lithium sulfate monohydrate
Litio solfato monoidrato • Lithium sulfate monohydraté • Litio sulfato monohidrato

$Li_2SO_4.H_2O$
Molecular Weight: 127,95
CAS: 10102-25-7
EEC-N: 233-802-4

Warning
H302
P264-P270-P330-P301+P312a-P501a

Lithium sulfate monohydrate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP — RPE

Description ..... White crystalline powder
Identification ..... Positive
Loss on drying 150° C..... 13.0 ÷ 15.0
Water-insoluble matter .....≤100 ppm
Chloride.....≤20 ppm
Nitrate .....≤10 ppm
Heavy metals (Pb).....≤10 ppm
Fe .....≤10 ppm
K.....≤500 ppm
Na.....≤500 ppm
Assay (acidimetric) ..... ≥99.0 % s.s.

Code	Size	Packaging	Notes
458404	100 g	Plastic bottle	
458405	1 kg	Plastic bottle	

Lithium tetraborate anhydrous
Litio tetraborato anidro • Lithium tétraborate anhydre • Litio tetraborato anhidro

$Li_2B_4O_7$
Molecular Weight: 169,12
CAS: 12007-60-2
EEC-N: 234-514-3

Warning
H315-H319-H335
P264-P271-P280-P304+P340-P305+P351+P338-P312a

Lithium tetraborate anhydrous > RE - Pure — RE

Description ..... White powder
Identification ..... Positive
Assay .....≥ 98 %

Code	Size	Packaging	Notes
458163	1 kg	Plastic bottle	
458164	5 kg	Plastic jar	

Litmus
Tornasole • Tournesol • Tornasol

CAS: 1393-92-6
EEC-N: 215-739-6

Litmus > RPE - For analysis — RPE

Description .....Dark blue granules
Identification ..... Positive
Colour change.....rosso - blu
pH range .....4.8 ÷ 8.3

Code	Size	Packaging	Notes
489054	100 g	Plastic bottle	

Acid-base indicator (pH 4.5 ÷ 8.3)

Litmus paper
Cartine tornasole • Papier tournesol • Papel tornasol

Classification transport
ONU: 2025

Litmus paper > RS - For analysis according to Ph. Eur. Chap. 4.1.1 — RS

Code	Size	Packaging	Notes
611049301	50	Glass bottle	Ref Ph.Eur 1049301

Litmus paper > RS - For pHmetry

RS

Code	Size	Packaging	Notes
435260000	1 roll	Box	Blue litmus paper, Color change : blue --> red, change pH 8.0 - 5.0
435300000	1 roll	Box	Neutral litmus paper, Color change : red <-- purple --> Blue, Change pH 5.0 - 8.0
435340000	1 roll	Box	Red litmus paper, Color change : red --> blue, Change pH 5.0 - 8.0

Roll dispenser 5 m by 7 mm

Lugol concentrated solution

Lugol "forte" soluzione concentrata • Réactif de Lugol solution concentrée • Lugol reactivo solución concentrada

Danger
H334-H317-H373
P280-P284-P260-P304+P340-P342+P311a-P314

Lugol concentrated solution > RS - For microscopy

RS

Description ..... Liquido limpido rosso bruno Identification ..... Positive Assay as iodine (oxidimetric) ..... 4.9 ÷ 5.1 % (p/v)

Code	Size	Packaging	Notes
458741	1 l	Glass bottle	

Lugol solution for Gram-Hucker kit

Lugol soluzione in acqua per kit Gram-Hucker • Réactif de Lugol solution pour kit de Gram-Hucker • Lugol solución para kit Gram - Hucker

Danger
H315-H318-H334-H317-H412
P264-P273-P280-P304+P340-P305+P351+P338-P342+P311a

Lugol solution for Gram-Hucker kit > RS - For bacteriology

RS

Description ..... Brown clear liquid Identification ..... Positive Assay ..... 0.85 ÷ 0.95 %p/p (I2)

Code	Size	Packaging	Notes
458751	250 ml	Glass bottle	

CE IVD

Lugol's Reagent Iodine-Iodide Solution

Lugol reattivo soluzione iodo-iodurata • Réactif de Lugol solution • Lugol reactivo solución yodo-yodurata

Danger
H334-H317-H373
P280-P284-P260-P304+P340-P342+P311a-P314

Lugol's Reagent Iodine-Iodide Solution > RS - For colposcopy

RS

Description ..... Brown clear liquid Identification ..... Positive Assay as iodine (oxidimetric) ..... 1.9 ÷ 2.1 % p/v

Code	Size	Packaging	Notes
458762	250 ml	Glass bottle	
E458761	6 x 250 ml	Glass bottle	
458763	1 l	Glass bottle	
E458764	6 x 1 l	Glass bottle	

Dye for bacteriology

Luminol

Luminol • Luminol • Luminol

Synonym:
5-Amino-2,3-dihydro-1,4-phthalazinedione

$C_8H_7N_3O_2$
Molecular Weight: 177,17
CAS: 521-31-3
EEC-N: 208-309-4

Warning
H302-H332
P264-P271-P261-P304+P340-P330-P301+P312a

Luminol > RPE - For analysis

RPE

Description ..... Polvere verde-giallog. Identification ..... Positive Assay (acidimetric) ..... 97.5 ÷ 102.5 %

Code	Size	Packaging	Notes
458772	25 g	Glass bottle	

For chemiluminescence

Lutetium standard solution

Lutezio standard soluzione • Lutéthium solution standard • Lutecio, solución patrón

Classification transport
ONU: 1760
Transport Hazard class: 8
Packing group III

Lutetium standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505707	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505708	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid
505709	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Lutetium standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
503611	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503615	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
503613	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503617	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

L(+)Lysine monohydrochloride

L(+)Lisina monocloridrato • L(+)Lysine monochlorhydrate • L(+)Lisina monoclorhidrato

Synonym:
(S)-2,6-Diaminohexanoic acid monohydrochloride

$C_6H_{14}N_2O_2.HCl$
Molecular Weight: 182,65
CAS: 657-27-2
EEC-N: 211-519-9

L(+)Lysine monohydrochloride > RPE - For analysis

RPE

Description ..... White powder
Identification ..... Positive
Specific optical rotation... +19.5 ÷ +21.5 °
Loss on drying ..... ≤0.3 %
Ammonium ..... ≤10 ppm
Total phosphorus ..... ≤5 ppm
Water-insoluble matter ..... ≤50 ppm
Heavy metals (Pb) ..... ≤10 ppm
Residue on ignition ..... ≤500 ppm
Total sulphur ..... ≤30 ppm
Fe ..... ≤10 ppm
Assay (ex nitrogen) ..... ≥99 %
Assay (argentimetric) ..... ≥99 %

Code	Size	Packaging	Notes
458122	25 g	Glass bottle	
458124	100 g	Plastic bottle	
458121	5 kg	Plastic jar	

Magnesium standard solution

Magnesio standard soluzione • Magnésium solution standard • Magnesio, solución patrón

Magnesium standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2

RS

Code	Size	Packaging	Notes
615001801	100 ml	Plastic bottle	A 10 ppm solution : to dilute according to Ref Ph.Eur 5001801
615001802	100 ml	Plastic bottle	A 10 ppm solution : to dilute according to Ref Ph.Eur 5001802
615001803	100 ml	Plastic bottle	A 0.1 % solution Ref Ph.Eur 5001803
615001809	100 ml	Plastic bottle	A 100 ppm solution : to dilute according to Ref Ph.Eur 5001800

Magnesium standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505712	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505715	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid
505713	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Magnesium standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
503711	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503715	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
503713	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503717	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Magnesium standard solution > RS - Standard solution for AAS

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
E497535	100 ml	Glass bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
503718	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503719	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
507039	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
E497531	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Magnesium standard solution > RS - NORMEX - Concentrated solution for AAS

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
458891		Plastic vial	conc. 1.000 ppm Matrix : Nitric acid - Volume : 50 ml

Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package

Magnesium standard solution > RS - Standard solution for ion chromatography

RS

Code	Size	Packaging	Notes
503291	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503293	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503390	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water and nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Magnesium, powder
Magnesio, polvere • Magnésium, poudre • Magnesio, polvo

Mg
Molecular Weight: 24,31
CAS: 7439-95-4
EEC-N: 231-104-6

Classification transport
ONU: 1869
Transport Hazard class: 4.1
Packing group III

Danger
H228-H251-H261
P210-P231+P232-P235+P410-P422a

Magnesium, powder > RPE - For analysis
RPE

Description ..... Grey powder Identification ..... Positive Titolo (AAS/ICP) ..... ≥ 99 % (Mg)

Code	Size	Packaging	Notes
459066	500 g	Bottle	

Magnesium, ribbon
Magnesio, nastro • Magnesium, rubans • Magnesio, tiras

Mg
Molecular Weight: 24,31
CAS: 7439-95-4
EEC-N: 231-104-6

Classification transport
ONU: 1869
Transport Hazard class: 4.1
Packing group III

Danger
H228-H251-H261
P210-P231+P232-P235+P410-P422a

Magnesium, ribbon > RPE - For analysis
RPE

Description ..... Ribbon Identification ..... Positive Assay ..... ≥ 99 %

Code	Size	Packaging	Notes
459044	100 g	Carton box	

Size ~ 0.2 x 3 mm

Magnesium, turnings
Magnesio, tornitura • Magnésium, tournures • Magnesio, virutas

Mg
Molecular Weight: 24,31
CAS: 7439-95-4
EEC-N: 231-104-6

Classification transport
ONU: 1869
Transport Hazard class: 4.1
Packing group III

Danger
H228-H251-H261
P210-P231+P232-P235+P410-P422a

Magnesium, turnings > RPE - For analysis
RPE

Description ..... Silvery turnings Identification ..... Positive Other metals ..... ≤ 0.10 % Assay ..... ≥ 99.80 % (Mg)

Code	Size	Packaging	Notes
459085	250 g	Metallic can	

According to Grignard

Magnesium acetate tetrahydrate
Magnesio acetato tetraidrato • Magnésium acétate tétrahydraté • Magnesio acetato tetrahidratado

Synonym:
Acetic acid magnesium salt

$Mg(CH_3COO)_2.4H_2O$
Molecular Weight: 214,46
CAS: 16674-78-5
EEC-N: 205-554-9

Magnesium acetate tetrahydrate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP
RPE

Description ..... White crystalline powder
Identification ..... Positive
Water-insoluble matter ..... ≤ 50 ppm
Chloride ..... ≤ 10 ppm
Sulphate ..... ≤ 50 ppm
Heavy metals (Pb) ..... ≤ 5 ppm
Ba ..... ≤ 10 ppm
Ca ..... ≤ 100 ppm
Fe ..... ≤ 5 ppm
K ..... ≤ 50 ppm
Mn ..... ≤ 10 ppm
Na ..... ≤ 50 ppm
Sr ..... ≤ 50 ppm
Assay (complexometric) .... 98.0 ÷ 102.0 %

Code	Size	Packaging	Notes
459135	250 g	Plastic bottle	
459137	1 kg	Plastic bottle	
459131	25 kg	Drum	

Magnesium carbonate basic

Magnesio carbonato basico • Magnésium carbonate basique • Magnesio carbonato básico

Synonym:
Magnesium hydroxide carbonate

$(MgCO_3)_4.Mg(OH)_2.5H_2O$
Molecular Weight: 467,52
CAS: 39409-82-0
EEC-N: 235-192-7

Magnesium carbonate basic > RPE - For analysis

RPE

Description	Light white powder	Chloride	≤300 ppm	Ca	≤ 0.2 %	Pb	≤ 0.5 ppm
Identification	Positive	Heavy metals (Pb)	≤10 ppm	Cd	≤ 0.5 ppm	Loss on calcination	55.0 - 60.0 %
Water solubility	≤0.5 %	Sulphate	≤ 0.20 %	Fe	≤400 ppm	Assay (complexometric) (MgO)	40.0 ÷ 45.0 %
Insoluble in acetic acid	≤ 0.05 %	As	≤2 ppm	Hg	≤ 0.1 ppm		

Code	Size	Packaging	Notes
459285	250 g	Plastic bottle	
459287	1 kg	Plastic jar	

Magnesium carbonate basic > ERBApharm - According to pharmacopoeia : BP-FU-Ph.Eur.-Ph.Franc.

ERBApharm

Description	White powder	Chloride	≤0.07 %	Acet.ac.not soluble ma.	≤0.05 %	Assay (Mg oxide)	40.0 ÷ 45.0 %
Identification	Positive	Heavy metals (Pb)	≤20 ppm	As	≤2 ppm		
Appearance of solution	Conform Ph.Eur.	Sulphate	≤0.3 %	Ca	≤0.75 %		
Apparent density	60 ÷ 150 g/l	Water-soluble subst.	≤1.0 %	Fe	≤0.04 %		

Code	Size	Packaging	Notes
349257	1 kg	Plastic jar	

Light powder

Magnesium carbonate basic > ERBApharm - According to pharmacopoeia : USP

ERBApharm

Description	White powder	Heavy metals (Pb)	≤30 ppm	As	≤4 ppm	Assay (Mg oxide)	40.0 ÷ 43.5 %
Identification	Positive	Soluble salts	≤1.0 %	Ca	≤0.45 %	Escherichia coli	Absent
Apparent density	400 ÷ 500 g/l	Acid not soluble matter	≤0.05 %	Fe	≤0.02 %		

Code	Size	Packaging	Notes
349279	5 kg	Plastic jar	

Heavy powder

Magnesium chloride hexahydrate

Magnesio cloruro esaidrato • Magnésium chlorure hexahydraté • Magnesio cloruro hexahidrato

$MgCl_2.6H_2O$
Molecular Weight: 203,31
CAS: 7791-18-6
EEC-N: 232-094-6

Magnesium chloride hexahydrate > RPE - For analysis - ACS - ISO

RPE

Description	White crystals	Phosphate	≤5 ppm	Ba	≤50 ppm	Mn	≤5 ppm
Identification	Positive	Nitrate	≤10 ppm	Ca	≤100 ppm	Na	≤50 ppm
Water-insoluble matter	≤50 ppm	Sulphate	≤20 ppm	Fe	≤5 ppm	Sr	≤50 ppm
Ammonium	≤20 ppm	Heavy metals (Pb)	≤5 ppm	K	≤50 ppm	Assay (complexometric)	99.0 ÷ 102.0 %

Code	Size	Packaging	Notes
459336	100 g	Plastic bottle	
459337	1 kg	Plastic bottle	
459331	5 kg	Plastic jar	
459332	25 kg	Plastic bucket	
459334	50 kg	Fibre drum	

Magnesium chloride hexahydrate > ERBApharm - According to pharmacopoeia : Ph.Eur.-USP-FU-Ph.Franc.-BP

ERBApharm

Description Colourless hygroscopic crystals
Identification B ..... Positive
Identification C ..... Positive
Identification (I.R.) ..... Positive
Appearance of solution ..... Conform Ph.Eur.
Acidity or alkalinity ..... Conform Ph.Eur.
Ba ..... Conform USP-NF
K ..... Conform USP-NF
pH solution 5% ..... 4.5 ÷ 7.0
Water (K.F.) ..... 51.0 ÷ 55.0 %
Heavy metals (Pb) ..... ≤10 ppm
Bromide ..... ≤500 ppm
Sulphate ..... ≤50 ppm
Not soluble matter ..... ≤50 ppm
Al ..... ≤1 ppm
As ..... ≤2 ppm
Ca ..... ≤100 ppm
Fe ..... ≤10 ppm
Assay (complexometric) .... 98.0 ÷ 101.0 %
Origin (BSE/TSE) ..... Synthesis
Residual solvents (Current ICH) ..... Conform

Code	Size	Packaging	Notes
349357	1 kg	Plastic bottle	
349359	5 kg	Plastic jar	
349355	25 kg	Drum	

Magnesium chloride hexahydrate > RE - Pure

RE

Description ..... White cristalline powder
Identification ..... Positive
Ammonium ..... ≤ 50 ppm
Sulphate ..... ≤ 100 ppm
As ..... ≤ 2 ppm
Al ..... ≤ 1 ppm
Ba ..... ≤ 20 ppm
Ca ..... ≤ 1000 ppm
Cu ..... ≤ 10 ppm
Fe ..... ≤ 5 ppm
K ..... ≤ 3000 ppm
Na ..... ≤ 5000 ppm
Pb ..... ≤ 10 ppm
Zn ..... ≤ 10 ppm
Assay (complexometric) .... 98.5 ÷ 101.5 %

Code	Size	Packaging	Notes
349377	1 kg	Plastic bottle	
349372	25 kg	Plastic bucket	

Magnesium glycerophosphate

Magnesio glicerofosfato • Magnesium glycerophosphate • Magnesio glicerofosfato

Synonym:
DL-alpha-glycerol phosphate magnesium salt hydrate

$C_3H_7O_2PO_4Mg$
Molecular Weight: 194,36
CAS: 927-20-8
EEC-N: 231-149-3

Magnesium glycerophosphate > RE - Pure

RE

Description ..... White crystalline powder
Identification ..... Positive
Residue on calcination ..... 47 ÷ 52 %
Glycerol-Alc.sol.impur. ..... ≤ 2 %
Heavy metals (Pb) ..... ≤ 10 ppm
As ..... ≤ 4 ppm
Assay ..... ≥ 98 %

Code	Size	Packaging	Notes
349407	1 kg	Plastic bottle	

Magnesium hydrogen phosphate trihydrate

Magnesio fosfato bibasico triidrato • Magnesium phosphate dibasique trihydraté • Magnesio fosfato dibásico trihidrato

Synonym:
Magnesium phosphate dibasic trihydrate
Newberyite

$MgHPO_4.3H_2O$
Molecular Weight: 174,34
CAS: 7782-75-4

Magnesium hydrogen phosphate trihydrate > RPE - For analysis

RPE

Description ..... White powder
Identification ..... Positive
Chloride ..... ≤100 ppm
HCl-insoluble matter ..... ≤500 ppm
Sulphate ..... ≤ 60 ppm
As ..... ≤1 ppm
Cu ..... ≤50 ppm
Fe ..... ≤50 ppm
Ni ..... ≤ 50 ppm
Pb ..... ≤50 ppm
Assay (complexometric) ..... 97 ÷ 100 %

Code	Size	Packaging	Notes
459437	1 kg	Plastic bottle	

Magnesium hydroxide carbonate ▶ Magnesium carbonate basic

Magnesium nitrate hexahydrate

Magnesio nitrato esaidrato • Magnésium nitrate hexahydraté • Magnesio nitrato hexahidratado

$Mg(NO_3)_2.6H_2O$
Molecular Weight: 256,41
CAS: 13446-18-9
EEC-N: 233-826-7

Classification transport
ONU: 1474
Transport Hazard class: 5.1
Packing group III

Danger
H272-H319
P221-P264-P210a-P280a-P305+P351+P338-P337+P313

Magnesium nitrate hexahydrate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description ..... White crystals
Identification ..... Positive
pH sol. 5% at 25° C ..... 5.0 ÷ 8.2
Water-insoluble matter ..... ≤50 ppm
Ammonium ..... ≤30 ppm
Chloride ..... ≤10 ppm
Phosphate ..... ≤5 ppm
Sulphate ..... ≤50 ppm
Heavy metals (Pb) ..... ≤5 ppm
Ba ..... ≤50 ppm
Ca ..... ≤100 ppm
Fe ..... ≤5 ppm
K ..... ≤50 ppm
Mn ..... ≤5 ppm
Na ..... ≤50 ppm
Sr ..... ≤50 ppm
Assay (complexometric) .... 98.0 ÷ 102.0 %

Code	Size	Packaging	Notes
459535	100 g	Plastic bottle	
459536	500 g	Plastic bottle	
459537	1 kg	Plastic bottle	

Magnesium nitrate hexahydrate > RE - Pure

RE

Description ..... White or yellowish pellets
Identification ..... Positive
Fe ..... ≤ 10 ppm
Assay (complexometric) ..... ≥ 96 %

Code	Size	Packaging	Notes
349557	1 kg	Plastic bottle	

Magnesium nitrate 10 g/L solution

Magnesio nitrato 10 g/L soluzione • Magnésium nitrate 10 g/L • Magnesio nitrato solución 10 g/L

HEU210

Magnesium nitrate 10 g/L solution > RS - Matrix modifiers for AAS-GTA

RS

Code	Size	Packaging	Notes
503196	50 ml	Plastic bottle	conc. 10 ppm - Matrix : Nitric acid

Magnesium oxide

Magnesio ossido • Magnésium oxyde • Magnesio óxido

MgO
Molecular Weight: 40,31
CAS: 1309-48-4
EEC-N: 215-171-9

Magnesium oxide > RS - For chromatography

RS

Description ..... White powder
Identification ..... Positive

Code	Size	Packaging	Notes
459617	1 kg	Plastic bottle	

Magnesium oxide > RPE - For analysis

RPE

Description ..... White powder
Identification ..... Positive
Loss on ignition ..... ≤ 2 %
Assay (complexometric) ..... ≥ 99 %
Chloride ..... ≤ 0.25 %
Silicate ..... ≤ 500 ppm
Sulphat + sulphit (SO4) ..... ≤ 0.25 %
Ca ..... ≤ 0.3 %
Fe ..... ≤ 400 ppm
Na ..... ≤ 0.1 %

Code	Size	Packaging	Notes
459584	100 g	Plastic bottle	
459586	500 g	Plastic bottle	
459587	1 kg	Plastic bottle	

Magnesium oxide heavy

Magnesio ossido pesante • Magnésium oxyde lourd • Magnesio óxido pesado

MgO
Molecular Weight: 40,31
CAS: 1309-48-4
EEC-N: 215-171-9

Magnesium oxide heavy > ERBApharm - According to pharmacopoeia : Ph.Eur.

ERBApharm

Description ..... White powder	Loss on ignition ..... ≤8.0 %	Soluble matter ..... ≤2.0 %	Fe ..... ≤0.07 %
Identification ..... Positive	Chloride ..... ≤0.1 %	Acet.ac.not soluble ma. ..... ≤0.1 %	Assay (complexometric) ....98.0 ÷ 100.5 % Calc.
Appearance of solution .....Conform Ph.Eur.	Heavy metals (Pb) .....≤30 ppm	As ..... ≤4 ppm	
Apparent density .....≥0.25 g/ml	Sulphate ..... ≤1.0 %	Ca ..... ≤1.5 %	

Code	Size	Packaging	Notes
349655	1 kg	Plastic bottle	
349656	5 kg	Plastic jar	
349653	25 kg	Plastic bucket	

Magnesium perchlorate

Magnesio perclorato • Magnsium perchlorate • Magnesio perclorato

$Mg(ClO_4)_2$
Molecular Weight: 223,21
CAS: 10034-81-8
EEC-N: 233-108-3

Classification transport
ONU: 1475
Transport Hazard class: 5.1
Packing group II

Danger
H272-H315-H319-H335
P221-P264-P210a-P271-P304+P340-P305+P351+P338

Magnesium perchlorate > RPE - For analysis

RPE

Description ..... White granules	Water (K.F.) ..... ≤15 %	Alkalinity(Mg oxide) .....≤200 ppm	Nitrate .....≤200 ppm
Identification ..... Positive	Acidity(Perchloric ac.) .....≤500 ppm	Chloride .....≤100 ppm	Ca ..... ≤15 %

Code	Size	Packaging	Notes
422254	100 g	Glass bottle	
422251	250 g	Glass bottle	
422252	1 kg	Glass bottle	

Magnesium peroxide

Magnesio perossido • Magnésium péroxyde • Magnesio peróxido

MgO_2
Molecular Weight: 56,3
CAS: 14452-57-4
EEC-N: 238-438-1

Classification transport
ONU: 1476
Transport Hazard class: 5.1
Packing group II

Danger
H272
P210-P221-P280-P220-P370+P378a-P501a

Magnesium peroxide > RE - Pure

RE

Description ..... White powder Identification ..... Positive Assay (oxidimetric) .....≥15 %

Code	Size	Packaging	Notes
349757	1 kg	Plastic bottle	
349753	25 kg	Drum	

Magnesium phosphate dibasic trihydrate ▶ Magnesium hydrogen phosphate trihydrate

Magnesium stearate

Magnesio stearato • Magnésium stéarate • Magnesio estearato

Synonym:
Stearic acid magnesium salt

$[CH_3(CH_2)_{16}CO_2]_2Mg$
Molecular Weight: 591,27
CAS: 557-04-0
EEC-N: 209-150-3

Magnesium stearate > ERBApharm - Vegetal origin-According to pharmacopoeia : Ph.Eur.-BP-FU-NF

ERBApharm

Description ..... White powder
Identification ..... Positive
Acidity or alkalinity..... Conform Ph.Eur.
Loss on drying ..... ≤ 6.0 %
Stearic acid..... ≥ 40.0 %
Stearic+Palmitic acid ..... ≥ 90.0 %
Chloride..... ≤ 0.1 %
Sulphate ..... ≤ 1.0 %
Cd..... ≤ 3 ppm
Ni..... ≤ 5 ppm
Pb..... ≤ 10 ppm
Assay (magnesium) ..... 4.0 ÷ 5.0 % s.s.
Microbial tests
TAMC ..... ≤ 1000 CFU/g
TYMC ..... ≤ 100 CFU/g
Escherichia coli ..... Absent
Salmonella..... Absent

Code	Size	Packaging	Notes
350032	2.5 kg	Plastic jar	
350035	25 kg	Fibre drum	

Magnesium sulfate anhydrous

Magnesio solfato anidro • Magnésium sulfate anhydre • Magnesio sulfato anhidro

$MgSO_4$
Molecular Weight: 120,36
CAS: 7487-88-9
EEC-N: 231-298-2

Magnesium sulfate anhydrous > RE - Pure - For anhydrification

RE

Appearance ..... White powder
Identification ..... Conform
Water content ..... ≤ 2 % m/m
Assay (on dry) ..... ≥ 98.0 %
Bulk density ..... 1.300 - 1.500 g/ml

Code	Size	Packaging	Notes
P1460012	1 kg	Plastic bottle	
P1460027	5 kg	Plastic jar	
P1460044	25 kg	Plastic bucket	
P1460057	50 kg	Fibre drum	

Magnesium sulfate heptahydrate

Magnesio solfato eptaidrato • Magnésium sulfate heptahydraté • Magnesio sulfato heptahidratado

Synonym:
Epsom salts

$MgSO_4.7H_2O$
Molecular Weight: 246,48
CAS: 10034-99-8
EEC-N: 231-298-2

Magnesium sulfate heptahydrate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description ..... White crystals
Identification ..... Positive
pH sol. 5% at 25° C ..... 5.0 ÷ 8.2
Water-insoluble matter ..... ≤50 ppm
Ammonium..... ≤20 ppm
Chloride..... ≤5 ppm
Nitrate ..... ≤20 ppm
Heavy metals (Pb)..... ≤5 ppm
Ca ..... ≤200 ppm
Fe ..... ≤5 ppm
K..... ≤50 ppm
Mn ..... ≤5 ppm
Na..... ≤50 ppm
Sr..... ≤50 ppm
Assay (complexometric) 98.0 ÷ 102.0 % s.s.
Appearance of solution ..... Conform
Acidity or alkalinity..... Conform
Loss on drying ..... 48.0 ÷ 52.0 %
As ..... ≤2 ppm

Code	Size	Packaging	Notes
459665	100 g	Plastic bottle	
459666	500 g	Plastic bottle	
459667	1 kg	Plastic bottle	
459669	5 kg	Plastic jar	
459662	25 kg	Plastic bucket	

Magnesium sulfate heptahydrate > ERBApharm - According to pharmacopoeia : Ph.Eur.-USP-FU-BP-DAB

ERBApharm

Description ..... White crystalline powder
Identification ..... Positive
Appearance of solution .....Conform Ph.Eur.
Acidity or alkalinity.....Conform Ph.Eur.
pH solution 5% .....5.0 ÷ 9.2
Loss on drying .....48.0 ÷ 52.0 %
Loss on ignition.....40.0 ÷ 52.0 %
Chloride.....≤140 ppm
Heavy metals (Pb).....≤10 ppm
As .....≤2 ppm
Fe .....≤20 ppm
Se .....≤30 ppm
Assay (complexometric)99.0 ÷ 100.5 % s.s.

Code	Size	Packaging	Notes
349852	1 kg	Plastic bottle	
349859	5 kg	Plastic jar	
349851	25 kg	Drum	

Maize starch

Amido di mais • Amidon de maïs • Almidón de maiz

$(C_6H_{10}O_5)n$
CAS: 9005-84-9
EEC-N: 232-686-4

Maize starch > ERBApharm - According to pharmacopoeia : BP-FU-NF-Ph.Eur.-Ph.Franc.

ERBApharm

Description .....White or yellowish powder
Identification ..... Positive
Zolfo diossido.....≤ 50 ppm
Foreingn cellular elem. .....Conform Ph.Eur.
pH at 20° C .....4.0 ÷ 7.0
Loss on drying ..... ≤ 15.0 %
Sulphated ash..... ≤ 0.6 %
Oxidizing substances.....≤ 20 ppm
Fe .....≤ 10 ppm
Microbial tests
TAMC ..... ≤ 1000 CFU/g
TYMC ..... ≤ 100 CFU/g
Escherichia coli .....Absent Ph.Eur.
Salmonella.....Absent Ph. Eur.

Code	Size	Packaging	Notes
313071	1 kg	Plastic bottle	
313072	5 kg	Plastic jar	
313073	25 kg	Plastic bucket	

Malachite green

Verde malachite • Vert de malachite • Verde de malaquita

Synonym:
Basic green 4

$C_{23}H_{25}ClN_2$
Molecular Weight: 364,92
CAS: 569-64-2
EEC-N: 209-322-8

Classification transport
ONU: 3143
Transport Hazard class: 6.1
Packing group III

Danger
H302-H318-H361d-H410
P264-P273-P280i-P305+P351+P338-P308+P313-P330

Malachite green > RS - For microscopy - C.I. 42000

RS

Description ..... Green shining crystals
Identification ..... Positive

Code	Size	Packaging	Notes
491303	25 g	Glass bottle	
491304	100 g	Plastic bottle	

Dye for cytology

Malachite green solution 0.5% in acetic acid anhydrous

Verde malachite soluzione 0.5% in acido acetico anidro •
Vert malachite solution 0.5% dans l'acide acétique anhydre •
Verde de malaquita solución 0.5% en acido acético anhidro

Synonym:
Basic green 4

Classification transport
ONU: 3264

Malachite green solution 0.5% in acetic acid anhydrous > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611050501	1 l	Glass bottle	Ref Ph.Eur 1050501

Maleic acid
Acido maleico • Acide maléique • Acido maleico

Synonym:
cis-Butenedioic acid
Toxilic acid

HOOCCH:CHCOOH
Molecular Weight: 116,07
CAS: 110-16-7
EEC-N: 203-742-5

Classification transport
ONU: 3261
Transport Hazard class: 8
Packing group III

Warning
H302-H315-H319-H317-H335
P264-P271-P304+P340-P305+P351+P338-P330-P337+P313

Maleic acid > ERBApharm - According to pharmacopoeia : BP-Ph.Eur.-USP-NF

ERBApharm

Description ..... White crystalline powder
Identification ..... Positive
Appearance of solution .....Conform Ph.Eur.
Fumaric acid .....Conform Ph.Eur.
Melting point..... 132 ÷ 135 °C
Water (K.F.) ..... ≤2.0 %
Sulphated ash ..... ≤0.1 %
Heavy metals (Pb).....≤10 ppm
Fe .....≤5 ppm
Assay (acidimetric) .....99.0 ÷ 101.0 % s s
Origin (BSE/TSE)..... Synthesis
Residual solvents (Current ICH).....Conform

Code	Size	Packaging	Notes
407266	500 g	Plastic bottle	
407261	5 kg	Plastic jar	
407263	25 kg	Fibre drum	

Maleic anhydride
Anidride maleica • Anhydride maléique • Anhídrido maleico

Synonym:
2,5-Furandione

OCOCH:CHCO
Molecular Weight: 98,06
CAS: 108-31-6
EEC-N: 203-571-6

Classification transport
ONU: 2215
Transport Hazard class: 8
Packing group III

Danger
H302-H314-H334-H317
P264-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338-P342+P311a

Maleic anhydride > RPE - For analysis

RPE

Description .....White flakes
Identification ..... Positive
Melting point..... 52 ÷ 55 ° C
Acido maleico libero .....≤ 0.5 %
Assay (acidimetric) .....≥ 98.5 %

Code	Size	Packaging	Notes
421955	250 g	Plastic bottle	

DL-Malic acid
Acido DL-malico • Acide DL-malique • Acido DL-málico

Synonym:
(±)-2-Hydroxysuccinic acid
DL-Hydroxybutanedioic acid

HOOCCH(OH)CH_2COOH
Molecular Weight: 134,09
CAS: 617-48-1
EEC-N: 210-514-9

Warning
H319
P264-P280-P305+P351+P338-P337+P313

DL-Malic acid > RPE - For analysis

RPE

Description ..... White crystalline powder
Identification ..... Positive
Water-insoluble matter ..... ≤ 0.1 %
Melting point..... 130 ÷ 132 ° C
Water ..... ≤ 0.3 %
Chloride.....≤ 5 ppm
Heavy metals (Pb).....≤ 20 ppm
Sulphated ash..... ≤ 0.05 %
As .....≤ 3 ppm
Pb .....≤ 10 ppm
Assay (acidimetric) ..... ≥ 99.0 %

Code	Size	Packaging	Notes
407314	100 g	Plastic bottle	
407316	500 g	Plastic bottle	

Malonic acid
Acido malonico • Acide malonique • Acido malónico

Synonym:
Propanedioic acid

HOOCCH_2COOH
Molecular Weight: 104,06
CAS: 141-82-2
EEC-N: 205-503-0

Warning
H302-H319
P264-P280i-P305+P351+P338-P330-P337+P313-P301+P312a

Malonic acid > RPE - For analysis

RPE

Description ..... White crystalline powder
Identification ..... Positive
Melting point..... 133 ÷ 136 °C
Chloride.....≤ 100 ppm
Assay (acidimetric) ..... ≥ 98.5 %
Residue on ignition..... ≤ 0.5 %
Sulphate ..... ≤ 0.1 %

Code	Size	Packaging	Notes
407363	50 g	Glass bottle	
407365	250 g	Glass bottle	

Maltose monohydrate
Maltosio monoidrato • Maltose monohydraté • Maltosa monohidrato

Synonym:
4-O-α-D-Glucopyranosyl-D-glucose

$C_{12}H_{22}O_{11}.H_2O$
Molecular Weight: 360,31
CAS: 6363-53-7
EEC-N: 200-716-5

Maltose monohydrate > RPE - For analysis
RPE

Description ..... Whitish powder
Identification ..... Positive
Potere rotat. spec. (C=2; H2O 24h) ..... 130 ± 3 °
Water ..... ≤ 7.5 %
Melting point ..... ca. 120 °C (dec)
Assay ..... ≥ 94.0 %

Code	Size	Packaging	Notes
459863	50 g	Glass bottle	
459865	250 g	Plastic bottle	

DL-Mandelic acid
Acido DL-mandelico • Acide DL-mandélique • Acido DL-mandélico

$C_6H_5CH(OH)COOH$
Molecular Weight: 152,15
CAS: 90-64-2
EEC-N: 202-007-6

DL-Mandelic acid > RE - Pure
RE

Description ..... White crystalline powder
Identification ..... Positive
Melting point ..... 118 ÷ 122 °C
Assay (acidimetric) ..... ≥ 97.5 %

Code	Size	Packaging	Notes
304757	1 kg	Plastic bottle	

L(+)Mandelic acid
Acido L(+)mandelico • Acide L(+)mandélique • Acido L(+)mandélico

Synonym:
(S)-alpha-hydroxyphenylacetic acid

$C_8H_8O_3$
Molecular Weight: 152,15
CAS: 17199-29-0
EEC-N: 241-240-8

L(+)Mandelic acid > RPE - For analysis
RPE

Description ..... White crystalline powder
Identification ..... Positive
Melting point ..... 132 ÷ 134 ° C
Specific optical rotation +153.4 ÷ +155.4 °

Code	Size	Packaging	Notes
407431	25 g	Glass bottle	

Manganese standard solution
Manganese standard soluzione • Manganèse solution standard • Manganeso, solución patrón

Classification transport
ONU: 3264
Transport Hazard class: 8
Packing group II

Danger
H314
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Manganese standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2
RS

Code	Size	Packaging	Notes
615004500	1 l	Plastic bottle	A 100 ppm solution Ref Ph.Eur 5004500
615005800	1 l	Plastic bottle	A 1.000 ppm solution Ref Ph.Eur 5005800

Manganese standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505717	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505718	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid
505719	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Manganese standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
503721	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503725	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
503723	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503727	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Manganese standard solution > RS - Standard solution for AAS

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
507746	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
E497545	100 ml	Glass bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
507488	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
E497541	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Manganese standard solution > RS - NORMEX - Concentrated solution for AAS

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
459911		Plastic vial	conc. 1.000 ppm Matrix : Hydrochloric acid - Volume : 50 ml

Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package

Manganese standard solution > RS - Quality control standard solution for AAS (graphite furnace)

RS

Code	Size	Packaging	Notes
504362	50 ml	Glass bottle	conc. 20 +/- 2 µg/L Matrix : 2% Nitric acid

Manganese electrolytic

Manganese elettrolitico • Manganèse électrolytique • Manganeso electrolítico

Mn
Molecular Weight: 54,94
CAS: 7439-96-5
EEC-N: 231-105-1

Manganese electrolytic > RPE - For analysis

RPE

Description ..... Brown irregular flakes Identification ..... Positive Assay ..... 99.9 ÷ 100.0 %

Code	Size	Packaging	Notes
459965	250 g	Glass bottle	

Manganese (II) acetate tetrahydrate

Manganese acetato oso tetraidrato • Manganèse (II) acétate tetrahydrate • Manganeso (II) acetato tetraidrato

Synonym: *Manganous acetate*

$Mn(CH_3COO)_2.4H_2O$
Molecular Weight: 245,09
CAS: 6156-78-1

Warning
H315-H319-H361-H335
P264-P271-P304+P340-P305+P351+P338-P308+P313-P312a

Manganese (II) acetate tetrahydrate > RPE - For analysis

RPE

Description ..... Pink crystals
Identification ..... Positive
pH sol. 5% at 25° C ..... 6.8 ÷ 8.0
Chloride ..... ≤ 10 ppm
Water-insoluble matter ..... ≤ 50 ppm
Heavy metals (Pb) ..... ≤ 5 ppm
Subst. not ppt. (NH4)2S ..... ≤ 0.2 %
Subst. reducing KMnO4 ..... ≤ 10 ppm (1m)
Sulphate ..... ≤ 50 ppm
Ca ..... ≤ 100 ppm
Cd ..... ≤ 2.5 ppm
Cu ..... ≤ 2.5 ppm
Fe ..... ≤ 20 ppm
Ni ..... ≤ 10 ppm
Pb ..... ≤ 5 ppm
Zn ..... ≤ 2.5 ppm
Assay (complexometric) ..... ≥ 99 %

Code	Size	Packaging	Notes
460005	250 g	Plastic bottle	
460007	1 kg	Plastic bottle	
460001	25 kg	Plastic bucket	

Manganese (II) carbonate

Manganese carbonato oso • Manganèse (II) carbonate • Manganeso (II) carbonato

$MnCO_3.nH_2O$
Molecular Weight: 114,95
CAS: 598-62-9
EEC-N: 209-942-9

Manganese (II) carbonate > RPE - For analysis

RPE

Description ..... Hazel powder
Identification ..... Positive
Alkaline carbonate ..... ≤500 ppm
Chloride ..... ≤50 ppm
HCl-insoluble matter ..... ≤100 ppm
Heavy metals (Pb) ..... ≤50 ppm
Subst. not ppt. (NH4)2S ..... ≤0.7 %
Sulphate ..... ≤50 ppm
Ca ..... ≤0.15 %
Cd ..... ≤10 ppm
Cu ..... ≤10 ppm
Fe ..... ≤50 ppm
Ni ..... ≤20 ppm
Pb ..... ≤10 ppm
Zn ..... ≤10 ppm
Assay (complexometric) .... 42 ÷ 46 % (Mn)

Code	Size	Packaging	Notes
460107	1 kg	Plastic bottle	
460103	25 kg	Drum	

Manganese (II) chloride tetrahydrate

Manganese cloruro oso tetraidrato • Manganèse (II) chlorure tetrahydrate • Manganeso (II) cloruro tetrahidratado

$MnCl_2.4H_2O$
Molecular Weight: 197,91
CAS: 13446-34-9

Warning
H302
P264-P270-P330-P301+P312a-P501a

Manganese (II) chloride tetrahydrate > RPE - For analysis

RPE

Description ..... Pink crystalline powder
Identification ..... Positive
Substances reducing KMnO4 (O). ≤ 0.0005 %
Sulphate ..... ≤ 50 ppm
Ca ..... ≤ 10 ppm
Fe ..... ≤ 5 ppm
Mg ..... ≤ 50 ppm
Pb ..... ≤ 5 ppm
Zn ..... ≤ 10 ppm
Assay ..... ≥ 99 %

Code	Size	Packaging	Notes
460158	100 g	Plastic bottle	
460156	500 g	Plastic bottle	
460159	1 kg	Plastic bottle	

Manganese (II) chloride tetrahydrate > RE - Pure

RE

Description ..... Pink crystals
Identification ..... Positive
Water-insoluble matter ..... ≤500 ppm
Sulphate ..... ≤500 ppm
Fe ..... ≤50 ppm
Assay (complexometric) ..... ≥98 %

Code	Size	Packaging	Notes
351507	1 kg	Plastic bottle	
351508	5 kg	Plastic jar	
351502	25 kg	Plastic bucket	

Manganese (IV) oxide

Manganese biossido • Manganèse (IV) dioxyde • Manganeso (IV) dióxido

Synonym:
Manganese dioxide

MnO_2
Molecular Weight: 86,94
CAS: 1313-13-9
EEC-N: 215-202-6

Warning
H302-H332
P264-P271-P261-P304+P340-P330-P301+P312a

Manganese (IV) oxide > RPE - For analysis

RPE

Description ..... Black powder | Identification ..... Positive | Loss on drying 120° C..... ≤1.5 % | Assay (oxidimetric) ..... ≥90.0 %

Code	Size	Packaging	Notes
460055	250 g	Plastic bottle	
460056	1 kg	Plastic bottle	
460052	25 kg	Plastic bucket	

Manganese (II) sulfate monohydrate

Manganese solfato oso monoidrato • Manganèse (II) sulfate monohydraté • Manganeso (II) sulfato monohidrato

$MnSO_4.H_2O$
Molecular Weight: 162,09
CAS: 10034-96-5
EEC-N: 232-089-9

Classification transport
ONU: 3077
Transport Hazard class: 9
Packing group III

Warning
H373-H411
P273-P260-P314-P391-P501a

Manganese (II) sulfate monohydrate > RPE - For analysis - ACS

RPE

Description ..... Pink powder
Identification ..... Positive
Loss on ignition..... 10.0 ÷ 12.0 %
Water-insoluble matter ..... ≤100 ppm
Subst. reducing KMnO4..... Conform
Chloride..... ≤50 ppm
Heavy metals (Pb)..... ≤20 ppm
Ca..... ≤50 ppm
Fe ..... ≤20 ppm
K..... ≤100 ppm
Mg ..... ≤50 ppm
Na..... ≤500 ppm
Ni..... ≤200 ppm
Zn ..... ≤50 ppm
Assay (complexometric) .... 98.0 ÷ 101.0 %

Code	Size	Packaging	Notes
460305	250 g	Plastic bottle	
460307	1 kg	Plastic bottle	

Manganese (II) sulfate monohydrate > RE - Pure

RE

Description ..... Polvere rosata
Identification ..... Positive
Water-insoluble matter ..... ≤ 500 ppm
Pb ..... ≤ 15 ppm
As ..... ≤ 5 ppm
Assay (complexometric) ..... ≥ 98 %

Code	Size	Packaging	Notes
352007	1 kg	Plastic bottle	
352008	5 kg	Plastic jar	
352002	25 kg	Drum	

D-Mannitol

D-Mannitolo • D-Mannitol • D-Manitol

Synonym:
Mannite

$CH_2OH(CHOH)_4CH_2OH$
Molecular Weight: 182,17
CAS: 69-65-8
EEC-N: 200-711-8

D-Mannitol > RPE - For analysis

RPE

Description .....White crystal. powder
Identification ..... Positive
Melting point..... 166.0 ÷ 170.0 ° C
Specific optical rotation+23.00 ÷ +25.00 °
Loss on drying ..... ≤0.1 %
Acidity (acetic acid)..... ≤50 ppm
Chloride..... ≤10 ppm
Water-insoluble matter ..... ≤100 ppm
Heavy metals (Pb)..... ≤5 ppm
Residue on ignition..... ≤100 ppm
Sulphate..... ≤100 ppm
Red.ing sugars(Glucose) ..... ≤0.1 %
Totol sugars(Glucose)..... ≤0.3 %
As ..... ≤1 ppm
Ca..... ≤40 ppm
Fe ..... ≤10 ppm
Assay (oxidimetric) ..... ≥98.5 %

Code	Size	Packaging	Notes
460355	250 g	Plastic bottle	
460357	1 kg	Plastic bottle	
460352	5 kg	Plastic jar	
460353	25 kg	Plastic bucket	

D-Mannitol > ERBApharm - According to pharmacopoeia : Ph.Eur.-USP-FU

ERBApharm

Description ..... White crystalline powder
Identification ..... Positive
Appearance of solution .....Conform Ph.Eur.
Acidity ..... Conform USP-NF
Melting point..... 165 ÷ 170 °C
Heavy metals (Pb).....≤ 5 ppm

Loss on drying ..... ≤ 0.3 %
Chloride.....≤ 70 ppm
Sulphate .....≤ 100 ppm
As .....≤ 1 ppm
Ni .....≤ 1 ppm
Pb .....≤ 0.5 ppm

Specific optical rotation at 25°C (on dr+137 ÷ +145 °
Assay (anhydrous) (HPLC) .97.0 ÷ 102.0 %
Reducing sugar ..... ≤ 0.1 %
Sostanze analoghe (HPLC) .Conform Ph.Eur.
Conductivity ..... ≤ 20 µS.cm-1

Microbial tests
TAMC ..... ≤ 1000 CFU/g
TYMC ..... ≤ 100 CFU/g
Escherichia coli ..... Absent Ph. Eur.
Salmonella..... Absent Ph. Eur.
Residue on ignition..... ≤ 100 ppm

Code	Size	Packaging	Notes
352051	1 kg	Plastic bottle	
352052	5 kg	Plastic jar	
352053	25 kg	Plastic bucket	

Mascagnite ▶ Ammonium sulfate

May Grünwald reagent

May Grünwald reattivo • Réactif de May Grünwald • May Grünwald reactivo

Classification transport
ONU: 1992
Transport Hazard class: 3
Packing group II

Danger
H225-H301-H331-H370
P210-P241-P264-P303+P361+P353-P304+P340-P403+P235

May Grünwald reagent > RS - For hematology

RS

Description .....Blue clear liquid
Identification ..... Positive

pH (20% in water) .....5.4 ÷ 7.5
E 1% / 1 cm a 522 nm.....130 ÷ 180

E 1% / 1 cm a 552 nm.....30 ÷ 40
E 1% / 1 cm a 650 nm.....250 ÷ 350

Functionality .....Conform

Code	Size	Packaging	Notes
460584	100 ml	Plastic bottle	
E460582	6 x 100 ml	Plastic bottle	
460586	500 ml	Plastic bottle	
E460583	6 x 500 ml	Plastic bottle	
460581	2.5 l	Plastic bottle	
E460585	4 x 2.5 l	Plastic bottle	

CE IVD ***Dye according to Pappenheim hematology***

Mayer's reagent

Mayer reattivo soluzione in acqua • Réactif de Mayer • Mayer reactivo solución en agua

Classification transport
ONU: 2024
Transport Hazard class: 6.1
Packing group II

Danger
H300-H315-H319-H334-H317-H341-H373-H412
P264-P273-P280-P304+P340-P305+P351+P338-P342+P311a

Mayer's reagent > RS - For alkaloids detection

RS

Description ..... Yellow clear liquid
Identification ..... Positive

Code	Size	Packaging	Notes
460502	500 ml	Plastic bottle	

L-Menthol
L-Mentolo • L-Menthol • L-Mentol

Synonym:
5-Methyl-2-(1-methylethyl)cyclohexanol

$C_{10}H_{19}OH$
Molecular Weight: 156,27
CAS: 2216-51-5
EEC-N: 218-690-9

Warning
H319
P264-P280i-P305+P351+P338-P337+P313

L-Menthol > ERBApharm - According to pharmacopoeia : USP
ERBApharm

Description ..... Colourless crystals
Identification ..... Positive
Specific optical rotation..... -51 ÷ -45 °
Melting point..... 41 ÷ 44 °C
Nonvolatil residue..... ≤ 0.05 %
Related compounds..... Conform USP-NF
Total impurities (GC) ..... ≤ 2.0 %
Individual impurities (GC) ..... ≤ 0.3 %

Code	Size	Packaging	Notes
352103	50 g	Glass bottle	
352106	500 g	Plastic bottle	

2-Mercaptoethanol
2-Mercaptoetanolo • 2-Mercaptoéthanol • 2-Mercaptoetanol

Synonym:
Thioethylene glycol
2-Hydroxyethylmercaptan

$HSCH_2CH_2OH$
Molecular Weight: 78,13
CAS: 60-24-2
EEC-N: 200-464-6

Classification transport
ONU: 1750
Transport Hazard class: 6.1
Packing group II

Danger
H301-H310-H314-H411
P264-P273-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

2-Mercaptoethanol > RPE - For analysis
RPE

Description ..... Clear colourless liquid
Identification ..... Positive
Refractive index at 20° C..... 1.4990 ÷ 1.5020
Water .....≤ 0.5 %
Assay (GLC) .....≥ 98.5 %

Code	Size	Packaging	Notes
460691	10 ml	Glass bottle	

Mercuric bromide paper
Carta al bromuro mercurico • Papier bromure mercurique • Mercurio bromuro papel

Classification transport
ONU: 1935
Transport Hazard class: 6.1
Packing group III

Warning
H302-H332-H373-H411
P264-P273-P271-P304+P340-P314-P330

Mercuric bromide paper > RS - For analysis according to Ph. Eur. Chap. 4.1.1
RS

Code	Size	Packaging	Notes
611052101	50 pc	Glass bottle	Ref Ph.Eur 1052101

Storage: in a glass-stoppered container wrapped with black paper

Mercury standard solution
Mercurio standard soluzione • Mercure solution standard • Mercurio, solución patrón

Mercury standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2
RS

Code	Size	Packaging	Notes
615001901	100 ml	Plastic bottle	A 10 ppm solution : to dilute according to Ref Ph.Eur 5001901
615001900	1 l	Plastic bottle	A 1000 ppm solution Ref Ph.Eur 5001900

Mercury standard solution > RS - Standard solution for ICP-MS
RS

Code	Size	Packaging	Notes
505652	100 ml	Plastic bottle	conc. 10 ppm Matrix : Hydrochloric acid
505655	100 ml	Plastic bottle	conc. 100 ppm Matrix : Hydrochloric acid
506918	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid
505654	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Mercury standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
503631	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503635	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
503633	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503637	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Mercury standard solution > RS - Standard solution for AAS

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
497555	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
503640	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
507489	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
497551	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Mercury standard solution > RS - NORMEX - Concentrated solution for AAS

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
460741		Plastic vial	conc. 1.000 ppm Matrix : Nitric acid - Volume : 50 ml

Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package

Mercury standard solution > RS - Quality control standard solution for AAS (graphite furnace)

RS

Code	Size	Packaging	Notes
504370	100 ml	Plastic bottle	conc. 500 +/- 30 µg/L Matrix : 2% Nitric acid

Mercury (I) chloride

di-Mercurio dicloruro • Mercure (I) chlorure • Mercure (I) chlorure

Synonym:
Calomel
Mercurous chloride

Hg_2Cl_2
Molecular Weight: 472,09
CAS: 10112-91-1
EEC-N: 233-307-5

Classification transport
ONU: 3077
Transport Hazard class: 9
Packing group III

Warning
H302-H315-H319-H335-H410
P264-P273-P271-P304+P340-P305+P351+P338-P330

Mercury (I) chloride > RE - Pure

RE

Description .....White crystalline powder Residue on ignition.....≤ 0.02 % Assay .....≥ 99.5 %
Identification ..... Positive Sulphate.....≤ 0.01 %

Code	Size	Packaging	Notes
352654	100 g	Glass bottle	
352657	1 kg	Plastic bottle	

Mercury (II) chloride

Mercurio dicloruro • Mercure (II) chlorure • Mercurio (II) dicloruro

Synonym:
Mercuric chloride

$HgCl_2$
Molecular Weight: 271.50
CAS: 7487-94-7
EEC-N: 231-299-8

Classification transport
ONU: 1624
Transport Hazard class: 6.1
Packing group II

Danger
H300-H314-H341-H361f-H372-H410
P264-P273-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Mercury (II) chloride > RPE - For analysis - ISO - ACS - Reag.Ph.Eur. - Reag.USP

RPE

Description ..... Pezzi bianchi Residue after reduction.....≤200 ppm Appearance of solution .....Conform Loss on drying ..... ≤1.0 %
Identification .....Positive Fe .....≤20 ppm Acidity or alkalinity.....Conform
Solution in ethyl ether.....Conform Assay (complexometric)99.5 ÷ 100.5 % s.s. Mercurous chloride .....Conform

Code	Size	Packaging	Notes
461003	50 g	Glass bottle	

Mercury chloride solution 54 g/l

Mercurio cloruro soluzione 54 g/l • Mercure (II) chlorure solution • Mercurio dicloruro solución 54 g/l

Synonym: *Mercuric chloride*

Classification transport
ONU: 2024
Transport Hazard class: 6.1
Packing group II

Danger
H301-H310-H318-H341-H361f-H373-H400-H411
P264-P273-P280-P305+P351+P338-P301+P310a-P308+P313

Mercury chloride solution 54 g/l > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611052201	100 ml	Plastic bottle	Ref Ph.Eur 1052201

Mercury (II) iodide

Mercurio ioduro ico • Mercure (II) iodure • Mercurio (II) yoduro

Synonym: *Mercuric iodide red*

HgI_2
Molecular Weight: 454,45
CAS: 7774-29-0
EEC-N: 231-873-8

Classification transport
ONU: 1638
Transport Hazard class: 6.1
Packing group II

Danger
H300-H310-H330-H373-H410
P264-P273-P271-P284-P304+P340-P301+P310a

Mercury (II) iodide > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description ..... Red - brick powder
Identification ..... Positive
Solub. in KI solution ..... Conform
Soluble mercury salts ..... ≤500 ppm
Mercurous compounds ..... ≤0.1 %
Assay (oxidimetric) ..... ≥99.0 % s.s.

Code	Size	Packaging	Notes
461105	250 g	Glass bottle	

Mercury (II) oxide red

Mercurio ossido rosso • Mercure (II) oxyde rouge • Mercurio (II) óxido rojo

Synonym: *Mercuric oxide*

HgO
Molecular Weight: 216.59
CAS: 21908-53-2
EEC-N: 244-654-7

Classification transport
ONU: 1641
Transport Hazard class: 6.1
Packing group II

Danger
H300-H310-H330-H373-H410
P264-P273-P271-P284-P304+P340-P301+P310a

Mercury (II) oxide red > RPE - For analysis - ACS

RPE

Description ..... Red powder
Identification ..... Positive
Diluted HCl-ins. matter ..... ≤ 0.03 %
Chloride ..... ≤ 250 ppm
Sulphate ..... ≤ 150 ppm
Nitrogen compounds (N) ..... ≤ 50 ppm
Residue after reduction ..... ≤ 0.025 %
Fe ..... ≤50 ppm
Assay (complexometric) ..... ≥ 99.0 %

Code	Size	Packaging	Notes
461325	250 g	Glass bottle	

Mercury (II) sulfate

Mercurio solfato ico • Mercure (II) sulfate • Mercurio (II) sulfato

Synonym: *Mercuric sulfate*

$HgSO_4$
Molecular Weight: 296,65
CAS: 7783-35-9
EEC-N: 231-992-5

Classification transport
ONU: 1645
Transport Hazard class: 6.1
Packing group II

Danger
H300-H310-H330-H373-H410
P264-P273-P271-P284-P304+P340-P301+P310a

Mercury (II) sulfate > RPE - For analysis - ACS

RPE

Description ..... White powder or yellow
Identification ..... Positive
Chloride ..... ≤30 ppm
Residue on ignition ..... ≤200 ppm
Mercurous compounds ..... ≤0.15 %
Nitrate ..... Conform
Fe ..... ≤50 ppm
Assay (oxidimetric) ..... ≥98.0 %

Code	Size	Packaging	Notes
461405	250 g	Glass bottle	

Mercury sulfate solution

Mercurio solfato soluzione • Mercure (II) sulfate solution • Mercurio sulfato solución

Synonym:
Mercuric sulfate

Classification transport
ONU: 2922
Transport Hazard class: 8
Packing group II

Danger
H302-H331-H314-H318-H373-H411
P264-P273-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Mercury sulfate solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1 — RS

Code	Size	Packaging	Notes
611052600	100 ml	Glass bottle	Ref Ph.Eur 1052600

Metanil yellow

Giallo metanile • Jaune de méthanyle • Amarillo de metanilo

Synonym:
3-(4-Anilinophenylazo)benzenesulfonic acid sodium salt
Acid yellow 36

$C_{18}H_{14}N_3NaO_3S$
Molecular Weight: 375,38
CAS: 587-98-4
EEC-N: 209-608-2

Warning
H312-H332
P271-P280-P261-P304+P340-P312a-P302+P352a

Metanil yellow > RPE - For analysis - C.I. 13065 — RPE

Description ..... Polvere giallo-marrone
Identification ..... Positive
pH range ..... 1.2 - 2.3
Loss on drying ..... ≤5 %
Colour change..... red-yellow

Code	Size	Packaging	Notes
453542	25 g	Glass bottle	

Acid-base indicator (pH 1.2 ÷ 2.3)

Metaphosphoric acid

Acido metafosforico • Acide métaphosphorique • Acido metafosfórico

Synonym:
meta-Phosphoric acid

HPO_3
Molecular Weight: 79,98
CAS: 37267-86-0

Classification transport
ONU: 3261
Transport Hazard class: 8
Packing group III

Danger
H314
P264-P260h-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Metaphosphoric acid > RPE - For analysis — RPE

Description Whitish semitransparent pieces
Identification ..... Positive
Chloride ..... ≤20 ppm
Heavy metals (Pb) ..... ≤10 ppm
Nitrate ..... ≤10 ppm
Subst. reducing KMnO4 ..... ≤100 ppm (5m)
Sulphate ..... ≤10 ppm
As ..... ≤1 ppm
Fe ..... ≤100 ppm
Pb ..... ≤10 ppm
Assay (acidimetric) ..... 40 ÷ 50 %
Stabilizer(NaPO3) ..... 50 ÷ 60 %

Code	Size	Packaging	Notes
407465	250 g	Plastic bottle	
407467	1 kg	Plastic bottle	

Methanesulfonic acid

Acido metansolfonico • Acide méthanesulfonique • Acido metanosulfónico

CH_3SO_3H
Molecular Weight: 96,11
CAS: 75-75-2
EEC-N: 200-898-6

Classification transport
ONU: 2586
Transport Hazard class: 8
Packing group III

Danger
H314
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Methanesulfonic acid > RE - Pure — RE

Description ..... Colourless to yellow liquid
Identification ..... Positive
Density at 20° C ..... 1.47 ÷ 1.48
Assay (acidimetric) ..... ≥99 %

Code	Size	Packaging	Notes
407481	250 ml	Glass bottle	
407483	1 l	Glass bottle	

Methanol

Metanolo • Méthanol • Metanol

Synonym:
Methyl alcohol

CH_3OH
Molecular Weight: 32,04
CAS: 67-56-1
EEC-N: 200-659-6

Classification transport
ONU: 1230
Transport Hazard class: 3
Packing group II

Danger
H225-H301-H311-H331-H370
P210-P241-P264-P303+P361+P353-P304+P340-P403+P235

Methanol > RS - For UHPLC-MS

RS

Description ..... Clear colourless liquid
Colour ..... ≤ 5 APHA
Identification (I.R.)..... Positive
Refractive index at 20°C..1.3270 - 1.3300
Residue on evaporation .....≤ 1 ppm
Acidity .....≤ 0.0003 meq/g
Alkalinity.....≤ 0.00006 meq/g
Assay (CPG) ..... ≥ 99.99 %
Water (K.F.) .....≤ 200 ppm

Transmittance
At 210 nm ..... ≥ 40 %
At 225 nm ..... ≥ 70 %
At 230 nm ..... ≥ 80 %
≥ 260 nm ..... ≥ 98 %

Fluorescence (quinine)
At 254 nm .....≤ 1 ppb
At 365 nm .....≤ 1 ppb

UHPLC gradient peak
At 220 nm ..... ≤ 4 mAU
At 235 nm ..... ≤ 2 mAU
Drift at 220 nm ..... ≤ 30 mAU
Drift at 235 nm ..... ≤ 10 mAU
Sensitive Impurities (reserpine).....≤ 30 ppb

Metals compounds
Al .....≤ 20 ppb
Fe .....≤ 20 ppb
Na.....≤ 50 ppb
Ca.....≤ 50 ppb
Mg .....≤ 20 ppb
K.....≤ 50 ppb

Code	Size	Packaging	Notes
414941	1 l	Glass bottle	
414942	2.5 l	Glass bottle	

Methanol > RS - For LC/MS

RS

Description ..... Clear colourless liquid
Colour ..... ≤ 10 APHA
Identification (I.R.).....Conform
Refractive index at 20°C.....1.327 ÷ 1.331
Water (K.F.) .....≤ 200 ppm
Residue on evaporation .....≤ 2 ppm
Acidity .....≤ 0.0003 meq/g
Alkalinity.....≤ 0.00006 meq/g
Assay (GLC) ..... ≥ 99.95 %

Transmission UV (1cm, ref water)
At 210 nm ..... ≥ 30 %
At 225 nm ..... ≥ 65 %
At 235 nm ..... ≥ 85 %
At 250 nm ..... ≥ 95 %
≥ 260 nm ..... ≥ 98 %

Fluorescence (quinine)
At 254 nm .....≤ 1 ppb
At 365 nm .....≤ 1 ppb

HPLC gradient
Test LC-MS TIC (50-2000m/z) ESI (+)
Sensitive Impurities (reserpine).....≤ 50 ppb

Metals compounds
Al .....≤ 50 ppb
Fe .....≤ 50 ppb
Na.....≤ 50 ppb
Ca.....≤ 50 ppb
Mg .....≤ 50 ppb
K.....≤ 50 ppb

Code	Size	Packaging	Notes
414831	1 l	Glass bottle	
414832	2.5 l	Glass bottle	

Filtered through 0.1 micron membrane.

Methanol > RS - For HPLC - GOLD - Ultragradient grade

RS

Description ..... Clear liquid
Identification ..... Positive
Colour (APHA) ..... ≤ 10
Density at 20°C .....0.7910 ÷ 0.7930
Refractive index at 20°C.1.3270 ÷ 1.3300
Distillation range .....64.1 ÷ 65.1 °C
Water (K.F.) ..... ≤ 0.02 %
Residue on evaporation .....≤ 5 ppm
Carbonyle compounds (CH3COCH3) ... ≤ 20 ppm
Substances reducing KMnO4 (O)...≤ 2 ppm
Acidity .....≤ 0.0003 meq/g
Alcalinity.....≤ 0.00006 meq/g
Ethanol .....≤ 50 ppm
Assay (GLC) ..... ≥ 99.9 %

Fluorescence
at 254 nm .....≤ 1 ppb
at 365 nm .....≤ 1 ppb

Trasmittance
at 210 nm ..... ≥ 30 %
at 220 nm ..... ≥ 55 %
at 225 nm ..... ≥ 65 %
at 235 nm ..... ≥ 85 %
at 240 nm ..... ≥ 90 %
at 250 nm ..... ≥ 95 %
at 260 nm ..... ≥ 98 %

Functionality for HPLC
HPLC Gradient ..... Passed test

Code	Size	Packaging	Notes
412721	1 l	Glass bottle	
412722	2.5 l	Glass bottle	
412724	4 l	Glass bottle	
412725	5 l	Aluminium can	

Filtered at 0.2 micron

Methanol > RS - For HPLC PLUS Gradient grade

RS

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 20° C .....0.7917 ÷ 0.7921
Refractive index at 20°C.1.3278 ÷ 1.3298
Boiling point.....64.1 ÷ 65.1 ° C
Water (K.F.) ..... ≤0.02 %
Residue on evaporation .....≤5 ppm
Acidity .....≤0.0005 meq/g
Alcalinity.....≤0.0002 meq/g
Assay (GLC) ..... ≥99.9 %

Fluorescence
at 254 nm .....≤1 ppb
at 365 nm .....≤1 ppb

U.V. Transmittance
at 210 nm ..... ≥30 %
at 220 nm ..... ≥50 %
at 235 nm ..... ≥80 %
at 260 nm ..... ≥98 %

Carbonyl compounds (CO).....≤ 20 ppm
Ethyl alcohol .....≤ 200 ppm

HPLC Gradient

Code	Size	Packaging	Notes
412381	1 l	Glass bottle	
412383	2.5 l	Glass bottle	

Filtered at 0.2 micron.

Methanol > RS - For HPLC Isocratic grade - ACS - Reag.Ph.Eur R2 - Reag.USP

RS

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 20° C ..... 0.791 ÷ 0.793
Refractive index at 20°C . 1.3278 ÷ 1.3298
Boiling point ..... 64 ÷ 65 °C
Residue on evaporation ..... ≤ 5 ppm
Water (K.F.) ..... ≤ 0.05 %
Acidity ..... ≤ 0.0005 meq/g
Alcalinity ..... ≤ 0.0002 meq/g
Substances darkened by H2SO4 ... Conform
Subs. reducing KMnO4 ..... Conform
Solubility in water ..... Conform
Carbonyl compounds (CO) ..... ≤ 0.001 %
Absorbance ACS ..... Conform
HPLC Gradient (ACS) ..... Conform
Assay (GLC) ..... ≥ 99.9 %
U.V. Transmittance
at 210 nm ..... ≥ 20 %
at 235 nm ..... ≥ 80 %
at 260 nm ..... ≥ 98 %
Absorbance
At 225 nm ..... ≤ 0.17 AU

Code	Size	Packaging	Notes
412531	1 l	Glass bottle PVC coated	
412533	1 l	Glass bottle	
412532	2.5 l	Glass bottle	
412535	2.5 l	Glass bottle PVC coated	

Methanol > RS - For HPLC - Isocratic Grade

RS

Description ..... Clear colourless liquid
Refractive index at 20°C . 1.3278 ÷ 1.3298
Boiling point ..... 63.6 ÷ 65.6 °C
Assay (GC) ..... ≥ 99.9 %
Acidity (Formic Ac) ..... ≤20 ppm
Residue on evaporation ..... ≤ 10 ppm
Water (KF) ..... ≤ 500 ppm
Transmittance UV
Transmittance UV at 210 nm ..... ≥20 %
Transmittance UV at 235 nm ..... ≥ 80 %
Transmittance UV at 260 nm ..... ≥ 98 %
Density d20/20 ..... 0.791 - 0.793

Code	Size	Packaging	Notes
525101	1 l	Glass bottle	
525102	2.5 l	Glass bottle	

Methanol > RS - ATRASOL - For trace analysis, Suitable for Volatile chlorinated compounds a

RS

Appearance ..... Clear colourless liquid
Refractive index at 20°C ..... 1.327 - 1.331
Water content (K.F.) ..... ≤ 300 mg/Kg
Colour ..... ≤ 5 Hazen
Non volatile residue ..... ≤ 2 mg/Kg
Assay (GC) ..... ≥ 99.98 %
Free alkali (as NH3) ..... ≤ 1 mg/Kg
Free acid (as HCOOH) ..... ≤ 10 mg/Kg
GC (FID) - NC Atrasol ..... Conform
GC-ECD.Individual peak (Lindane) .. ≤ 2 ng/l
Retention time trichlorobenzene to mirex
GC-FID.Individ. peak (hexadecane) . ≤ 5 µg/l
Retention time range over toluène
GC-ECD.Individual peak (CCl4) ..... ≤ 1 µg/l
Ret.time dichloromethane- trichloro-benz.

Code	Size	Packaging	Notes
P0933216	1 l	Glass bottle	
P0933221	2.5 l	Glass bottle	

Methanol > RS - PESTIPUR - For pesticide analysis

RS

Refractive index at 20°C ..... 1.327 - 1.331
Description ..... Clear colourless liquid
Identification ..... Positive
Colour ..... ≤ 10 hazen
Assay (GC) ..... ≥ 99.9 %
Water ..... ≤ 0.05 %
Free acids (HCOOH) ..... ≤ 10 ppm
Free alkalies (NH3) ..... ≤ 1 ppm
Not volatile residue ..... ≤ 5 ppm
GC-ECD.Individual peak (Lindane) ..... ≤ 3 ng/l
Retention time trichlorobenzene to mirex
GC-NPD.Individual peak (Ethylparathion) ..... ≤ 3 ng/l
Assay (GLC) ..... ≥ 99.9 %
Retention time Atrazin to Coumaphos

Code	Size	Packaging	Notes
414930	1 l	Glass bottle	
414932	2.5 l	Glass bottle	

Methanol > RS - SPECTROSOL - For optical spectroscopy

RS

Description ..... Clear liquid
Colour (APHA) ..... ≤10
Identification ..... Positive
Density at 20° C ..... 0.791 ÷ 0.793
Refractive index at 20°C ..... 1.3280 ÷ 1.3296
Boiling point ..... 64.1 ÷ 65.1 ° C
Water (K.F.) ..... ≤300 ppm
Residue on evaporation ..... ≤5 ppm
Acidity ..... ≤0.0005 meq/g
Alcalinity ..... ≤0.0002 meq/g
Assay (GLC) ..... ≥99.9 %
Fluorescence
at 254 nm ..... ≤2 ppb
at 365 nm ..... ≤2 ppb
U.V. Transmittance
Ethanol ..... ≤ 200 mg/Kg
at 205 nm ..... ≥10 %
at 220 nm ..... ≥50 %
at 230 nm ..... ≥75 %
at 240 nm ..... ≥90 %
at 260 nm ..... ≥98 %
Nessler test ..... Conform
Ethyl alcohol ..... ≤ 200 ppm
Carbonyl compounds (CO) ..... ≤ 20 ppm

Code	Size	Packaging	Notes
414902	1 l	Glass bottle	
414903	2.5 l	Glass bottle	

Methanol > RS - Anhydrous - For analysis

RS

Description	Clear liquid	Water content (K.F.)	≤ 200 mg/Kg	Carbonyl compounds (as CH3COCH3)	≤ 20 mg/Kg
Refractive index at 20°C	1.327 - 1.331	Residue on evaporation	≤ 0.001 %	Ethanol	≤ 100 mg/Kg
Colour (APHA)	≤ 10	Free acid (as HCOOH)	≤ 10 mg/Kg	KMnO4 reducing subst. (as O)	≤ 2 mg/Kg
Acidity	≤ 0.002 %	Assay (GLC)	≥ 99.9 %		
Identification (IR)	Conform	Free alkali (as NH3)	≤ 1 mg/Kg		

Code	Size	Packaging	Notes
P0931010	200 ml	Bottle with septum	
414981	1 l	Glass bottle	
P0931016	1 l	Glass bottle	
P0931021	2.5 l	Glass bottle	

Methanol > RS - VLSI For electronic use

RS

Code	Size	Packaging	Notes
527641	1 l	Plastic bottle	
527640	2.5 l	Glass bottle	

For specifications, contact our customer service for a certificate of analysis

Methanol > RS - RSE - For electronic use

RS

Description	Clear liquid	Chloride	≤0.2 ppm	Ca	≤0.5 ppm	Ni	≤0.01 ppm
Colour (APHA)	≤10	Carbonyl Compounds (CO)	≤5 ppm	Cd	≤0.005 ppm	Pb	≤0.01 ppm
Identification	Positive	Phosphate	≤0.5 ppm	Co	≤0.01 ppm	Pt	≤0.05 ppm
Water miscibility	Conform	Heavy metals (Pb)	≤0.2 ppm	Cr	≤0.01 ppm	Sb	≤0.01 ppm
Ready carbonizable substances	Conform	Subst. reducing KMnO4	≤2.5 ppm	Cu	≤0.01 ppm	Sn	≤0.02 ppm
Assay (GLC)	≥99.9 %	Total sulphur	≤1 ppm	Fe	≤0.1 ppm	Sr	≤0.02 ppm
Resistivity	≥0.5 Mohm.cm	Ag	≤0.2 ppm	Ga	≤0.02 ppm	Ti	≤0.05 ppm
Density at 20° C	0.791 ÷ 0.793	Al	≤0.05 ppm	In	≤0.02 ppm	Tl	≤0.05 ppm
Boiling point	64.1 ÷ 65.1 ° C	As	≤0.01 ppm	K	≤0.1 ppm	V	≤0.05 ppm
Water (K.F.)	≤500 ppm	Au	≤0.05 ppm	Li	≤0.02 ppm	Zn	≤0.01 ppm
Residue on evaporation	≤10 ppm	B	≤0.01 ppm	Mg	≤0.1 ppm	Zr	≤0.05 ppm
Acidity (formic acid)	≤15 ppm	Ba	≤0.1 ppm	Mn	≤0.01 ppm		
Alcalinity (NH3)	≤1 ppm	Be	≤0.02 ppm	Mo	≤0.05 ppm		
Ethyl alcohol	≤200 ppm	Bi	≤0.02 ppm	Na	≤0.5 ppm		

Code	Size	Packaging	Notes
414917	1 l	Glass bottle	
414914	2.5 l	Glass bottle	

Methanol > RS - MOS For electronic use

RS

Description	Clear liquid	Chloride	≤0.2 ppm	Ca	≤0.5 ppm	Ni	≤0.01 ppm
Colour (APHA)	≤10	Carbonyl Compounds (CO)	≤5 ppm	Cd	≤0.005 ppm	Pb	≤0.01 ppm
Identification	Positive	Phosphate	≤0.5 ppm	Co	≤0.01 ppm	Pt	≤0.05 ppm
Water miscibility	Conform	Heavy metals (Pb)	≤0.2 ppm	Cr	≤0.01 ppm	Sb	≤0.01 ppm
Ready carbonizable substances	Conform	Subst. reducing KMnO4	≤2.5 ppm	Cu	≤0.01 ppm	Sn	≤0.02 ppm
Assay (GLC)	≥99.9 %	Total sulphur	≤1 ppm	Fe	≤0.1 ppm	Sr	≤0.02 ppm
Resistivity	≥0.5 Mohm.cm	Ag	≤0.2 ppm	Ga	≤0.02 ppm	Ti	≤0.05 ppm
Density at 20° C	0.791 ÷ 0.793	Al	≤0.05 ppm	In	≤0.02 ppm	Tl	≤0.05 ppm
Boiling point	64.1 ÷ 65.1 ° C	As	≤0.01 ppm	K	≤0.1 ppm	V	≤0.05 ppm
Water (K.F.)	≤0.05 %	Au	≤0.05 ppm	Li	≤0.02 ppm	Zn	≤0.01 ppm
Residue on evaporation	≤10 ppm	B	≤0.01 ppm	Mg	≤0.1 ppm	Zr	≤0.05 ppm
Acidity (formic acid)	≤15 ppm	Ba	≤0.1 ppm	Mn	≤0.01 ppm		
Alcalinity (NH3)	≤1 ppm	Be	≤0.02 ppm	Mo	≤0.05 ppm		
Ethyl alcohol	≤200 ppm	Bi	≤0.02 ppm	Na	≤0.5 ppm		

Code	Size	Packaging	Notes
414822	1 l	Glass bottle	
414821	2.5 l	Glass bottle	

Methanol > RS - For titration according to Karl Fischer

RS

Description	Clear colourless liquid	Density at 20° C	0.791 ÷ 0.793	Assay (GLC)	≥99.9 %
Identification	Positive	Water (K.F.)	≤0.03 %		

Code	Size	Packaging	Notes
414881	1 l	Glass bottle	
414883	2.5 l	Glass bottle	

Methanol > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description ..... Clear liquid
Colour (APHA) ..... ≤10
Identification (I.R.) ..... Conform
Water miscib. (15:40) ..... Complete
Ready carbonizable substances ..... Conform
Density at 20° C ..... 0.791 ÷ 0.793
Refractive index at 20°C . 1.3280 ÷ 1.3296
Boiling point ..... 64 ÷ 65 ° C
Water (K.F.) ..... ≤300 ppm
Residue on evaporation ..... ≤10 ppm
Acidity ..... ≤ 0.0003 meq/g
Alkalinity ..... ≤ 0.00006 meq/g
Ethyl alcohol ..... ≤100 ppm
Chloride ..... ≤0.5 ppm
Carbonyl Compounds (CO) ..... ≤10 ppm
Heavy metals (Pb) ..... ≤0.5 ppm
Subst. reducing KMnO4 ..... ≤2 ppm
Al ..... ≤0.5 ppm
B ..... ≤0.02 ppm
Ba ..... ≤0.1 ppm
Ca ..... ≤0.5 ppm
Cd ..... ≤0.05 ppm
Co ..... ≤0.01 ppm
Cr ..... ≤0.02 ppm
Cu ..... ≤0.01 ppm
Fe ..... ≤0.1 ppm
Mg ..... ≤0.1 ppm
Mn ..... ≤0.01 ppm
Ni ..... ≤0.01 ppm
Pb ..... ≤0.01 ppm
Sn ..... ≤0.1 ppm
Zn ..... ≤0.1 ppm
Assay (GLC) ..... ≥99.9 %
Nessler test ..... Conform

Code	Size	Packaging	Notes
414814	1 l	Glass bottle	
414819	1 l	Plastic bottle	
414815	2.5 l	Plastic bottle	
414816	2.5 l	Glass bottle	
524102	5 l	Plastic tank	
524103	5 l	Metal tank	
414818	10 l	Plastic tank	
414813	25 l	Plastic tank	
414817	200 l	Metal drum	

Methanol > RPE - Anhydrous - For analysis

RPE

Description ..... Clear liquid
Colour (APHA) ..... ≤10
Identification ..... Positive
Water miscib. (15:40) ..... Complete
Ready carbonizable substances ..... Conform
Density at 20° C ..... 0.791 ÷ 0.793
Refractive index at 20°C . 1.3280 ÷ 1.3297
Boiling point ..... 64.1 ÷ 65.1 ° C
Water (K.F.) ..... ≤0.01 %
Residue on evaporation ..... ≤10 ppm
Acidity (formic acid) ..... ≤15 ppm
Alcalinity (NH3) ..... ≤1 ppm
Ethyl alcohol ..... ≤200 ppm
Carbonyl Compounds (CO) ..... ≤5 ppm
Heavy metals (Pb) ..... ≤0.5 ppm
Subst. reducing KMnO4 ..... ≤3 ppm
Cu ..... ≤0.01 ppm
Ni ..... ≤0.01 ppm
Assay (GLC) ..... ≥99.9 %
Nessler test ..... Conform

Code	Size	Packaging	Notes
414854	1 l	Glass bottle	
414855	2.5 l	Glass bottle	

Methanol > ERBApharm - According to pharmacopoeia : DAB-NF-Ph.Eur.

ERBApharm

Description ..... Clear colourless liquid
Colour ..... ≤ 10 APHA
Identification ..... Positive
Density at 20° C ..... 0.791 ÷ 0.793
Refractive index at 20°C ..... 1.328 ÷ 1.330
Acidity ..... Conform DAB
Acidity or alcalinity ..... Pass test Ph.Eur.
Acidity (formic acid) ..... ≤ 10 ppm
Alcalinity (NH3) ..... ≤1 ppm
Distillation range ..... 64 ÷ 65 ° C
Water (K.F.) ..... ≤ 300 ppm
Residue on evaporation ..... ≤10 ppm
Ready oxidizable substances ..... Conform USP-NF
Ready carbonizable substances ..... Conform USP-NF
Acetone ..... ≤10 ppm
Acetone and aldeydes ..... ≤ 20 ppm
Ethyl alcohol ..... ≤ 100 ppm
Heavy metals and Zn ..... ≤2 ppm
Fe ..... ≤1 ppm
Absorbance UV (1cm, ref. water)
At 230 nm ..... ≤ 0.15 AU
At 250 nm ..... ≤ 0.05 AU
At 270 nm ..... ≤ 0.02 AU
At 290 nm ..... ≤ 0.01 AU
Absorbance UV curve ..... Smooth Ph.Eur.
Benzene ..... ≤ 2 ppm(v/v)
Organic volatile impurities Conform USP-NF
Related substances (CPG) ..... Pass test
Assay (GLC) ..... ≥99.9 %
Origin (BSE/TSE) ..... Synthesis
Residual solvents (Current ICH) ..... Conform

Code	Size	Packaging	Notes
309204	1 l	Glass bottle	
309203	2.5 l	Glass bottle	
309201	25 l	Plastic tank	
529100	200 l	Metal drum	

Methanol > RE - Pure

RE

Description ..... Clear colourless liquid
Identification ..... Positive
Colour ..... ≤10 APHA
Density at 20° C ..... 0.791 ÷ 0.793
Refractive index at 20°C . 1.3278 ÷ 1.3298
Boiling point ..... 64.1 ÷ 65.1 ° C
Residue on evaporation ..... ≤50 ppm
Acidity (formic acid) ..... ≤20 ppm
Water (K.F.) ..... ≤0.05 %
Subst. reducing KMnO4 ..... ≤3 ppm
Assay (GLC) ..... ≥99.9 %

Code	Size	Packaging	Notes
309004	1 l	Glass bottle	
309001	2.5 l	Glass bottle	
528101	5 l	Plastic tank	
309008	10 l	Plastic tank	
309002	25 l	Plastic tank	
309009	160 kg	Metal drum	
309000	200 l	Metal drum	

Methanol + 0.1% v/v formic acid

Metanolo + 0.1% v/v acido formico • Méthanol + 0.1% v/v acide formique • Metanol + 0.1% v/v acido formico

CH_3OH
Molecular Weight: 32,04
CAS: 67-56-1

Classification transport
ONU: 1992
Transport Hazard class: 3
Packing group II

Danger
H225-H301-H331-H370
P210-P241-P264-P303+P361+P353-P304+P340-P403+P235

Methanol + 0.1% v/v formic acid > RS - For LC/MS

RS

Description ..... Clear colourless liquid
Colour ..... ≤ 10 APHA
HPLC Gradient
At 254 nm ..... ≤10 mAU

Transmittance
At 230 nm ..... ≥10 %
Assay (CPG) ..... ≥99.5 %
Test LC-MS TIC (100-2000m/z)
Sensitive Impurities (reserpine)....≤100 ppb

Metals content
Na.....≤2 ppm
Ca.....≤0.5 ppm
Mg .....≤0.5 ppm
K.....≤0.5 ppm

Raw material used
Methanol LC-MS(code 414830) ..... Batch number
Formic acid 98-99% (code 405820) . Batch number

Code	Size	Packaging	Notes
414861	1 l	Glass bottle	
414862	2.5 l	Glass bottle	

Methanol + 0.1% v/v trifluoroacetic acid

Metanolo + 0.1% v/v acido trifluoroacetico • Méthanol + 0.1% v/v acide trifluoroacétique • Metanol + 0.1% v/v acido trifluoroacético

CH_3OH
Molecular Weight: 32,04
CAS: 67-56-1

Classification transport
ONU: 1230
Transport Hazard class: 3
Packing group II

Danger
H225-H301-H311-H331-H370
P210-P241-P264-P303+P361+P353-P304+P340-P403+P235

Methanol + 0.1% v/v trifluoroacetic acid > RS - For LC/MS

RS

Description ..... Clear colourless liquid
Assay (GC) (without TFA) ..... ≥ 99.9 %
Trifluoroacetic acid content0.095 - 0.105 % (V/V)
Water (K.F.) .....≤ 500 ppm
Residue on evaporation .....≤ 2 ppm

UV transmittance (1 cm , ref. water)
At 225 nm ..... ≥ 20 %
At 240 nm ..... ≥ 50 %
At 250 nm ..... ≥ 80 %
At 260 nm ..... ≥ 95 %
Fluorescence (quinine)
At 254 nm .....≤ 1 ppb
At 365 nm .....≤ 1 ppb
HPLC gradient
Drift at 254 nm ..... ≤ 40 mAU
Test LC-MS TIC (50-2000m/z) ES I(+)
Sensitive Impurities (reserpine).....≤ 50 ppb
Metals compounds
Al.....≤ 30 ppb
Fe .....≤ 100 ppb
Na.....≤ 50 ppb
Ca.....≤ 50 ppb
Mg .....≤ 30 ppb
K.....≤ 50 ppb

Code	Size	Packaging	Notes
414871	1 l	Glass bottle	
414872	2.5 l	Glass bottle	

Methanol, hydrochloric

Metanolo, cloridrico • Méthanol - chlorhydrique • Metanol, clorhídrico

CH_3OH
Molecular Weight: 32,04
CAS: 67-56-1

Classification transport
ONU: 2929

Methanol, hydrochloric > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611053203	100 ml	Glass bottle	Ref Ph.Eur 1053203

Methanol-d4

Alcole metilico-d4 • Méthanol-d4 • Metanol-d4

Synonym:
Tetradeuteromethanol

CD_3OD
Molecular Weight: 36,07
CAS: 811-98-3
EEC-N: 212-378-6

Classification transport
ONU: 1230
Transport Hazard class: 3
Packing group II

Danger
H225-H301-H311-H331-H370
P210-P241-P264-P303+P361+P353-P304+P340-P403+P235

Methanol-d4 > RS - For NMR - min 99.8%

RS

Code	Size	Packaging	Notes
P5280	10 x 0.6 ml	Glass ampoule	
P5289	10 x 0.75 ml	Glass bottle	
P5283A	5 ml	Glass ampoule	
P5284	5 x 10 ml	Glass ampoule	
P5284S	5 x 10 ml	Bottle with septum	
P5285	25 ml	Glass bottle	

Methanol-d4 > RS - For NMR - min 99.96%

RS

Code	Size	Packaging	Notes
P5310	10 x 0.6 ml	Glass ampoule	
P5319	10 x 0.75 ml	Glass ampoule	

Methanol-d4 + 0.03% TMS

Alcole metilico-d4 + 0.03% TMS • Méthanol-d4 + 0.03% TMS • Metanol-d4 + 0.03% TMS

Synonym:
Tetradeuteromethanol

CD_3OD
Molecular Weight: 36,07
CAS: 811-98-3
EEC-N: 212-378-6

Classification transport
ONU: 1230
Transport Hazard class: 3
Packing group II

Danger
H225-H301-H311-H331-H370
P210-P241-P264-P303+P361+P353-P304+P340-P403+P235

Methanol-d4 + 0.03% TMS > RS - For NMR - min 99.8%

RS

Code	Size	Packaging	Notes
P5140	10 x 0.6 ml	Glass ampoule	

Methanol-d3

Alcole metilico-d3 • Méthanol-d3 • Metanol-d3

Synonym:
1,1,1-Trideuteromethanol

CD_3OH
Molecular Weight: 35,02
CAS: 1849-29-2
EEC-N: 217-435-9

Classification transport
ONU: 1230
Transport Hazard class: 3
Packing group II

Danger
H225-H301-H311-H331-H370
P210-P241-P264-P303+P361+P353-P304+P340-P403+P235

Methanol-d3 > RS - For NMR - min 99.5%

RS

Code	Size	Packaging	Notes
P5309	10 x 0.75 ml	Glass ampoule	

Methanol-d1

Alcole metilico-d1 • Méthanol-d1 • Metanol-d1

Synonym:
Methan(ol-d)
Methyl alcohol-OD

CH_3OD
Molecular Weight: 33,05
CAS: 1455-13-6
EEC-N: 215-933-0

Classification transport
ONU: 1230
Transport Hazard class: 3
Packing group II

Danger
H225-H301-H311-H331-H370
P210-P241-P264-P303+P361+P353-P304+P340-P403+P235

Methanol-d1 > RS - For NMR - min 99.5%

RS

Code	Size	Packaging	Notes
P5275	25 ml	Glass bottle	

DL-Methionine

DL-Metionina • DL-Méthionine • DL-Metionina

Synonym:
(±)-2-Amino-4-(methylmercapto)butyric acid
DL-2-Amino-4(methylthio)butanoic acid

$CH_3S(CH_2)_2CHNH_2COOH$
Molecular Weight: 149,21
CAS: 59-51-8
EEC-N: 200-432-1

DL-Methionine > RPE - For analysis

RPE

Description ..... White crystalline powder
Identification ..... Positive
pH sol, 1% in H20 ..... 5.6 ÷ 6.1
Loss on drying ..... ≤0.2 %
Ammonium ..... ≤200 ppm
Chloride ..... ≤200 ppm
Heavy metals (Pb) ..... ≤10 ppm
Residue on ignition ..... ≤0.1 %
Sulphate ..... ≤200 ppm
Fe ..... ≤10 ppm
Assay (non-aqueos medium) . 99.0 ÷ 101.0 % (s.s.)

Code	Size	Packaging	Notes
463126	250 g	Plastic bottle	

Methone ▶ Dimedone

4-Methoxybenzaldehyde ▶ Anisaldehyde

4-Methoxybenzoic acid ▶ Anisic acid

2-Methoxy ethanol

2-Metossietanolo • Glycol éthylénique monométhylether • 2-Metoxietanol

Synonym:
Methyl glycol

$CH_2OHCH_2OCH_3$
Molecular Weight: 76,1
CAS: 109-86-4
EEC-N: 203-713-7

Classification transport
ONU: 1188
Transport Hazard class: 3
Packing group III

Danger
H226-H302-H312-H332-H360FD-HA26
P210-P241-P264-P303+P361+P353-P304+P340-P403+P235

2-Methoxy ethanol > RPE - For analysis

RPE

Description ..... Clear colourless liquid
Identification (I.R.) ..... Conform
Water miscibility ..... Conform
Benzene miscibility ..... Complete
Diethyl ether miscib. ..... Complete
Density at 20° C ..... 0.962 ÷ 0.968
Refractive index at 20°C . 1.4004 ÷ 1.4044
Boiling point ..... 123.5 ÷ 124.5 ° C
Water (K.F.) ..... ≤0.1 %
Residue on evaporation ..... ≤20 ppm
Acidity (acetic acid) ..... ≤30 ppm
Alcalinity (NH3) ..... ≤0.85 ppm
Carbonyl Compounds (CO) ..... ≤25 ppm
Heavy metals (Pb) ..... ≤2 ppm
Peroxides (H2O2) ..... ≤10 ppm
Al ..... ≤0.5 ppm
Ba ..... ≤0.1 ppm
Ca ..... ≤0.5 ppm
Cd ..... ≤0.05 ppm
Co ..... ≤0.02 ppm
Cr ..... ≤0.02 ppm
Cu ..... ≤0.02 ppm
Fe ..... ≤1 ppm
Mg ..... ≤0.01 ppm
Mn ..... ≤0.02 ppm
Ni ..... ≤0.02 ppm
Pb ..... ≤0.1 ppm
Sn ..... ≤0.1 ppm
Zn ..... ≤0.1 ppm
Assay (GLC) ..... ≥99.5 %

Code	Size	Packaging	Notes
454021	1 l	Glass bottle	
454024	2.5 l	Glass bottle	
454023	25 kg	Drum	
454028	180 kg	Metal drum	

alpha-Methoxyphenylacetic acid

Acido alfa-metossifenilacetico • Acide alpha-méthoxyphénylacétique • Acido alfa-metoxifenilacético

Synonym:
MOPA
alpha-Methyl-DL-mandilic acid

$C_6H_5CH(OCH_3)COOH$
Molecular Weight: 166,18
CAS: 7021-09-2
EEC-N: 230-300-9

Warning
H315-H319-H335
P264-P271-P304+P340-P305+P351+P338-P312a-P332+P313

alpha-Methoxyphenylacetic acid > RPE - For analysis - Reag. Ph.Eur.

RPE

Description ..... Yellowish crystalline powder
Identification ..... Positive
Melting point ..... 69 ÷ 71 ° C
Sulphated ash ..... ≤0.05 %
Assay ..... ≥99 %

Code	Size	Packaging	Notes
407441	5 g	Glass bottle	

Methyl acetate
Metile acetato • Méthyle acétate • Metilo acetato

CH_3COOCH_3
Molecular Weight: 74,08
CAS: 79-20-9
EEC-N: 201-185-2

Classification transport
ONU: 1231
Transport Hazard class: 3
Packing group II

Danger
H225-H319-H336-HEU066
P210-P241-P264-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

Methyl acetate > RS - For HPLC - Isocratic Grade
RS

Refractive index at 20°C ..... 1.359 - 1.363
Water content (K.F.) ..... ≤ 500 mg/Kg
Non volatile residue ..... ≤ 10 mg/Kg
Colour ..... ≤ 10 Hazen
Assay (GC) ..... ≥ 99.5 %
Free acid (as CH3COOH) ..... ≤ 25 mg/Kg
UV Absorbance at 255 nm ..... ≤ 1 AU
UV Absorbance at 275 nm ..... ≤ 0.1 AU
UV Absorbance at 300 nm ..... ≤ 0.01 AU

Code	Size	Packaging	Notes
P0043721	2.5 l	Glass bottle	

Methyl acetate > RPE - For analysis
RPE

Description ..... Clear liquid
Colour (APHA) ..... ≤ 10
Identification ..... Positive
Density at 20° C ..... 0.930 ÷ 0.936
Water (K.F.) ..... ≤ 0.1 %
Assay (GLC) ..... ≥ 99 %

Code	Size	Packaging	Notes
462017	1 l	Glass bottle	

Methyl acetate > RE - Pure
RE

Refractive index at 20°C ..... 1.359 - 1.363
Water content (K.F.) ..... ≤ 300 mg/Kg
Non volatile residue ..... ≤ 50 mg/Kg
Colour ..... ≤ 10 Hazen
Assay (GC) ..... ≥ 99 %
Methanol ..... ≤ 0.1 %
Free acid (as CH3COOH) ..... ≤ 50 mg/Kg

Code	Size	Packaging	Notes
P0040228	5 l	Plastic tank	
P0040240	10 l	Metal tank	
P0040248	25 l	Drum	
P0040268	200 l	Metal drum	

Methyl alcohol ▶ Methanol

4-Methylaminophenol sulfate
Bis (4-idrossi-N-metilanilinio) solfato • 4-Méthylaminophénol sulfate • 4-Metil aminofenol sulfato

Synonym:
Metol

$(CH_3NHC_6H_4OH)_2.H_2SO_4$
Molecular Weight: 344,39
CAS: 55-55-0
EEC-N: 200-237-1

Classification transport
ONU: 3077
Transport Hazard class: 9
Packing group III

Warning
H302-H317-H373-H410
P264-P273-P260-P280g-P314-P330

4-Methylaminophenol sulfate > RPE - For analysis - ACS
RPE

Description ..... beige crystalline powder
Identification ..... Positive
Suit.for phosphate det. ..... Conform
Residue on ignition ..... ≤ 0.15 %
Assay (oxidimetric) ..... ≥ 98.5 %

Code	Size	Packaging	Notes
461805	250 g	Plastic bottle	

Methyl benzoate
Metile benzoato • Méthyle benzoate • Metilo benzoato

$C_6H_5COOCH_3$
Molecular Weight: 136,15
CAS: 93-58-3
EEC-N: 202-259-7

Warning
H302
P264-P270-P330-P301+P312a-P501a

Methyl benzoate > RPE - For analysis
RPE

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 20° C ..... 1.086 ÷ 1.090
Refractive index at 20° C ..... 1.51 ÷ 1.52
Water (K.F.) ..... ≤0.1 %
Residue on evaporation ..... ≤100 ppm
Acidity (benzoic acid) ..... ≤0.12 %
Cu ..... ≤ 0.2 ppm
Fe ..... ≤ 0.5 ppm
Ni ..... ≤ 0.2 ppm
Pb ..... ≤ 0.2 ppm
Assay (GLC) ..... ≥99 %

Code	Size	Packaging	Notes
462207	1 l	Glass bottle	

3-Methyl-2-benzothiazolinone hydrazone hydrochloride

3-Metile-2-benzotiazolinone idrazone cloridrato • 3-Méthyl-2-benzothiazoline hydrazone chlorhydrate • 3-Metil-2-benzotiazolinona hidrazona clorhidrato

Synonym: *2-Hydrazono-3-methylbenzothiazoline hydrochloride*

$C_8H_9N_3S.HCl.H_2O$
Molecular Weight: 233,72
CAS: 38894-11-0

Classification transport
ONU: 2811
Transport Hazard class: 6.1
Packing group II

Danger
H301-H315-H319-H351-H335
P264-P271-P280-P304+P340-P305+P351+P338-P301+P310a

3-Methyl-2-benzothiazolinone hydrazone hydrochloride > RPE - For analysis

RPE

Description ..... White powder
Identification ..... Positive
Loss on drying ..... ≤ 8 %
Sensibilità (gruppo OH) ..... Conform
Assay (argentimetric) ..... ≥ 97.5 % (s.s.)

Code	Size	Packaging	Notes
462238	5 g	Glass bottle	

Methyl blue

Blu metile • Bleu de méthyle • Azul de metilo

Synonym: *Acid blue 93*

$C_{37}H_{27}N_3Na_2O_9S_3$
Molecular Weight: 799,8
CAS: 28983-56-4
EEC-N: 249-352-9

Methyl blue > RS - For microscopy - C.I. 42780

RS

Description ..... Red-violet crystals
Identification ..... Positive
Sensib.(pH 9.0-11.0) ..... Conform

Code	Size	Packaging	Notes
428932	25 g	Glass bottle	

Dye for histology and microbiology

2-Methylbutane ▶ Isopentane

2-Methyl-2-butanol ▶ tert-Amyl alcohol

3-Methyl-1-butanol ▶ Isoamyl alcohol

2-Methyl-2-butene

2-Metil-2-butene • 2-Méthylbutène-2 • 2-Metil-2-buteno

Synonym: *β-Isoamylene*

$CH_3CH{:}C(CH_3)_2$
Molecular Weight: 70,13
CAS: 513-35-9
EEC-N: 208-156-3

Classification transport
ONU: 2460
Transport Hazard class: 3
Packing group II

Danger
H225-H302-H315-H304-H411
P210-P241-P264-P273-P303+P361+P353-P403+P235

2-Methyl-2-butene > RPE - For analysis

RPE

Description ..... Clear colourless liquid
Identification ..... Positive
Refractive index at 20°C. 1.3860 ÷ 1.3880
Assay (GLC) ..... ≥99 %

Code	Size	Packaging	Notes
418253	25 ml	Glass bottle	

Methyl cyanide ▶ Acetonitrile

Methylcyclohexane

Metilcicloesano • Méthylcyclohexane • Metilciclohexano

Synonym:
Hexahydrotoluene

$CH_3CH(CH_2)_4CH_2$
Molecular Weight: 98,19
CAS: 108-87-2
EEC-N: 203-624-3

Classification transport
ONU: 2296
Transport Hazard class: 3
Packing group II

Danger
H225-H315-H336-H304-H411
P210-P241-P264-P273-P303+P361+P353-P304+P340-P403+P235

Methylcyclohexane > RS - Anhydrous - For analysis

RS

Refractive index at 20°C.....1.421 - 1.425
Water content (K.F.).....≤ 50 mg/Kg
Non volatile residue.....≤ 10 mg/Kg
Colour ..... ≤ 10 Hazen
Aromatic compounds.....≤ 300 mg/Kg
Assay (GC)..... ≥ 99 %
Total sulphur (S) .....≤ 1 ppm

Code	Size	Packaging	Notes
P0581016	1 l	Glass bottle	

Methylcyclohexane > RE - Pure

RE

Description .....Clear liquid
Density at 20°C .....0.767 ÷ 0.770
Refractive index at 20°C.....1.419 ÷ 1.427
Boiling point.....100.15 ÷ 100.65 °C
Benzene .....≤ 200 ppm
Total sulphur (S) .....≤ 2 ppm
Water (K.F.) ..... ≤ 0.03 %
Residue on evaporation .....≤ 50 ppm
Assay (GLC) ..... ≥ 99.0 % (GLC)
Acidity or alcalinity.....Passes test

Code	Size	Packaging	Notes
528264	1 l	Glass bottle	
528261	5 l	Plastic tank	
528260	25 l	Drum	
528262	200 l	Metal drum	

Methylene blue

Blu metilene • Bleu de méthylène • Azul de metileno

Synonym:
Tetramethylthionine chloride
3,7-bis(Dimethylamino)phenazathonium chloride

$C_{16}H_{18}N_3SCl.3H_2O$
Molecular Weight: 373,9
CAS: 7220-79-3
EEC-N: 200-515-2

Warning
H302-H315-H319-H335
P264-P271-P304+P340-P305+P351+P338-P330-P332+P313

Methylene blue > RS - For analysis - Reag.Ph.Eur. - C.I. 52015

RS

Description .....Powder green/blue
Identification .....Positive
Assay (dried base).....96 ÷ 101 %
Solubility..... Clear Blue Solution
As .....≤ 8 ppm
Fe .....Passes
Pb.....≤ 20 ppm

Code	Size	Packaging	Notes
428984	100 g	Plastic bottle	

Methylene blue > RPE - For analysis - C.I. 52015

RPE

Description ..... Polvere verde blu
Identification ..... Positive
Functionality ..... Conform

Code	Size	Packaging	Notes
429982	25 g	Glass bottle	
429981	500 g	Plastic bottle	

Redox indicator purple - colorless

Methylene blue saturated solution

Blu metilene soluzione satura in alcole etilico • Bleu de méthylène solution saturée • Azul de metileno solución saturada en alcohol etilico

Synonym:
Tetramethylthionine chloride

$C_{16}H_{18}N_3SCl$
Molecular Weight: 319,85 (an,)
CAS: 61-73-4

Classification transport
ONU: 1170
Transport Hazard class: 3
Packing group II

Danger
H225-H319
P210-P241-P264-P303+P361+P353-P305+P351+P338-P403+P235

Methylene blue saturated solution > RPE - For analysis

RPE

Description .....Blue liquid
Identification .....Positive
Density at 20° C ..... 0.809 ÷ 0.815 g/ml
Assay ..... 1.0 ÷ 1.2 % (p/v)

Code	Size	Packaging	Notes
E429031	250 ml	Glass bottle	

Methylene blue solution 1%

Blu metilene soluzione 1% • Bleu de méthylène solution 1% • Azul de metileno solución 1%

Synonym: *Tetramethylthionine chloride*

$C_{16}H_{18}N_3SCl$
Molecular Weight: 319,85 (an,)
CAS: 61-73-4

HEU210

Methylene blue solution 1% > RPE - For analysis

RPE

Description ..... Blue liquid | Identification ..... Positive | Density at 20° C ..... ~ 1.00 g/ml | Assay (oxidimetric) ..... 0.9 ÷ 1.1 %

Code	Size	Packaging	Notes
E429011	500 ml	Plastic bottle	

Methylene chloride ▶ Dichloromethane

Methyl green

Verde metile • Vert de méthyle • Verde de metilo

$C_{26}H_{33}Cl_2N_3$
Molecular Weight: 458,48
CAS: 82-94-0

Warning
H315-H319-H335
P264-P271-P280-P304+P340-P305+P351+P338-P312a

Methyl green > RS - For microscopy - C.I. 42585

RS

Description ..... Dark red powder | Identification ..... Positive

Code	Size	Packaging	Notes
491351	10 g	Glass bottle	
491352	25 g	Glass bottle	

Dye for cytology

Methyl 4-hydroxybenzoate

Metile p-ossibenzoato • Méthyle p-oxybenzoate • Metilo p-oxibenzoato

Synonym: *4-Hydroxybenzoic acid propyl ester*

$HOC_6H_4COOCH_3$
Molecular Weight: 152,15
CAS: 99-76-3
EEC-N: 202-785-7

Warning
H315-H319-H335
P264-P271-P304+P340-P305+P351+P338-P312a-P332+P313

Methyl 4-hydroxybenzoate > ERBApharm - According to pharmacopoeia : DAB-BP-FU-NF-Ph.Eur.-Ph.Franc.

ERBApharm

Description ..... White crystalline powder | Acidity (HCl) ..... Conform Ph.Eur. | Melting point ..... 125 ÷ 128 °C | Origin (BSE/TSE) ..... Synthesis
Identification ..... Positive | Related substances ..... Conform Ph.Eur. | Sulphated ash ..... ≤ 0.1 %
Appearance of solution ..... Conform Ph.Eur. | Organic volatile impurities Conform USP-NF | Assay (acidimetric) ..... 99.0 ÷ 100.5 %

Code	Size	Packaging	Notes
354007	1 kg	Plastic bottle	
354008	5 kg	Plastic jar	

Methyl iodide

Metile ioduro • Méthyle iodure • Metilo yoduro

Synonym: *Iodomethane*

CH_3I
Molecular Weight: 141,94
CAS: 74-88-4
EEC-N: 200-819-5

Classification transport
ONU: 2644
Transport Hazard class: 6.1
Packing group I

Danger
H301-H312-H331-H315-H351-H335
P264-P271-P304+P340-P301+P310a-P308+P313-P312a

Methyl iodide > RPE - For analysis

RPE

Description ..... Clear liquid | Density at 20° C ..... 2.276 ÷ 2.284 | Water (K.F.) ..... ≤ 500 ppm
Identification ..... Positive | Refractive index at 20°C ..... 1.5273 ÷ 1.5313 | Residue on evaporation ..... ≤50 ppm
Colour ..... ≤100 APHA | Boiling point ..... 42.0 ÷ 43.0 °C | Assay (GLC) ..... ≥99 %

Code	Size	Packaging	Notes
462601	50 ml	Glass bottle	
462604	250 ml	Glass bottle	

Stabilized with silver

Methylisoamyl ketone

Metilisoamilchetone • Méthylisoamylcétone • Metilo isoamilcetona

Synonym:
5-Methyl-2-hexanone
Isobutylacetone

$C_7H_{14}O$
Molecular Weight: 114,19
CAS: 110-12-3

Classification transport
ONU: 2302
Transport Hazard class: 3
Packing group III

Methylisoamyl ketone > RE - Pure

RE

Refractive index at 20°C ..... 1.404 - 1.408
Water content (K.F.) ..... ≤ 1000 mg/Kg
Non volatile residue ..... ≤ 50 mg/Kg
Colour ..... ≤ 10 Hazen
Assay (GC) ..... ≥ 98 %
Free acid (as CH3COOH) ..... ≤ 200 mg/Kg

Code	Size	Packaging	Notes
P0900221	2.5 l	Glass bottle	

Methyl isobutyl ketone

Metile isobutilchetone • Méthylisobutylcétone • Metilo isobutilcetona

Synonym:
4-Methyl-2-pentanone
MIBK

$CH_3COCH_2CH(CH_3)_2$
Molecular Weight: 100,16
CAS: 108-10-1
EEC-N: 203-550-1

Classification transport
ONU: 1245
Transport Hazard class: 3
Packing group II

Danger
H225-H332-H319-H335-HEU066
P210-P241-P264-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

Methyl isobutyl ketone > RS - Anhydrous - For analysis

RS

Refractive index at 20°C ..... 1.394 - 1.398
Density d20/20 ..... 0.797 - 0.805
Water content (K.F.) ..... ≤ 200 mg/Kg
Non volatile residue ..... ≤ 10 mg/Kg
Colour ..... ≤ 10 Hazen
Assay (GC) ..... ≥ 99.5 %
Acetone ..... ≤ 0.1 %
Mesityl and isomesityl oxide ..... ≤ 0.1 %
4-methyl-2-pentanol ..... ≤ 0.1 %
Free acid (as CH3COOH) ..... ≤ 50 mg/Kg

Code	Size	Packaging	Notes
P0601016	1 l	Glass bottle	

Keep in a well-ventilated place

Methyl isobutyl ketone > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description ..... Clear liquid
Colour (APHA) ..... ≤10
Identification (I.R.) ..... Conform
Alcohol miscibility ..... Complete
Benzene miscibility ..... Complete
Diethyl ether miscib. ..... Complete
Density at 20° C ..... 0.797 ÷ 0.805
Refractive index at 20°C. 1.3930 ÷ 1.3990
Boiling point ..... 115.7 ÷ 116.7 °C
Water (K.F.) ..... ≤0.05 %
Residue on evaporation ..... ≤10 ppm
Acidity ..... ≤0.002 meq/g
Alcalinity (NH3) ..... ≤10 ppm
Cd ..... ≤0.05 ppm
Cu ..... ≤0.1 ppm
Fe ..... ≤0.1 ppm
Ni ..... ≤0.1 ppm
Pb ..... ≤0.1 ppm
Zn ..... ≤0.1 ppm
Assay (GLC) ..... ≥99.5 %
Acetone ..... ≤ 0.1 %
Mesityl and isomesityl oxide ..... ≤ 0.1 %
4-methyl-2-pentanol ..... ≤ 0.1 %

Code	Size	Packaging	Notes
461945	1 l	Glass bottle	

Keep in a well-ventilated place

Methyl isobutyl ketone > RE - Pure

RE

Description ..... Clear liquid
Identification ..... Positive
Density at 20°C ..... 0,797 ÷ 0,805
Refractive index at 20°C. 1.3930 ÷ 1.3990
Boiling point ..... 115,7 ÷ 116,7 °C
Acidity (Acetic ac.) ..... ≤ 50 ppm
Residue on evaporation ..... ≤ 30 ppm
Water (K.F.) ..... ≤ 1000 ppm
Assay (GLC) ..... ≥ 99.5 %
Acetone ..... ≤ 0.1 %
Colour ..... ≤ 15 APHA

Code	Size	Packaging	Notes
528980	5 l	Plastic tank	
528981	25 l	Drum	

Keep in a well-ventilated place

Methyl orange
Arancio metile • Méthylorange • Naranja de metilo

Synonym:
4-[4-(Dimethylamino)phenylazo]benzenesulfonic acid sodium salt
Acid Orange 52

$C_{14}H_{14}N_3NaO_3S$
Molecular Weight: 327,34
CAS: 547-58-0
EEC-N: 208-925-3

Classification transport
ONU: 3143
Transport Hazard class: 6.1
Packing group II

Danger
H301
P264-P270-P301+P310a-P330-P321-P405

Methyl orange > RPE - For analysis - C.I. 13025 - ACS
RPE

Description .....Yellow-orange powder Identification .....Positive Colour change..... rosso-giallo pH range .....3.2 ÷ 4.4 pH

Code	Size	Packaging	Notes
423504	25 g	Glass bottle	
423503	50 g	Plastic bottle	
423505	250 g	Plastic bottle	
423501	500 g	Plastic bottle	
423502	25 kg	Drum	

Dye for microscopy (histology). Indicator acid - base (pH 3.0 ÷ 4.4)

Methyl Orange solution 0.1%
Arancio metile soluzione 0.1% • Méthylorange solution 0.1% • Naranja de metilo solución 0.1%

Synonym:
4-[4-(Dimethylamino)phenylazo]benzenesulfonic acid sodium salt
Acid Orange 52

$C_{14}H_{14}N_3NaO_3S$
Molecular Weight: 327,34
CAS: 547-58-0

Methyl Orange solution 0.1% > RS - For analysis according to Ph. Eur. Chap. 4.1.1
RS

Code	Size	Packaging	Notes
611054802	100 ml	Plastic bottle	Solution in ethanol Ref Ph.Eur 1054802

Colour change: pH 3.0 (red) to pH 4.4 (yellow)

Methyl Orange solution 0.1% > RPE - For analysis
RPE

Description .....Orange clear liquid Identification .....Positive Sensitivity(pH 3.1-4.4) .....Conform Colour change..... red-yellow

Code	Size	Packaging	Notes
E423562	500 ml	Plastic bottle	

Acid-base indicator

Methyl orange mixed solution
Indicatore misto di metile arancione • Indicateur mixte au méthylorange • Naranja de metilo solución mixta

Synonym:
4-[4-(Dimethylamino)phenylazo]benzenesulfonic acid sodium salt
Acid Orange 52

Methyl orange mixed solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1
RS

Code	Size	Packaging	Notes
611054801	100 ml	Plastic bottle	Ref Ph.Eur 1054801

Colour change: pH 3.0 (orange) to pH 4.4 (olive-green)

2-Methylpentane ▶ Isohexane

4-Methyl-2-pentanone ▶ Methyl isobutyl ketone

2-Methylphenol ▶ o-Cresol

Methyl phenyl ketone ▶ Acetophenone

2-Methyl-2-propanol ▶ tert-Butanol

2-Methylpropanoic acid ▶ Isobutyric acid

n-Methyl-2-pyrrolidone

n-Metile-2-pirrolidone • n-Méthyle-2-pyrrolidone • n-Metil-2-pirrolidona

Synonym:
1-Methyl-2-pyrrolidone
NMP

C_5H_9NO
CAS: 872-50-4
EEC-N: 212-828-1

Danger
H315-H319-H360D-H335-HA26
P264-P271-P304+P340-P305+P351+P338-P308+P313-P312a

n-Methyl-2-pyrrolidone > RS - Anhydrous - For analysis

RS

Appearance ..... Clear liquid
Identification ..... Conform
Density d20/4 ..... 1.026 - 1.032
Refractive index at 20°C ..... 1.466 - 1.471
Colour ..... ≤ 20 Hazen
Water content (K.F.) ..... ≤ 200 mg/Kg
Assay (GC) ..... ≥ 99.8 %
Butyrolactone ..... ≤ 500 mg/Kg
Monomethylamine ..... ≤ 50 mg/Kg

Code	Size	Packaging	Notes
P0871010	200 ml	Bottle with septum	

n-Methyl-2-pyrrolidone > RS - For peptide synthesis

RS

Clear liquid appearance ..... Conform
Identification (IR) ..... Conform
Refractive index at 20°C ..... 1.466 - 1.471
Water content (K.F.) ..... ≤ 400 mg/Kg
Colour ..... ≤ 15 Hazen
Bromophenol blue test ..... Conform
Amines content ..... ≤ 5 mg/Kg
Assay (GC) ..... ≥ 99.7 %
Non volatile residue ..... ≤ 10 mg/Kg

Code	Size	Packaging	Notes
P0873516	1 l	Glass bottle	
P0873521	2.5 l	Glass bottle	
P0873541	10 l	Plastic tank	
P0873549	25 l	Plastic tank	
P0873566	200 l	Polythene-metal drum	

n-Methyl-2-pyrrolidone > RPE - For analysis - ACS

RPE

Description ..... Clear liquid
Identification ..... Positive
Colour ..... ≤ 50 APHA
Density at 20° C ..... 1.026 ÷ 1.032
Refractive index at 20°C. 1.4670 ÷ 1.4710
Water (K.F.) ..... ≤0.05 %
Chloride ..... ≤ 1 ppm
Free amines (as CH3NH2) ..... ≤ 0.01 %
Butirrolattone ..... ≤ 500 ppm
Monometilammina ..... ≤ 50 ppm
Assay (GLC) ..... ≥99.8 %

Code	Size	Packaging	Notes
462872	1 l	Glass bottle	
462875	2.5 l	Glass bottle	
462874	23 kg	Drum	
462873	210 kg	Metal drum	

n-Methyl-2-pyrrolidone > RE - Pure

RE

Description ..... Clear liquid
Identification ..... Positive
Colour ..... ≤ 50 APHA
Density at 20°C ..... 1.026 ÷ 1.032
Refractive index at 20°C ..... 1.4670 ÷ 1.4710
Boiling point ..... 203.0 ÷ 205.0 °C
Residue on evaporation ..... ≤ 50 ppm
Water (K.F.) ..... ≤ 0.1 %
Assay (GLC) ..... ≥ 99.5 %

Code	Size	Packaging	Notes
528341	1 l	Glass bottle	
528343	2.5 l	Glass bottle	
528340	5 l	Plastic tank	
528346	25 l	Drum	

Methyl red
Rosso metile • Rouge méthyle • Rojo de metilo

Synonym:
2-(4-Dimethylaminophenylazo)benzoic acid
4-Dimethylaminobenzene-2'-carboxylic acid

$C_{15}H_{15}N_3O_2$
Molecular Weight: 269,31
CAS: 493-52-7
EEC-N: 207-776-1

Methyl red > RPE - For analysis - C.I. 13020 - ACS
RPE

Description ..... Purple powder | Melting point..... 179 ÷ 182 °C | Appear. of alcohol sol..... Conform | pH range ..... 4.2 - 6.2
Identification ..... Positive | Appear of water sol. ..... Conform | Colour change..... red-yellow

Code	Size	Packaging	Notes
476882	25 g	Glass bottle	
476883	50 g	Plastic bottle	
476881	250 g	Plastic bottle	

Methyl red solution water/ethanol 0.2%
Rosso metile soluzione 0.2% in alcole etilico • Rouge méthyle solution 0.2% dans l'éthanol • Rojo de metilo solución 0.2% en alcohol etilico

Synonym:
2-(4-Dimethylaminophenylazo)benzoic acid
4-Dimethylaminobenzene-2'-carboxylic acid

Warning
H319
P264-P280-P305+P351+P338-P337+P313

Methyl red solution water/ethanol 0.2% > RPE - For analysis
RPE

Description ..... Purple liquid | Identification ..... Positive | pH sensitivity..... 4.2 ÷ 6.2 | Colour change..... yellow red

Code	Size	Packaging	Notes
E476915	250 ml	Glass bottle	

Indicator series Clark indicator acid-base (pH 4.4 ÷ 6.2)

Methyl red solution 0.1% in ethanol
Rosso metile soluzione 0,1% in alcole etilico • Rouge méthyle solution 0.1% dans l'éthanol • Rojo de metilo solución 0.1% en alcohol etilico

Synonym:
2-(4-Dimethylaminophenylazo)benzoic acid
4-Dimethylaminobenzene-2'-carboxylic acid

Classification transport
ONU: 1170
Transport Hazard class: 3
Packing group II

Danger
H225-H319
P210-P241-P264-P303+P361+P353-
P305+P351+P338-P403+P235

Methyl red solution 0.1% in ethanol > RPE - For analysis
RPE

Description ..... Purple liquid | Identification ..... Positive | pH range ..... 4.4 - 6.2

Code	Size	Packaging	Notes
E476921	250 ml	Glass bottle	

Indicator series Clark indicator acid-base (pH 4.4 ÷ 6.2)

Methyl red solution
Rosso metile soluzione • Rouge de méthyle solution • Rojo de metilo solución

Synonym:
2-(4-Dimethylaminophenylazo)benzoic acid
4-Dimethylaminobenzene-2'-carboxylic acid

$C_{15}H_{15}N_3O_2$
Molecular Weight: 269.31
CAS: 493-52-7

Classification transport
ONU: 1170
Transport Hazard class: 3
Packing group II

Danger
H225-H319
P210-P241-P264-P303+P361+P353-
P305+P351+P338-P403+P235

Methyl red solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1
RS

Code	Size	Packaging	Notes
611055102	100 ml	Plastic bottle	Ref Ph.Eur 1055102

Colour change: pH 4.4 (red) to pH 6.0 (yellow)

Methyl red solution > RS - For analysis according to USP
RS

Code	Size	Packaging	Notes
617000111	100 ml	Plastic bottle	Methyl red solution TS

Methyl red mixed solution

Indicatore misto di rosso di metile • Indicateur mixte au rouge de méthyle • Rojo de metilo solución mixta

Classification transport
ONU: 1993
Transport Hazard class: 3
Packing group II

Danger
H225-H319
P210-P241-P264-P303+P361+P353-P305+P351+P338-P403+P235

Methyl red mixed solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1 — RS

Code	Size	Packaging	Notes
611055101	100 ml	Plastic bottle	Ref Ph.Eur 1055101

Colour change: pH 5.2 (red-violet) to pH 5.6 (green)

Methyl salicylate

Metile salicilato • Méthyle salicylate • Metilo salicilato

Synonym:
2-Hydroxybenzoic acid methyl ester

$HOC_6H_4COOCH_3$
Molecular Weight: 152,15
CAS: 119-36-8
EEC-N: 204-317-7

Classification transport
ONU: 3082
Transport Hazard class: 9
Packing group III

Warning
H302-H319
P264-P280i-P305+P351+P338-P330-P337+P313-P301+P312a

Methyl salicylate > ERBApharm - According to pharmacopoeia : BP-DAB-FU-Ph.Eur.-Ph.Franc. — ERBApharm

Description ..... Yellowish liquid
Identification ..... Positive
Relative density ..... 1.180 ÷ 1.186
Refractive index at 20°C ..... 1.535 ÷ 1.538
Assay (saponification) ..... 99.0 ÷ 100.5 %
Appearance of solution ..... Conform Ph.Eur.
Acidity ..... Conform Ph.Eur.

Code	Size	Packaging	Notes
354152	1 l	Glass bottle	
354155	25 kg	Plastic tank	

Methyl sulfoxide ▶ Dimethylsulphoxide

Methyl tert-butyl ether ▶ tert-Butylmethylether

2-Methyltetrahydrofuran

2-Metiltetraidrofurano • 2-Méthyltétrahydrofurane • 2-Metiltetrahidrofurano

Synonym:
Tetrahydro-2-methylfuran
2-MeTHF

$C_5H_{10}O$
Molecular Weight: 86,14
CAS: 96-47-9
EEC-N: 202-507-4

Classification transport
ONU: 2536
Transport Hazard class: 3
Packing group II

Danger
H225-H302-H318-H335-HEU019
P210-P241-P264-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

2-Methyltetrahydrofuran > RS - For HPLC - Isocratic Grade — RS

Clear,colourless liq.appearance ..... Conform
Identification ..... Conform
Colour ..... ≤ 10 Apha
Refractive index at 20°C ..... 1.404 - 1.408
Water content (K.F.) ..... ≤ 200 mg/Kg
Non volatile residue ..... ≤ 5 mg/Kg
Peroxides (as H2O2) ..... ≤ 300 mg/Kg
Assay (GC) ..... ≥ 99.5 %
UV transmittance at 240 nm ..... ≥ 30 %
UV transmittance at 250 nm ..... ≥ 50 %
UV transmittance at 260 nm ..... ≥ 70 %
UV transmittance at 280 nm ..... ≥ 90 %
UV transmittance from 310 nm ..... ≥ 98 %

Code	Size	Packaging	Notes
412681	1 l	Glass bottle	
412682	2.5 l	Glass bottle	

2-Methyltetrahydrofuran > RE - Pure — RE

Refractive index at 20°C ..... 1.404 - 1.408
Water content (K.F.) ..... ≤ 300 mg/Kg
Assay (GC) ..... ≥ 99.9 %
Stabilizer (ionol) ..... 150 - 400 mg/Kg
Peroxides (as H2O2) ..... ≤ 100 mg/Kg

Code	Size	Packaging	Notes
P9960216	1 l	Glass bottle	
P9960221	2.5 l	Glass bottle	
P9960229	5 l	Plastic tank	
P9960248	25 l	Drum	
P9960268	200 l	Metal drum	

4-Methyltetrahydropyran

4-Metiltetraidropirano • 4-Méthyltétrahydropyrane • 4-Metiltetrahidropyrano

$C_6H_{12}O$
Molecular Weight: 100.16
CAS: 4717-96-8
EEC-N: 225-207-5

Classification transport
ONU: 3271
Transport Hazard class: 3
Packing group II

Danger
H225-H302
P210-P241-P264-P243-P303+P361+P353-P403+P235

4-Methyltetrahydropyran > RE - Pure

RE

Appearance ..... Clear colourless liquid Colour ..... ≤ 10 Hazen Density d20/4 ..... 0.855 - 0.865 Assay (GC) ..... ≥ 99.0 %

Code	Size	Packaging	Notes
P9990218	500 ml	Glass bottle	
P9990216	1 l	Glass bottle	
P9990221	2.5 l	Glass bottle	

Methylthymol blue sodium salt

Blu metiltimolo sale sodico • Bleu de méthylthymol sel de sodium • Azul de metiltimol sal sódica

Synonym:
3,3'-Bis[n,n-di(carboxymethyl)aminomethyl thymolsulfonephthalein sodium salt

$C_{37}H_{40}O_{13}N_2Na_4S$
Molecular Weight: 844,76
CAS: 1945-77-3
EEC-N: 217-743-3

Warning
H315-H319-H335
P264-P271-P280-P304+P340-P305+P351+P338-P312a

Methylthymol blue sodium salt > RPE - For analysis

RPE

Description ..... Greenish brown powder Identification ..... Positive

Code	Size	Packaging	Notes
429021	1 g	Glass bottle	
429022	25 g	Glass bottle	

Complexometric indicator

Methyl yellow

Giallo metile • Jaune de méthyle • Amarillo de metilo

Synonym:
4-(Dimethylamin)azobenzene
N,N-Dimethyl-4-(phenylazo)aniline

$(CH_3)_2NC_6H_4N{:}NC_6H_5$
Molecular Weight: 225,29
CAS: 60-11-7
EEC-N: 200-455-7

Classification transport
ONU: 3143
Transport Hazard class: 6.1
Packing group III

Danger
H301-H317
P264-P261-P280g-P301+P310a-P330-P333+P313

Methyl yellow > RPE - For analysis - C.I. 11020

RPE

Description ..... Yellow orange powder pH range ..... 2.9 - 4.0 Colour change ..... Red - yellow
Identification ..... Positive Loss on drying ..... ≤3 %

Code	Size	Packaging	Notes
444552	25 g	Glass bottle	

Acid-base indicator (pH 2.9 ÷ 4.0)

Melting point standards

Punto di fusione standard • Standards de point de fusion • Patrones de puntos de fusión

Synonym:
1,3,7-Trimethylxanthine

$CH_3CONHC_6H_5$
Molecular Weight: 135.17
CAS: 103-84-4
EEC-N: 203-150-7

Warning
H302
P264-P270-P330-P301+P312a-P501a

Melting point standards > RS - For calibration

RS

Code	Size	Packaging	Notes
540001	1 g	Bottle	Benzophenone 47 to 49°C
540002	1 g	Bottle	p-Nitrotoluene 52 to 54°C
540003	1 g	Bottle	Vanillin 81 to 83°C
540004	1 g	Bottle	Benzoic Acid 121 to 123°C
540005	1 g	Bottle	Phenacetin 133 to 135°C
540006	1 g	Bottle	Salicylic Acid 158 to 160°C
540007	1 g	Bottle	Sulfanilamide 164 to 166°C
540008	1 g	Bottle	Caffeine 235 to 238°C
540009	1 g	Bottle	Carbazole 243 to 247°C
540010	1 g	Bottle	Anthraquinone 283 to 286°C
540014	1 g	Bottle	Acetanilide 113 to 116°C
540011	3 x 1g	Bottle	Set Sulphanilamide Caffeine Vanillin
540012	3 x 1g	Bottle	Set Benzophenone (4749°C) Benzoic Acid (121-123°C) Anthraquinone (283-286°C)
540013	3 x 1g	Bottle	Set Vanillin (81-83°C) Phenacetin (134-136°C) Caffeine (235-237°C)

Mineral oil ▶ Paraffin oil

Mixture C.H.M.

Miscela C.H.M. • Mélange CHM • Mezcla C.H.M.

Classification transport
ONU: 1228
Transport Hazard class: 3
Packing group II

Danger
H225-H302-H311-H331-H315-H319-H351-H361d-H336-H372-H410-HEU301
P210-P241-P264-P273-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

Mixture C.H.M. > RPE - For analysis

RPE

Description ..... Clear colourless liquid Colour ..... ≤ 10 APHA Density at 20°C .....1.070 ÷ 1.080 Assay (GLC) .....Conform

Code	Size	Packaging	Notes
524411	2.5 l	Glass bottle	
524412	5 l	Plastic tank	

Composition: Chloroforme stab. Amylene : 49%(v/v) n-Heptane : 49%(v/v) Methanol : 2%(v/v)

Mix Diethyl ether/Ethanol 70/30 (w/w)

Miscela alcole-etere 30/70 (p/p) • Mélange alcool/ether 30/70 (m/m) • Mezcla alcohol-éter 30/70 (p/p)

Classification transport
ONU: 1993
Transport Hazard class: 3
Packing group II

Danger
H225-H319-H336-HEU019
P210-P241-P264-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

Mix Diethyl ether/Ethanol 70/30 (w/w) > RPE - For analysis

RPE

Description ..... Clear colourless liquid Identification ..... Positive Density at 20° C ..... 0.740 ÷ 0.750

Code	Size	Packaging	Notes
463251	1 l	Glass bottle	
463255	2.5 l	Glass bottle	

Contains Phenolphtalein

Mix Diethyl ether / Ethanol absolute 50/50 (w/w)

Miscela Etere Etilico / Etanolo assoluto 50/50 (p/p) • Mélange Ether Ethylique / Ethanol absolu 50/50 (m/m) • Mezcla Eter Etilico / Etanol absoluto 50/50 (p/p)

Classification transport
ONU: 1993
Transport Hazard class: 3
Packing group I

Danger
H224-H319-H336-HEU019
P210-P241-P264-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

Mix Diethyl ether / Ethanol absolute 50/50 (w/w) > RE - Pure

RE

Description ..... Clear colourless liquid Colour ..... ≤ 10 APHA

Code	Size	Packaging	Notes
529311	5 l	Aluminium can	

Mix Diethyl Ether / Ethanol 50/50 (v/v)

Miscela Etere Etilico / Etanolo 50/50 (v/v) • Mélange Ether Ethylique / Ethanol 50/50 (v/v) • Mezcla Eter Etilico / Etanol 50/50 (v/v)

Classification transport
ONU: 1993
Transport Hazard class: 3
Packing group I

Danger
H224-H319-H336-HEU019
P210-P241-P264-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

Mix Diethyl Ether / Ethanol 50/50 (v/v) > RE - Pure

RE

Description ..... Clear colourless liquid Colour ..... ≤ 10 APHA Density at 20°C ..... ~ 0.757

Code	Size	Packaging	Notes
529381	5 l	Aluminium can	

Mixture for bromine index determination

Miscela per la determinazione dell'indice di bromo • Mélange pour indice de brome • Mezcla para la determinación de índice de bromo

Classification transport
ONU: 2922
Transport Hazard class: 8
Packing group II

Danger
H226-H302-H312-H332-H314-H351-H370-H373
P210-P241-P264-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

Mixture for bromine index determination > RS - For analysis

RS

Refractive index at 20°C ..... 1.375 - 1.379 Density d20/4 ..... 1.056 - 1.064

Code	Size	Packaging	Notes
PS0573/21	2.5 l	Glass bottle	

Mixture for checking solderings

Miscela per il controllo delle saldature degli imballaggi • Mélange pour le contrôle des soudures des emballages • Mezcla para el control de soldaduras de envases

Classification transport
ONU: 1219
Transport Hazard class: 3
Packing group II

Danger
H225-H319-H336
P210-P241-P264-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

Mixture for checking solderings > RS - For agroalimentary analysis

RS

Description ..... Clear purple liquid Density at 20°C ..... 0.788 ÷ 0.798

Code	Size	Packaging	Notes
502671	5 l	Plastic tank	

Mixture iodine/water/pyridine/THF

Miscela iodio/acqua/piridina/THF • Mélange iode/eau/pyridine/THF • Mezcla iodo/agua/piridina/THF

Classification transport
ONU: 1993
Transport Hazard class: 3
Packing group II

Mixture iodine/water/pyridine/THF > RPE - For analysis

RPE

Refractive index at 20°C..... 1.409 - 1.413

Code	Size	Packaging	Notes
P0833521	2.5 l	Glass bottle	

Mixtures for residual solvents analysis

Soluzioni standard per la ricerca di solventi residui • Mélanges pour la recherche des solvants résiduels • Mezclas para disolventes residuales analisis

Mixtures for residual solvents analysis > RS - For analysis according to Ph. Eur. Chap. 2.4.24

RS

Code	Size	Packaging	Notes
507688	1 ml	Glass ampoule	5 elements (Class 1) : Benzene 4mg/ml; 1,2-Dichloroethane 10mg/ml; Tetrachloromethane 8mg/ml; 1,1-Dichloroethene 16mg/ml; 1,1,1-Tric hloroethane 20mg/ml; Matrix : Dimethylsulphoxide
507689	1 ml	Glass ampoule	14 elements (Class 2) : Chlorobenzene 360µg/ml; Cyclohexane 3880µg/ml; cis-1,2-Dichloroethene 1870µg/ml; Dichloromethane 600µg/ml; Ethylbenzene 369µg/ml; n-Hexane 290µg/ml; Methylcyclohexane 1180µg/ml; n,n-Dimethylformamide 880µg/ml; Toluene 890µg/ml; 1,1,2-Trichloroethene 80µg/ml; m-Xylene 1302µg/ml; o-Xylene 195µg/ml; p-Xylene 304µg/ml; Tetrahydrofuran 720µg/ml; Matrix : Dimethylsulfoxide
507690	1 ml	Glass ampoule	11 elements (Class 2) : Acetonitrile 410mg/l; Chloroform 60mg/l; 1,2-Dimethoxyethane 100mg/l; n,n-Dimethylacetamide 1090mg/l; Dioxan 380mg/l; 2-Hexanone 50mg/l; Methanol 3000mg/l; Nitromethane 50mg/l ; Pyridine 200mg/l; 1,2,3,4-Tetrahydronaphthalene 100mg/l; Isopropylbenzene (Cumene) 70mg/l; Matrix : Dimethylsulphoxide/ Water
507691	1 ml	Glass ampoule	6 elements (Class 2) : Ethyleneglycol-monoethyl ether (2-Ethoxyethanol) 160mg/l; Ethyleneglycol 620mg/l; Formamide 220mg/l; Ethylene glycol-monomethyl ether (2-Methoxyethanol) 50mg/l; 1-Methyl-2-pyrrolidon 4840mg/l; Sulfolan 160mg/l; Matrix : Water

Mixtures for residual solvents analysis > RS - For analysis according to USP <467> Residual solvents

RS

Code	Size	Packaging	Notes
507692	1 ml	Glass ampoule	5 elements (Class 1) : Benzene 10mg/ml; Tetrachloromethane (Carbon tetrachloride) 20mg/ml; 1,2-Dichloroethane 25mg/ml; 1,1-Dichloroethene 40mg/ml; 1,1,1-Trichloroethane 50mg/ml; Matrix : Dimethylsulphoxide
507693	1 ml	Glass ampoule	16 elements (Class 2) : Acetonitrile 2.05mg/ml; Chlorobenzene 1.8mg/ml; Cumene 0.34mg/ml; Cyclohexane 19.4mg/ml; cis-1,2-Dichloroethene 4.7mg/ml; trans-1,2-Dichloroethene 4.7mg/ml; 1,4-Dioxan 1.9mg/ml; Ethylbenzene 1.84mg/ml; Methanol 15mg/ml; Methylcyclohexane 5.9mg/ml; Dichloromethane 3mg/ml; Tetrahydrofuran 3.6mg/ml; Toluene 4.45mg/ml; m-Xylene 6.51mg/ml; o-Xylene 0.98mg/ml; p-Xylene 1.52mg/ml; Matrix : Dimethylsulphoxide
507694	1 ml	Glass ampoule	8 elements (Class 2) : Chloroform 60µg/ml; 1,2-Dimethoxyethane 100µg/ml; n-Hexane 290µg/ml; 2-Hexanone 50µg/ml; Nitromethane 50µg/ml; Pyridine 200µg/ml; 1,2,3,4-Tetrahydronaphthalene (Tetralin) 100µg/ml; Trichloroethene 80µg/ml; Matrix : Dimethylsulphoxide

Molecular sieves 3 A
Setacci molecolari 3 A • Tamis moléculaire 3 A • Tamices moleculares 3 A

HEU210

Molecular sieves 3 A > RS - Pellets 1/16'' RS

Description ..... Beige granules Identification ..... Positive Apparent density ..... 700 ÷ 800 g/l

Code	Size	Packaging	Notes
477731	250 g	Glass bottle	

Molecular sieves 3 A > RS - Pellets 1/8'' RS

Description ..... Sferett e 1/8" Identification ..... Positive

Code	Size	Packaging	Notes
477721	250 g	Glass bottle	

Molecular sieves 3 A > RS - Pure RS

Code	Size	Packaging	Notes
P1810017	1 kg	Plastic bottle	

Molecular sieves 3 A deuterated
Setacci molecolari 3 A deuterati • Tamis moléculaire 3 A deutéré • Tamices moleculares 3 A deuterado

HEU210

Molecular sieves 3 A deuterated > RS - For NMR RS

Code	Size	Packaging	Notes
P557X	5 g	Glass bottle	

Molecular sieves 4 A
Setacci molecolari 4 A • Tamis moléculaire 4 A • Tamices moleculares 4 A

HEU210

Molecular sieves 4 A > RS - Pellets RS

Code	Size	Packaging	Notes
P1820017	1 kg	Plastic bottle	
P1820027	5 kg	Plastic bucket	
P1820057	50 kg	Fibre drum	

Molybdenum standard solution
Molibdeno standard soluzione • Molybdène solution standard • Molibdeno, solución patrón

Molybdenum standard solution > RS - Standard solution for ICP-MS RS

Code	Size	Packaging	Notes
505722	100 ml	Plastic bottle	conc. 10 ppm Matrix : Nitric acid and hydrofluoric acid
505725	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid and hydrofluoric acid
505723	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Molybdenum standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
503731	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Ammonium hydroxide
503735	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Ammonium hydroxide
503733	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Ammonium hydroxide
503737	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Ammonium hydroxide

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Molybdenum standard solution > RS - Standard solution for AAS

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
E497565	100 ml	Glass bottle	conc. 1.000 ppm Matrix : Ammonium hydroxide
507747	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrofluoric acid and nitric acid
507494	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid and hydrofluoric acid
E497561	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Ammonium hydroxide

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Molybdenum standard solution > RS - NORMEX - Concentrated solution for AAS

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
463431		Plastic vial	conc. 1.000 ppm Matrix : Ammonium hydroxide - Volume : 50 ml

Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package

Molybdenum (VI) oxide

Anidride molibdica • Anhydride molybdique • Anhídrido molibdénico

Synonym:
Molybdenum trioxide

MoO_3
Molecular Weight: 143,94
CAS: 1313-27-5
EEC-N: 215-204-7

Classification transport
ONU: 3288
Transport Hazard class: 6.1
Packing group III

Warning
H319-H351-H335
P264-P271-P304+P340-P305+P351+P338-P308+P313-P312a

Molybdenum (VI) oxide > RPE - For analysis

RPE

Description ..... White,slightly yellow, green, or gray solid
Identification ..... Positive
Ammonium ..... ≤ 100 ppm
Chloride ..... ≤ 50 ppm
Phosphate ..... ≤ 5 ppm
Nitrate ..... ≤ 100 ppm
Sulphate ..... ≤ 200 ppm
Fe ..... ≤ 50 ppm
Assay (oxidimetric) ..... ≥ 99.5 %

Code	Size	Packaging	Notes
422004	100 g	Glass bottle	
422005	250 g	Glass bottle	

Molybdophosphoric acid ▶ Phosphomolybdic acid

Molybdovanadic reagent

Reattivo molibdovanadico • Réactif molybdovanadique • Reactivo molibdenovanádico

Classification transport
ONU: 1760
Transport Hazard class: 8
Packing group III

Danger
H314-H318
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Molybdovanadic reagent > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611056700	100 ml	Plastic bottle	Ref Ph.Eur 1056700

Mordant Black 11 ▶ Eriochrome black T

Mordant Blue 29 ▶ Chromazurol S

Mordant Red 11 ▶ Alizarin

Morin
Morina • Morine • Morina

$C_{15}H_{10}O_7.2H_2O$
Molecular Weight: 338,27
CAS: 6472-38-4
EEC-N: 207-542-9

Morin > RPE - For analysis - C.I. 75660 — RPE

Description ..... Brown powder | Identification ..... Positive | Residue on ignition ..... ≤ 1 % | Alluminium sensitivity ..... ~ 1 µg/ml

Code	Size	Packaging	Notes
463508	5 g	Glass bottle	
463509	25 g	Glass bottle	

Reagent for the determination of Al

Morpholine
Morfolina • Morpholine • Morfolina

Synonym:
Tetrahydro-1,4-oxazine

$NH(CH_2)_2OCH_2CH_2$
Molecular Weight: 87,12
CAS: 110-91-8
EEC-N: 203-815-1

Classification transport
ONU: 2054
Transport Hazard class: 8
Packing group I

Danger
H226-H302-H312-H332-H314
P210-P241-P264-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

Morpholine > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP — RPE

Description ..... Clear liquid | Identification ..... Positive | Boiling point ..... 126.0 ÷ 130.0 °C
Colour (APHA) ..... ≤ 10 | Assay (acidimetric) ..... ≥ 99.0 % | Density at 20°C ..... ~ 1.01

Code	Size	Packaging	Notes
463453	1 l	Glass bottle	

Multianions standard for ion chromatography
Standard multianione per cromatografia ionica • Etalon multiéléments pour chromatographie ionique • Patrón multielementos para cromatografía iónica

Classification transport
ONU: 3264
Transport Hazard class: 8
Packing group II

Multianions standard for ion chromatography > RS - Standard solution according to EPA method — RS

Code	Size	Packaging	Notes
504526	100 ml	Plastic bottle	7 elements : Br-, Cl-, NO3-, NO2-, PO43-, SO42-, F- 1g/l each - Matrix : Water

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Multianions standard for ion chromatography > RS - Quality control standard solution — RS

Code	Size	Packaging	Notes
504527	100 ml	Plastic bottle	7 elements : Br- 100ppm, SO42- 150ppm, PO43- 50ppm, Cl- 30ppm, NO2- 30ppm, NO3- 20ppm, F- 20 ppm - Matrix : Water

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Multielement standard for ICP

Standard multielemento per ICP • Etalon multiéléments pour ICP • Patrón multielementos para ICP

Multielement standard for ICP > RS - For analysis according to USP <2232> WK Dietary supplement

RS

Code	Size	Packaging	Notes
506120	100 ml	Plastic bottle	4 elements : Cd 5mg/l; Pb 10mg/l; As 15mg/l; Hg 15mg/l. Matrix : 7% HNO3

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Multielement standard for ICP > RS - For analysis according to USP <232> Oral elemental impurities

RS

Code	Size	Packaging	Notes
506110	100 ml	Plastic bottle	8 elements : Cd 25mg/l; Pb 5mg/l; As 1.5mg/l; Hg 15mg/l; Mo 100mg/l; Ni 500mg/l; V 100mg/l ; Cu 1000mg/l. Matrix : 7% HNO3
506150	100 ml	Plastic bottle	Precious metals - 6 elements : Ir 100 mg/l, Pt 100 mg/l; Os 100 mg/l; Rh 100 mg/l; Pd 100 mg/l; Ru 100 mg/l. Matrix : 15% HCl

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Multielement standard for ICP > RS - For analysis according to USP <232> Parenteral elemental impurities

RS

Code	Size	Packaging	Notes
506130	100 ml	Plastic bottle	Precious metals - 6 elements : Ir 10 mg/l, Pt 10 mg/l; Os 10 mg/l; Rh 10 mg/l; Pd 10 mg/l; Ru 10 mg/l. Matrix : 15% HCl
506140	100 ml	Plastic bottle	8 elements : Cd 2.5mg/l; Pb 5mg/l; As 1.5mg/l; Hg 1.5mg/l; Mo 10mg/l; Ni 50mg/l; V 10mg/l; Cu 100mg/l. Matrix : 7% HNO3

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Multielement standard for ICP > RS - Optimisation solution

RS

Code	Size	Packaging	Notes
504396	500 ml	Plastic bottle	13 elements : Al, Mg, Cr, Mn, Cu, Rh, In, Cd, Ce, Pb, Th, B, Ba 0 ,01mg/ml each - Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Multielement standard for ICP > RS - Quality control standard solution

RS

Code	Size	Packaging	Notes
504350	100 ml	Plastic bottle	22 elements : As, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, Li, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sr, Ti, Tl, V, Zn 1ppm each - Matrix : Nitric acid
504354	100 ml	Plastic bottle	33 elements : Al, Ag, As, B, Ba ,Be ,Bi ,Ca ,Cd ,Co ,Cs ,Cr ,Cu ,Fe ,In ,K ,Li ,Mg ,Mn ,Mo ,Na ,Nb ,Ni ,Pb ,Rb ,Sb ,Se ,Sr ,Ti ,Tl ,U ,V ,Zn 1ppm each - Matrix : Nitric acid
504356	100 ml	Plastic bottle	40 elements : Al, Ag, As, B, Ba, Be, Bi, Ca, Cd, Co, Cs, Cr, Cu, Fe, Ga, Ge, In, K, Li, Mg, Mn, Mo, Na, Ni, Nb, Pb, Pd, Rb, Sb, Se, Sn, Sr, Ta, Ti, Tl, U, V, W, Zn, Zr 1ppm each - Matrix : Nitric acid
504351	500 ml	Plastic bottle	22 elements : As, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, Li, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sr, Ti, Tl, V, Zn 1ppm each - Matrix : Nitric acid
504353	500 ml	Plastic bottle	28 elements : Al, Ag, As, B, Ba, Be, Bi, Ca, Ce, Co, Cr, Cu, Fe, K, Li, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Sr, Ti, Tl, V, Zn 1ppm each - Matrix : Nitric acid
504355	500 ml	Plastic bottle	33 elements : Al, Ag, As, B, Ba, Be, Bi, Ca, Cd, Co, Cs, Cr, Cu, Fe, In, K, Li, Mg, Mn, Mo, Na, Nb, Ni, Pb, Rb, Sb, Se, Sr, Ti, Tl, U, V, Zn 1ppm each - Matrix : Nitric acid
504357	500 ml	Plastic bottle	40 elements : Al, Ag, As, B, Ba, Be, Bi, Ca, Cd, Co, Cs, Cr, Cu, Fe, Ga, Ge, In, K, Li, Mg, Mn, Mo, Na, Ni, Nb, Pb, Pd, Rb, Sb, Se, Sn, Sr, Ta, Ti, Tl, U, V, W, Zn, Zr 1ppm each - Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Multielement standard for ICP > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
504301	100 ml	Plastic bottle	6 elements : Au, Ir, Pb, Pt, Rh, Ru 100ppm each - Matrix : Nitric acid
504303	100 ml	Plastic bottle	16 elements : Al, As, Ba, Be, Bi, Ca, Cs, Ga, In, K, Li, Mg, Na, Rb, Se, Sr 100ppm each - Matrix : Nitric acid
504305	100 ml	Plastic bottle	13 elements : Ag, Cd, Co, Cr, Cu, Fe, Hg, Mn, Ni, Pb, Tl, V, Zn 100ppm each - Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Multielement standard for ICP > RS - Calibrating solution

RS

Code	Size	Packaging	Notes
504306	100 ml	Plastic bottle	22 elements : As, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, Li, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sr, Ti, Tl, V, Zn 100ppm each - Matrix : Nitric acid
504308	100 ml	Plastic bottle	28 elements : Al, Ag, As, B, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, K, Li, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Sr, Ti, Tl, V, Zn 100ppm each - Matrix : Nitric acid
504310	100 ml	Plastic bottle	33 elements : Al, Ag, As, B, Ba, Be, Bi, Ca, Cd, Co, Cs, Cr, Cu, Fe, In, K, Li, Mg, Mn, Mo, Na, Ni, Nb, Pb, Rb, Sb, Se, Sr, Ti, Tl, U, V, Zn 100ppm - Matrix : Nitric acid
504312	100 ml	Plastic bottle	9 elements : Au, Ir, Os, Pb, Pt, Rh, Ru, Sn, Te 100ppm each - Matrix : Hydrochloric acid
504307	500 ml	Plastic bottle	22 elements : As, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, Li, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sr, Ti, Tl, V, Zn 100ppm each - Matrix : Nitric acid
504309	500 ml	Plastic bottle	28 elements : Al, Ag, As, B, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, K, Li, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Sr, Ti, Tl, V, Zn 100ppm each - Matrix : Nitric acid
504311	500 ml	Plastic bottle	33 elements : Al, Ag, As, B, Ba, Be, Bi, Ca, Cd, Co, Cs, Cr, Cu, Fe, In, K, Li, Mg, Mn, Mo, Na, Ni, Nb, Pb, Rb, Sb, Se, Sr, Ti, Tl, U, V, Zn 100ppm each - Matrix : Nitric acid
504313	500 ml	Plastic bottle	9 elements : Au, Ir, Os, Pb, Pt, Rh, Ru, Sn, Te 100ppm each - Matrix : Hydrochloric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Multielement standard for ICP and ICP-MS

Standard multielemento per ICP e ICP-MS • Etalon multiéléments pour ICP et ICP-MS • patrón multielementos para ICP e ICP-MS

Classification transport
ONU: 3264
Transport Hazard class: 8
Packing group II

Multielement standard for ICP and ICP-MS > RS - Solution de Tuning pour ICP-MS

RS

Code	Size	Packaging	Notes
504392	100 ml	Plastic bottle	9 elements : Be, Mg, Co, In, Rh, Ce, Ba, Pb, U 10ppm each - Matrix : Nitric acid
504393	100 ml	Plastic bottle	13 elements : Ba, Be, Bi, Ce, Cu, Ho, In, Li, Mg, Pb, Tl, U, Y 10ppm each - Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Multielement standard for ICP and ICP-MS > RS - Quality control standard solution

RS

Code	Size	Packaging	Notes
504352	100 ml	Plastic bottle	28 elements : Al, Ag, As, B, Ba, Be, Bi, Ca, Ce, Co, Cr, Cu, Fe, K, Li, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Sr, Ti, Tl, V, Zn 1ppm each - Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Murexide

Muresside • Murexide • Murexida

Synonym:
5,5'-Nitrilodibarbituric acid monoammonium salt

$C_8H_8N_6O_6$
Molecular Weight: 284,19
CAS: 3051-09-0
EEC-N: 221-266-6

Murexide > RPE - For analysis - C.I. 56085

RPE

Description ..... Red violet powder Identification ..... Positive Loss on drying ..... ≤10 % Residue on ignition..... ≤0.5 %

Code	Size	Packaging	Notes
463608	5 g	Glass bottle	
463609	25 g	Glass bottle	

Complexometric indicator

Naphthalene
Naftalene • Naphtalène • Naftaleno

$C_{10}H_8$
Molecular Weight: 128,17
CAS: 91-20-3
EEC-N: 202-049-5

Classification transport
ONU: 1334
Transport Hazard class: 4.1
Packing group III

Warning
H302-H351-H410
P264-P273-P280-P308+P313-P330-P301+P312a

Naphthalene > RPE - For analysis
RPE

Description ..... White flakes Identification ..... Positive Melting point..... 79 ÷ 82 ° C Assay (GLC) ..... ≥ 98.5 %

Code	Size	Packaging	Notes
463654	100 g	Plastic bottle	
463655	250 g	Plastic bottle	
463651	1 kg	Plastic bottle	

1-Naphthol
1-Naftolo • 1-Naphtol • 1-Naftol

Synonym:
1-Hydroxynaphthalene

$C_{10}H_7OH$
Molecular Weight: 144,17
CAS: 90-15-3
EEC-N: 201-969-4

Danger
H302-H312-H315-H318-H335
P264-P271-P304+P340-P305+P351+P338-P330-P332+P313

1-Naphthol > RPE - For analysis
RPE

Description .....Grey-brown flakes Identification ..... Positive Melting point..... 94 ÷ 98 ° C Assay (GLC) ..... ≥ 97.5 %

Code	Size	Packaging	Notes
463935	250 g	Plastic bottle	

1-Naphthol > RE - Pure
RE

Description .....White pinkish crystals Melting point..... 94 ÷ 98 ° C Assay (GLC) .....≥98 %
Identification ..... Positive á-Naphthole.....≤1 %

Code	Size	Packaging	Notes
354751	250 g	Plastic bottle	

2-Naphthol
2-Naftolo • 2-Naphtol • 2-Naftol

Synonym:
2-Hydroxynaphthalene

$C_{10}H_7OH$
Molecular Weight: 144,17
CAS: 135-19-3
EEC-N: 205-182-7

Classification transport
ONU: 3077
Transport Hazard class: 9
Packing group III

Warning
H302-H332-H400
P264-P273-P271-P261-P304+P340-P330

2-Naphthol > RPE - For analysis - C.I. 37500
RPE

Description ..... Flakes pinky Identification ..... Positive Melting point..... ≥ 120 °C Assay (GLC) ..... ≥ 99.0 %

Code	Size	Packaging	Notes
463984	100 g	Plastic bottle	
463986	500 g	Plastic bottle	

alpha-Naphtholbenzein

alfa-Naftolbenzeina • alpha-Naphtolbenzéine • alpha-Naftolbenceína

Synonym:
4,4'-(alpha-Hydroxybenzylidene)di-1-naphtol

$C_{27}H_{18}O_2$
Molecular Weight: 374,44
CAS: 145-50-6
EEC-N: 205-656-3

Warning
H315-H319-H335
P264-P271-P304+P340-P305+P351+P338-P312a-P332+P313

alpha-Naphtholbenzein > RPE - For analysis

RPE

Description ..... Red brown powder Identification ..... Positive Suitability for anhydrous titration ..... Conform

Code	Size	Packaging	Notes
463891	5 g	Glass bottle	

Acid-base indicator

alpha-Naphtholbenzein solution 0.2% in acetic acid

alfa-Naftolbenzeina soluzione 0.2% in acido acetico •
alpha-Naphtolbenzéine solution 0.2% dans acide acétique •
alpha-Naftolbenceína solución 0.2% en acido acético

Synonym:
4,4'-(alpha-Hydroxybenzylidene)di-1-naphtol

$C_{27}H_{18}O_2$
Molecular Weight: 374,44
CAS: 145-50-6

Classification transport
ONU: 2789
Transport Hazard class: 8
Packing group II

Danger
H226-H314-H318
P210-P241-P264-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

alpha-Naphtholbenzein solution 0.2% in acetic acid > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611057601	100 ml	Glass bottle	Ref Ph.Eur 1057601

N-1-Naphtylethylenediamine dihydrochloride

N-(1-Naftil)etilendiammina dicloridrato • n-(1-Naphtyl)éthylènediamine dichlorhydraté • n-(1-Naftil) etilendiamina diclorhidrato

Synonym:
2-(1-Naphthylamino)ethylamine dihydrochloride

$C_{10}H_7NHCH_2CH_2NH_2 \cdot 2HCl$
Molecular Weight: 259,18
CAS: 1465-25-4
EEC-N: 215-981-2

Warning
H315-H319
P264-P280g-P280i-P305+P351+P338-P332+P313-P337+P313

N-1-Naphtylethylenediamine dihydrochloride > RPE - For analysis

RPE

Description ..... White or beige powder, crystal or chunks Identification ..... Positive Water ..... ≤ 5 % Titolo (TLC) ..... ≥ 98 %

Code	Size	Packaging	Notes
463831	10 g	Glass bottle	

Search for sulfonamides in the blood and spectrophotometric determination of nitrites and nitrates for FIA middle

NDF Solution

Soluzione NDF • Solution NDF • Solución NDF

Danger
H360FD-HA26
P280-P201-P202-P308+P313-P405-P501a

NDF Solution > RPE - For agroalimentary analysis

RPE

Description ..... Clear liquid Density at 20°C ..... 1.010 ÷ 1.025 pH at 20°C ..... 6.10 ÷ 7.10

Code	Size	Packaging	Notes
526920	2.5 l	Glass bottle	
526921	25 l	Plastic tank	

Composition : Sodium laurylsulfate: 30 g; EDTA: 18.61 g; Sodium borate: 6.81 g; Hydrogenophosphate disodique : 4.6 g; Glycol monoethyeether : 10 ml; Water : QSP 1l according to NF V18-122

NDF Plus solution
Soluzione NDF PLUS • Solution NDF PLUS • Solución NDF PLUS

HEU210

NDF Plus solution > RPE - For agroalimentary analysis
RPE

Appearance ..... Clear liquid

Code	Size	Packaging	Notes
526941	25 l	Plastic tank	

Composition : Sodium laurylsulfate: 30 g; EDTA: 18.61 g; Sodium borate: 6.81 g; Hydrogenophosphate disodique : 4.6 g; Glycol monoethylether : 10 ml; Water : QSP 1l according to NF V18-122

Neocuproine
Neocuproina • Néocuproïne • Neocuproina

Synonym:
2,9-Dimethyl-1,10-phenanthroline
DMPHEN

$C_{14}H_{12}N_2.1/2H_2O$
Molecular Weight: 208,27
CAS: 484-11-7
EEC-N: 207-601-9

Warning
H315-H319-H335
P264-P271-P280-P304+P340-P305+P351+P338-P312a

Neocuproine > RPE - For analysis
RPE

Description ..... White powder
Identification ..... Positive
Melting point..... 158.5 ÷ 161.5 ° C
Residue on ignition.....≤0.1 %
Copper sensitivity ..... ≤0.3 µg/ml
Assay (non-aqueos medium).....≥99 %

Code	Size	Packaging	Notes
444871	1 g	Glass bottle	
444872	25 g	Glass bottle	

Neocuproine hydrochloride
Neocuproina cloridrato • Néocuproïne chlorhydraté • Neocuproina clorhidrato

Synonym:
2,9-Dimethyl-1,10-phenanthroline hydrochloride

$C_{14}H_{12}N_2.HCl.H_2O$
Molecular Weight: 244,72 (an,)
CAS: 7296-20-0
EEC-N: 230-732-8

Warning
H315-H319-H335
P264-P271-P280-P304+P340-P305+P351+P338-P312a

Neocuproine hydrochloride > RPE - For analysis
RPE

Description ..... Yellowish powder
Identification ..... Positive
Copper sensitivity .....≥0.3 µg/ml
Assay (non-aqueos medium)..... ≥99 % s s

Code	Size	Packaging	Notes
444731	1 g	Glass bottle	
444732	25 g	Glass bottle	

Neodymium standard solution
Neodimio standard soluzione • Néodyme solution standard • Neodimio, solución patrón

Classification transport
ONU: 3267
Transport Hazard class: 8
Packing group III

Neodymium standard solution > RS - Standard solution for ICP-MS
RS

Code	Size	Packaging	Notes
505742	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505745	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Neodymium standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
503761	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503765	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
503763	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503767	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Neodymium standard solution > RS - Standard solution for AAS

RS

Code	Size	Packaging	Notes
507748	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
507510	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Nessler's reagent single solution

Nessler reattivo soluzione unica • Réactif de Nessler solution • Nessler reactivo solución única

Classification transport
ONU: 2922
Transport Hazard class: 8
Packing group II

Danger
H301-H314-H318-H334-H317-H341-H373-H400-H412
P264-P273-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338-P342+P311a

Nessler's reagent single solution > RPE - For analysis

RPE

Description ..... Yellow clear liquid Identification ..... Positive Sensibilità all'azoto ..... Conform

Code	Size	Packaging	Notes
464231	500 ml	Plastic bottle	
464232	1 l	Plastic bottle	

For the determination of ammonia and ammonium salt

Nessler's reagent solution A

Nessler reattivo soluzione A • Réactif de Nessler solution A • Nessler reactivo solución A

Classification transport
ONU: 3287
Transport Hazard class: 6.1
Packing group II

Danger
H301-H310-H330-H334-H317-H411
P264-P273-P271-P280-P304+P340-P342+P311a

Nessler's reagent solution A > RPE - For analysis

RPE

Description ..... Yellow clear liquid Identification ..... Positive Density at 20° C ..... ≥1.2

Code	Size	Packaging	Notes
464422	500 ml	Plastic bottle	

For the determination of nitrogen

Nessler's reagent solution B

Nessler reattivo soluzione B • Réactif de Nessler solution B • Nessler reactivo solución B

Classification transport
ONU: 1824
Transport Hazard class: 8
Packing group II

Danger
H314-H318
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Nessler's reagent solution B > RPE - For analysis

RPE

Description ..... Clear colourless liquid Identification ..... Positive Assay ..... 20.50 ÷ 21.50 % (NaOH)

Code	Size	Packaging	Notes
464432	500 ml	Plastic bottle	

For the determination of nitrogen

Neutral red
Rosso neutro • Rouge neutre • Rojo neutro

Synonym:
3-Amino-7-dimethylamino-2-methylphenazine hydrochloride

$C_{15}H_{17}ClN_4$
Molecular Weight: 288,78
CAS: 553-24-2
EEC-N: 209-035-8

Classification transport
ONU: 3143
Transport Hazard class: 6.1
Packing group III

Warning
H302
P264-P270-P330-P301+P312a-P501a

Neutral red > RPE - For analysis - C.I. 50040 — RPE

Description ..... Green-brown powder
Identification ..... Positive
Loss on drying ..... ≤ 5 %
Colour change ..... red - yellow
pH range ..... 6.8 ÷ 8.0

Code	Size	Packaging	Notes
476951	10 g	Glass bottle	

Dye for microscopy (histology, hematology). Indicator acid - base (pH 6.8 ÷ 8.0)

Nickel standard solution
Nichel standard soluzione • Nickel solution standard • Niquel, solución patrón

Classification transport
ONU: 3264
Transport Hazard class: 8
Packing group III

Danger
H314-HEU208
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Nickel standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2 — RS

Code	Size	Packaging	Notes
615002001	100 ml	Plastic bottle	A 0.1 ppm solution : to dilute according to Ref Ph.Eur 5002001
615002002	100 ml	Plastic bottle	A 0.2 ppm solution : to dilute according to Ref Ph.Eur 5002002
615002009	100 ml	Plastic bottle	A 10 ppm solution : to dilute according to Ref Ph.Eur 5002000

Nickel standard solution > RS - Standard solution for ICP-MS — RS

Code	Size	Packaging	Notes
505752	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505755	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid
505753	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Nickel standard solution > RS - Standard solution for ICP — RS

Code	Size	Packaging	Notes
503771	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503775	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
503773	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503777	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Nickel standard solution > RS - Standard solution for AAS — RS

Description ..... Green clear liquid
Identification ..... Positive
Titration factor ..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
507749	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
E497575	100 ml	Glass bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
507487	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
E497571	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Nickel standard solution > RS - NORMEX - Concentrated solution for AAS

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
464271		Plastic vial	conc. 1.000 ppm Matrix : Nitric acid - Volume : 50 ml

Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package

Nickel standard solution > RS - Quality control standard solution for AAS (graphite furnace)

RS

Code	Size	Packaging	Notes
504363	50 ml	Plastic bottle	conc. 10 +/- 1 µg/L Matrix : 2% Nitric acid

Nickel, powder

Nichel, polvere • Nickel, poudre • Níquel, polvo

Ni
Molecular Weight: 58,71
CAS: 7440-02-0
EEC-N: 231-111-4

Danger
H317-H351-H372
P264-P260-P280g-P308+P313-P314-P333+P313

Nickel, powder > RPE - For analysis

RPE

Description .....Polvere metallica Identification ..... Positive Assay .....≥ 98 %

Code	Size	Packaging	Notes
464384	100 g	Glass bottle	

Nickel (II) acetate tetrahydrate

Nichel acetato oso esaidrato • Nickel (II) acétate tétrahydraté • Níquel (II) acetato

Synonym:
Acetic acid nickel(II) salt

$Ni(CH_3COO)_2.4H_2O$
Molecular Weight: 248,86
CAS: 6018-89-9

Warning
H302-H332-H317-H351
P264-P271-P261-P304+P340-P308+P313-P330

Nickel (II) acetate tetrahydrate > RPE - For analysis

RPE

Description .....Green powder
Identification .....Positive
Co..... ≤ 0.2 %
Cr.....≤ 5 ppm
Cu.....≤ 10 ppm
Fe .....≤ 20 ppm
Mn .....≤ 20 ppm
Pb.....≤ 5 ppm
Zn .....≤ 10 ppm
Assay .....23 ÷ 24 % (Ni)

Code	Size	Packaging	Notes
464474	100 g	Plastic bottle	
464476	500 g	Plastic bottle	
464477	1 kg	Plastic bottle	

Nickel (II) ammonium sulfate hexahydrate

Nichel ammonio solfato oso • Nickel (II) ammonium sulfate hexahydraté • Níquel (II) amonio sulfato hexahidrato

$Ni(NH_4)_2(SO_4)_2.6H_2O$
Molecular Weight: 395
CAS: 15699-18-0
EEC-N: 239-793-2

Classification transport
ONU: 3077
Transport Hazard class: 9
Packing group III

Danger
H302-H332-H334-H317-H341-H350i-H360D-H372-H410-HA26
P264-P273-P271-P280-P304+P340-P342+P311a

Nickel (II) ammonium sulfate hexahydrate > RPE - For analysis

RPE

Description .. Green-blue crystalline powder
Identification .....Positive
pH sol. 5% at 25° C .....4.3 ÷ 4.7
Chloride.....≤ 10 ppm
Water-insoluble matter .....≤ 30 ppm
Nitrate .....≤ 100 ppm
Subst. not ppt. (NH4)2S ..... ≤ 0.2 %
Ca.....≤ 50 ppm
Cd.....≤ 20 ppm
Co.....≤ 10 ppm
Cu.....≤ 10 ppm
Fe .....≤ 10 ppm
K.....≤ 200 ppm
Na.....≤ 200 ppm
Pb.....≤ 10 ppm
Zn .....≤ 20 ppm
Assay (complexometric).....99 ÷ 100 %

Code	Size	Packaging	Notes
464545	250 g	Plastic bottle	
464547	1 kg	Plastic bottle	

Low content in cobalt

Nickel (II) carbonate basic

Nichel carbonato oso basico • Nickel (II) carbonate basique • Níquel (II) carbonato básico

$NiCO_3.2Ni(OH)_2.4H_2O$
Molecular Weight: 376,23
CAS: 39430-27-8
EEC-N: 235-715-9

Classification transport
ONU: 3077
Transport Hazard class: 9
Packing group III

Warning
H302-H317-H351-H410
P264-P273-P261-P280g-P308+P313-P330

Nickel (II) carbonate basic > RPE - For analysis

RPE

Description ..... Green powder
Identification ..... Positive
Chloride ..... ≤ 0.1 %
Diluted HCl-ins. matter ..... ≤ 500 ppm
Co ..... ≤ 0.1 %
Cu ..... ≤ 50 ppm
Fe ..... ≤ 100 ppm
Pb ..... ≤ 50 ppm
Zn ..... ≤ 50 ppm
Assay (complexometric) ..... ≥ 45 % (Ni)

Code	Size	Packaging	Notes
464604	100 g	Glass bottle	
464605	1 kg	Plastic bottle	

Nickel (II) chloride hexahydrate

Nichel cloruro oso esaidrato • Nickel (II) chlorure hexahydraté • Níquel (II) cloruro hexahidratado

$NiCl_2.6H_2O$
Molecular Weight: 237,7
CAS: 7791-20-0
EEC-N: 231-743-0

Classification transport
ONU: 3288
Transport Hazard class: 6.1
Packing group III

Danger
H301-H334-H317-H351
P264-P284-P304+P340-P342+P311a-P301+P310a-P308+P313

Nickel (II) chloride hexahydrate > RPE - For analysis

RPE

Description ..... Green crystals
Identification ..... Positive
pH sol. 5% at 20°C ..... 4 ÷ 6
Mg ..... ≤ 10 ppm
Sulphate ..... ≤ 50 ppm
Ca ..... ≤ 50 ppm
Cd ..... ≤ 10 ppm
Co ..... ≤ 20 ppm
Cu ..... ≤ 10 ppm
Fe ..... ≤ 20 ppm
Na ..... ≤ 50 ppm
Pb ..... ≤ 10 ppm
Zn ..... ≤ 10 ppm
Assay (argentimetric) ..... ≥ 98 %

Code	Size	Packaging	Notes
464644	100 g	Glass bottle	
464645	250 g	Plastic bottle	
464647	1 kg	Plastic bottle	

Low content in cobalt

Nickel (II) nitrate hexahydrate

Nichel nitrato oso esaidrato • Nickel (II) nitrate hexahydraté • Níquel (II) nitrato hexahidratado

$Ni(NO_3)_2.6H_2O$
Molecular Weight: 290,81
CAS: 13478-00-7
EEC-N: 236-068-5

Classification transport
ONU: 2725
Transport Hazard class: 5.1
Packing group III

Danger
H272-H302-H334-H317-H351
P221-P264-P210a-P280a-P304+P340-P342+P311a

Nickel (II) nitrate hexahydrate > RPE - For analysis

RPE

Description ..... Green crystals
Identification ..... Positive
Water-insoluble matter ..... ≤ 100 ppm
Chloride ..... ≤ 50 ppm
Al ..... ≤ 10 ppm
As ..... ≤ 5 ppm
Ca ..... ≤ 10 ppm
Cd ..... ≤ 1 ppm
Co ..... ≤ 0.5 %
Cr ..... ≤ 1 ppm
Cu ..... ≤ 10 ppm
Fe ..... ≤ 10 ppm
Mg ..... ≤ 10 ppm
Mn ..... ≤ 20 ppm
Pb ..... ≤ 1 ppm
S ..... ≤ 10 ppm
Zn ..... ≤ 10 ppm
Assay (complexometric) ..... ≥ 98.5 %

Code	Size	Packaging	Notes
464685	250 g	Plastic bottle	
464686	1 kg	Plastic bottle	

Nickel (II) nitrate 10g/l

Nichel nitrato oso 10 g/l • Nickel (II) nitrate 10 g/l • Níquel (II) nitrato 10 gIL

Classification transport
ONU: 3098
Transport Hazard class: 5.1
Packing group II

Danger
H314-H334-H317-H341-H350-H360D-H372-H411-HA26
P264-P273-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338-P342+P311a

Nickel (II) nitrate 10g/l > RS - Matrix modifiers for AAS-GTA

RS

Code	Size	Packaging	Notes
503197	50 ml	Plastic bottle	conc. 10 ppm - Matrix : Nitric acid

Nickel (II) sulfate hexahydrate

Nichel solfato oso esaidrato • Nickel (II) sulfate hexahydraté • Níquel (II) sulfato hexahidratado

$NiSO_4 \cdot 6H_2O$
Molecular Weight: 262,86
CAS: 10101-97-0

Classification transport
ONU: 3077
Transport Hazard class: 9
Packing group III

Danger
H301-H334-H317-H351-H410
P264-P273-P284-P304+P340-P342+P311a-P301+P310a

Nickel (II) sulfate hexahydrate > RPE - For analysis

RPE

Description ..... Green crystals
Identification ..... Positive
pH sol. 5% at 25° C ..... 2.5 ÷ 6.5
Total nitrogen ..... ≤20 ppm
Chloride ..... ≤10 ppm
Water-insoluble matter ..... ≤100 ppm
Subst. not ppt. (NH4)2S ..... ≤0.1 %
Ca ..... ≤400 ppm
Cd ..... ≤10 ppm
Co ..... ≤5 ppm
Cu ..... ≤10 ppm
Fe ..... ≤80 ppm
K ..... ≤500 ppm
Mn ..... ≤10 ppm
Na ..... ≤100 ppm
Pb ..... ≤10 ppm
Zn ..... ≤20 ppm
Assay (complexometric) ..... ≥99 %

Code	Size	Packaging	Notes
464775	250 g	Plastic bottle	
464777	1 kg	Plastic bottle	
464772	25 kg	Plastic bucket	

Low content in cobalt

Nicotinamide

Nicotinammide • Nicotinamide • Nicotinamida

Synonym:
Vitamin B3
Niacetamide

$C_6H_6ON_2$
Molecular Weight: 122,13
CAS: 98-92-0
EEC-N: 202-713-4

Warning
H315-H319-H335
P264-P271-P280-P304+P340-P305+P351+P338-P312a

Nicotinamide > ERBApharm - According to pharmacopoeia : Ph.Eur.-USP-FU-Ph.Franc.-BP-DAB

ERBApharm

Description ..... White crystalline powder
Identification ..... Positive
Appearance of solution ..... Conform Ph.Eur.
Related substances ..... Conform Ph.Eur.
Ready carbonizable substances ..... Conform USP-NF
Organic volatile impurities Conform USP-NF
Melting point ..... 128 ÷ 131 ° C
pH solution 5% ..... 6.0 ÷ 7.5
Loss on drying ..... ≤0.5 %
Sulphated ash ..... ≤0.1 %
Heavy metals (Pb) ..... ≤30 ppm
Assay (non-aqueos medium) . 99.0 ÷ 101.0 % s.s.
Assay (HPLC) ..... 98.5 ÷ 101.5 % s.s.

Code	Size	Packaging	Notes
392304	100 g	Plastic bottle	
392307	1 kg	Plastic bottle	

Nicotinic acid
Acido nicotinico • Acide nicotinique • Acido nicotínico

Synonym:
3-Picolinic acid

N:CHC(COOH):CHCH:CH
Molecular Weight: 123,11
CAS: 59-67-6
EEC-N: 200-441-0

Warning
H319
P264-P280i-P305+P351+P338-P337+P313

Nicotinic acid > RPE - For analysis
RPE

Description ..... White crystalline powder
Identification ..... Positive
Melting point ..... 235.7 ÷ 237.3 ° C
Chloride ..... ≤0.02 %
Heavy metals (Pb) ..... ≤20 ppm
Loss on drying ..... ≤1.0 %
Residue on ignition ..... ≤0.1 %
Assay (non-aqueos medium) ..... 99.5 ÷ 100.5 %
Sulphate ..... ≤ 0.02 %

Code	Size	Packaging	Notes
407914	100 g	Plastic bottle	

Nigrosine
Nigrosina • Nigrosine • Nigrosina

Synonym:
Acid black 2

CAS: 8005-03-6

Warning
H302-H312-H332
P264-P271-P280-P261-P304+P340-P330

Nigrosine > RS - For microscopy - C.I. 50420
RS

Description ..... black granules
Identification ..... Positive

Code	Size	Packaging	Notes
464852	25 g	Glass bottle	
464853	50 g	Glass bottle	

Ninhydrin
Ninidrina • Ninhydrine • Ninhidrina

Synonym:
1,2,3-Indantrione monohydrate

$C_6H_4COCOCO.H_2O$
Molecular Weight: 178,15
CAS: 485-47-2
EEC-N: 207-618-1

Warning
H302-H315-H319-H335
P264-P271-P304+P340-P305+P351+P338-P330-P332+P313

Ninhydrin > RPE - For analysis - ACS
RPE

Description ..... Yellow powder
Identification ..... Positive
Ident.and melting point ..... Conform
Aminoacids sensitivity ..... Conform
Solubility ..... Conform

Code	Size	Packaging	Notes
464928	5 g	Glass bottle	
464922	25 g	Glass bottle	

Ninhydrin solution
Ninidrina solzione • Ninhydrine solution • Ninhidrina solución

Synonym:
1,2,3-Indantrione monohydrate

Classification transport
ONU: 1993
Transport Hazard class: 3
Packing group III

Danger
H226-H318
P210-P241-P243-P303+P361+P353-P305+P351+P338-P403+P235

Ninhydrin solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1
RS

Code	Size	Packaging	Notes
611058304	100 ml	Glass bottle	Ninhydrin solution R1 Ref Ph.Eur 1058304
611058305	100 ml	Glass bottle	Ninhydrin solution R2 Ref Ph.Eur 1058305

Ninhydrin and stannous chloride reagent
Ninidrina e stagno cloruro reattivo • Réactif à la ninhydrine et au chlorure stanneux • Ninhidrina y estaño cloruro reactivo

Ninhydrin and stannous chloride reagent > RS - For analysis according to Ph. Eur. Chap. 4.1.1 — RS

Code	Size	Packaging	Notes
611058301	100 ml	Glass bottle	Ref Ph.Eur 1058301

Niobium standard solution
Niobio standard soluzione • Niobium solution standard • Niobio, solución patrón

Classification transport
ONU: 1760
Transport Hazard class: 8
Packing group III

Niobium standard solution > RS - Standard solution for ICP-MS — RS

Code	Size	Packaging	Notes
505737	100 ml	Plastic bottle	conc. 10 ppm Matrix : Nitric acid and hydrofluoric acid
505738	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid and hydrofluoric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Niobium standard solution > RS - Standard solution for ICP — RS

Code	Size	Packaging	Notes
503751	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid and hydrofluoric acid
503755	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid and hydrofluoric acid
503753	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid and hydrofluoric acid
503757	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid and hydrofluoric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Niobium standard solution > RS - Standard solution for AAS — RS

Code	Size	Packaging	Notes
507750	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid and hydrofluoric acid
507511	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Nital solution 4%
Nital soluzione 4% • Nital solution 4% • Nital solución 4%

Nital solution 4% > RS - Macrography — RS

Code	Size	Packaging	Notes
505021	1 l	Plastic bottle	

Composition: 4ml HNO3 65% ; 100ml Ethanol

Nitrate standard solution
Nitrati standard soluzione • Nitrate solution standard • Nitrato, solución patrón

Nitrate standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2 — RS

Code	Size	Packaging	Notes
615002101	100 ml	Plastic bottle	A 10 ppm solution : to dilute according to Ref Ph.Eur 5002101
615002102	100 ml	Plastic bottle	A 2 ppm solution : to dilute according to Ref Ph.Eur 5002102
615002109	100 ml	Plastic bottle	A 100 ppm solution : to dilute according to Ref Ph.Eur 5002100

Nitrate standard solution > RS - Standard solution for ion chromatography

RS

Code	Size	Packaging	Notes
503331	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503333	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Nitric acid fuming 90%

Acido nitrico fumante 90% • Acide nitrique fumant 90% • Acido nítrico fumante 90%

HNO_3
Molecular Weight: 63,01
CAS: 7697-37-2
EEC-N: 231-714-2

Classification transport
ONU: 2031
Transport Hazard class: 8
Packing group I

Danger
H272-H314
P210-P221-P303+P361+P353-P305+P351+P338-P310-P405-P501a

Nitric acid fuming 90% > RPE - For analysis

RPE

Description	Clear colourless liquid	Heavy metals (Pb)	≤1 ppm	Cu	≤0.2 ppm	Zn	≤0.2 ppm
Identification	Positive	Residue on ignition	≤10 ppm	Fe	≤1 ppm	Assay (acidimetric)	89 ÷ 92 %
Density at 20° C	1.479 ÷ 1.485	Sulphate	≤2 ppm	Mn	≤0.2 ppm		
Chloride	≤0.5 ppm	As	≤0.01 ppm	Ni	≤0.2 ppm		
Phosphate	≤2 ppm	Cd	≤0.1 ppm	Pb	≤0.2 ppm		

Code	Size	Packaging	Notes
408133	500 ml	Glass bottle PVC coated	

Nitric acid 69.5%

Acido nitrico 69,5% • Acide nitrique 69.5% • Acido nítrico 69.5%

HNO_3
Molecular Weight: 63,01
CAS: 7697-37-2

Classification transport
ONU: 2031
Transport Hazard class: 8
Packing group II

Danger
H272-H314-HEU071
P221-P264-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Nitric acid 69.5% > RS - VLSI For electronic use

RS

Code	Size	Packaging	Notes
527671	1 l	Plastic bottle	
527670	2.5 l	Glass bottle	

For specifications, contact our customer service for a certificate of analysis

Nitric acid 69.5% > RS - RSE - For electronic use

RS

Description	Clear colourless liquid	As	≤0.005 ppm	Fe	≤0.1 ppm	Pt	≤0.02 ppm
Identification	Positive	Au	≤0.05 ppm	Ga	≤0.02 ppm	Sb	≤0.01 ppm
Density at 20° C	1.408 ÷ 1.418	B	≤0.01 ppm	In	≤0.02 ppm	Si	≤0.1 ppm
Assay (acidimetric)	69.1 ÷ 69.9 %	Ba	≤0.05 ppm	K	≤0.1 ppm	Sn	≤0.02 ppm
Chloride	≤0.05 ppm	Be	≤0.02 ppm	Li	≤0.02 ppm	Sr	≤0.02 ppm
Phosphate	≤0.1 ppm	Bi	≤0.02 ppm	Mg	≤0.1 ppm	Ta	≤0.1 ppm
Heavy metals (Pb)	≤0.05 ppm	Ca	≤0.1 ppm	Mn	≤0.01 ppm	Ti	≤0.01 ppm
Residue on ignition	≤2 ppm	Cd	≤0.005 ppm	Mo	≤0.05 ppm	Tl	≤0.02 ppm
Sulphate	≤0.5 ppm	Co	≤0.01 ppm	Na	≤0.3 ppm	V	≤0.01 ppm
Ag	≤0.02 ppm	Cr	≤0.01 ppm	Ni	≤0.01 ppm	Zn	≤0.05 ppm
Al	≤0.05 ppm	Cu	≤0.005 ppm	Pb	≤0.02 ppm	Zr	≤0.01 ppm

Code	Size	Packaging	Notes
408097	1 l	Glass bottle	
408098	2.5 l	Glass bottle	

Nitric acid 69.5% > RS - MOS For electronic use

RS

Description	Clear colourless liquid	As	≤0.005 ppm	Fe	≤0.1 ppm	Pt	≤0.05 ppm
Identification	Positive	Au	≤0.05 ppm	Ga	≤0.02 ppm	Sb	≤0.01 ppm
Density at 20° C	1.408 ÷ 1.418	B	≤0.01 ppm	In	≤0.02 ppm	Sn	≤0.02 ppm
Assay (acidimetric)	69.1 ÷ 69.9 %	Ba	≤0.05 ppm	K	≤0.1 ppm	Sr	≤0.02 ppm
Chloride	≤0.05 ppm	Be	≤0.02 ppm	Li	≤0.02 ppm	Ta	≤0.1 ppm
Phosphate	≤0.1 ppm	Bi	≤0.02 ppm	Mg	≤0.1 ppm	Ti	≤0.05 ppm
Heavy metals (Pb)	≤0.05 ppm	Ca	≤0.1 ppm	Mn	≤0.01 ppm	Tl	≤0.05 ppm
Residue on ignition	≤2 ppm	Cd	≤0.005 ppm	Mo	≤0.05 ppm	V	≤0.05 ppm
Sulphate	≤0.5 ppm	Co	≤0.01 ppm	Na	≤0.3 ppm	Zn	≤0.05 ppm
Ag	≤0.02 ppm	Cr	≤0.01 ppm	Ni	≤0.01 ppm	Zr	≤0.05 ppm
Al	≤0.05 ppm	Cu	≤0.005 ppm	Pb	≤0.02 ppm		

Code	Size	Packaging	Notes
408151	1 l	Glass bottle	
408152	2.5 l	Glass bottle	

Nitric acid 69.5% > RPE - For analysis - ISO - ACS - Reag.Ph.Eur. - Reag.USP

RPE

Description	Clear liquid	Nitrite	≤35 ppm	Cd	≤0.005 ppm	Na	≤0.5 ppm
Colour (APHA)	≤10	Silicate	≤1 ppm	Co	≤0.01 ppm	Ni	≤0.05 ppm
Identification	Positive	Sulphate	≤0.5 ppm	Cr	≤0.1 ppm	Pb	≤0.02 ppm
Hg	≤10 ppb	Ag	≤0.02 ppm	Cu	≤0.01 ppm	Sr	≤0.02 ppm
Density at 20° C	1.408 ÷ 1.416	Al	≤0.05 ppm	Fe	≤0.2 ppm	Ti	≤0.1 ppm
Chloride	≤0.1 ppm	As	≤0.005 ppm	K	≤0.1 ppm	Tl	≤0.05 ppm
Residue on evaporation	≤5 ppm	Ba	≤0.1 ppm	Li	≤0.02 ppm	V	≤0.05 ppm
Phosphate	≤0.5 ppm	Be	≤0.02 ppm	Mg	≤0.1 ppm	Zn	≤0.01 ppm
Heavy metals (Pb)	≤0.2 ppm	Bi	≤0.1 ppm	Mn	≤0.01 ppm	Assay (acidimetric)	69.1 ÷ 69.9 %
Sulphated ash	≤4 ppm	Ca	≤5 ppm	Mo	≤0.05 ppm		

Code	Size	Packaging	Notes
408071	1 l	Glass bottle	
408076	1 l	Glass bottle PVC coated	
524530	1 l	Plastic bottle	
408072	2.5 l	Glass bottle	
524531	2.5 l	Plastic bottle	
408075	34 kg	Plastic drum	

Nitric acid 67-70%

Acido nitrico 67-70% • Acide nitrique 67-70% • Acido nítrico 67-70%

HNO_3
Molecular Weight: 63,01
CAS: 7697-37-2

Classification transport
ONU: 2031
Transport Hazard class: 8
Packing group II

Danger
H272-H314-HEU071
P221-P264-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Nitric acid 67-70% > RS - Superpure - For trace analysis at ppb level

RS

Code	Size	Packaging	Notes
408115	500 ml	Plastic bottle	
408116	1 l	Plastic bottle	
408117	2.5 l	Plastic bottle	

Nitric acid 67-69%

Acido nitrico 67-69% • Acide nitrique 67-69% • Acido nítrico 67-69%

HNO_3
Molecular Weight: 63,01
CAS: 7697-37-2

Classification transport
ONU: 2031
Transport Hazard class: 8
Packing group II

Danger
H272-H314-HEU071
P221-P264-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Nitric acid 67-69% > RS - Ultrapure - For trace analysis at ppt level

RS

Description	Clear colourless liquid	Mg	≤ 10 ppt	Ce	≤ 10 ppt	Pd	≤ 20 ppt
Identification	Positive	Mn	≤ 10 ppt	Cs	≤ 10 ppt	Pt	≤ 20 ppt
Ag	≤ 10 ppt	Mo	≤ 10 ppt	Dy	≤ 1 ppt	Pr	≤ 1 ppt
Al	≤ 20 ppt	Na	≤ 10 ppt	Er	≤ 1 ppt	Re	≤ 10 ppt
As	≤ 20 ppt	Ni	≤ 20 ppt	Eu	≤ 1 ppt	Rh	≤ 10 ppt
B	≤ 10 ppt	Pb	≤ 10 ppt	Gd	≤ 1 ppt	Rb	≤ 10 ppt
Ba	≤ 10 ppt	Sn	≤ 20 ppt	Ga	≤ 10 ppt	Ru	≤ 20 ppt
Be	≤ 10 ppt	Sr	≤ 10 ppt	Ge	≤ 10 ppt	Sm	≤ 1 ppt
Bi	≤ 10 ppt	Tl	≤ 10 ppt	Au	≤ 20 ppt	Sc	≤ 10 ppt
Ca	≤ 10 ppt	Ti	≤ 10 ppt	Hf	≤ 10 ppt	Te	≤ 1 ppt
Cd	≤ 10 ppt	V	≤ 10 ppt	Ho	≤ 1 ppt	Tb	≤ 1 ppt
Co	≤ 10 ppt	Zn	≤ 10 ppt	In	≤ 1 ppt	Tm	≤ 1 ppt
Cr	≤ 10 ppt	Zr	≤ 10 ppt	La	≤ 1 ppt	W	≤ 10 ppt
Cu	≤ 10 ppt	Assay (acidimetric)	67 ÷ 69 %	Li	≤ 10 ppt	Yb	≤ 1 ppt
Fe	≤ 10 ppt	U	≤ 1 ppt	Lu	≤ 1 ppt	Y	≤ 1 ppt
Hg	≤ 50 ppt	Th	≤ 1 ppt	Nd	≤ 1 ppt		
K	≤ 10 ppt	Sb	≤ 10 ppt	Nb	≤ 1 ppt		

Code	Size	Packaging	Notes
408051	500 ml	Plastic bottle	

Nitric acid 67.5% (42Be)

Acido nitrico 67.5% (42Be) • Acide nitrique 67.5% (42Be) • Acido nítrico 67.5% (42Be)

HNO_3
Molecular Weight: 63,01
CAS: 7697-37-2

Classification transport
ONU: 2031
Transport Hazard class: 8
Packing group II

Danger
H272-H314-HEU071
P221-P264-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Nitric acid 67.5% (42Be) > RPE - For analysis

RPE

Assay (acidimetric)	65.5 - 69.7 %	Heavy metals (Pb)	≤ 0.2 ppm	Co	≤ 0.01 ppm	Na	≤ 0.2 ppm
Identification (I.R.)	Positive	Ag	≤ 0.02 ppm	Cr	≤ 0.1 ppm	Ni	≤ 0.02 ppm
Colour	≤ 10 APHA	Al	≤ 0.05 ppm	Cu	≤ 0.01 ppm	Pb	≤ 0.02 ppm
Density at 20°C	1.39 - 1.42	As	≤ 0.005 ppm	Fe	≤ 0.2 ppm	Sr	≤ 0.02 ppm
Residue on evaporation	≤ 4 ppm	Ba	≤ 0.1 ppm	K	≤ 0.05 ppm	Ti	≤ 0.01 ppm
Silicate	≤ 1 ppm	Be	≤ 0.02 ppm	Li	≤ 0.02 ppm	Tl	≤ 0.02 ppm
Chloride	≤ 0.1 ppm	Bi	≤ 0.1 ppm	Mg	≤ 0.05 ppm	V	≤ 0.01 ppm
Sulphate	≤ 0.5 ppm	Ca	≤ 0.5 ppm	Mn	≤ 0.02 ppm	Zn	≤ 0.05 ppm
Phosphate	≤ 0.5 ppm	Cd	≤ 0.005 ppm	Mo	≤ 0.02 ppm		

Code	Size	Packaging	Notes
528530	5 l	Tank	

Nitric acid 67.5% (42Be) > RE - Pure

RE

Description	Clear colourless liquid	Residue on ignition	≤50 ppm	Heavy metals (Pb)	≤10 ppm
Identification	Positive	Chloride	≤30 ppm	Fe	≤10 ppm
Density at 20° C	1.395 ÷ 1.415	Sulphate	≤50 ppm	Assay (acidimetric)	65.0 ÷ 70.0 %

Code	Size	Packaging	Notes
305502	2.5 l	Glass bottle	
305501	40 kg	Plastic tank	
305505	70 kg	Plastic tank	

Nitric acid 65%

Acido nitrico 65% • Acide nitrique 65% • Acido nítrico 65%

HNO_3
Molecular Weight: 63,01
CAS: 7697-37-2

Classification transport
ONU: 2031
Transport Hazard class: 8
Packing group II

Danger
H272-H314-HEU071
P221-P264-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Nitric acid 65% > RS - RSE - For electronic use

RS

Description	Clear colourless liquid	As	≤0.005 ppm	Fe	≤0.1 ppm	Pt	≤0.05 ppm
Identification	Positive	Au	≤0.05 ppm	Ga	≤0.02 ppm	Sb	≤0.01 ppm
Density at 20° C	1.390 ÷ 1.410	B	≤0.01 ppm	In	≤0.02 ppm	Sn	≤0.02 ppm
Assay (acidimetric)	64.0 ÷ 66.0 %	Ba	≤0.05 ppm	K	≤0.1 ppm	Sr	≤0.02 ppm
Chloride	≤0.05 ppm	Be	≤0.02 ppm	Li	≤0.02 ppm	Ta	≤0.1 ppm
Phosphate	≤0.1 ppm	Bi	≤0.02 ppm	Mg	≤0.1 ppm	Ti	≤0.05 ppm
Heavy metals (Pb)	≤0.05 ppm	Ca	≤0.1 ppm	Mn	≤0.01 ppm	Tl	≤0.05 ppm
Residue on ignition	≤2 ppm	Cd	≤0.005 ppm	Mo	≤0.05 ppm	V	≤0.05 ppm
Sulphate	≤0.5 ppm	Co	≤0.01 ppm	Na	≤0.3 ppm	Zn	≤0.05 ppm
Ag	≤0.02 ppm	Cr	≤0.01 ppm	Ni	≤0.01 ppm	Zr	≤0.05 ppm
Al	≤0.05 ppm	Cu	≤0.005 ppm	Pb	≤0.02 ppm		

Code	Size	Packaging	Notes
408101	1 l	Glass bottle	
408102	2.5 l	Glass bottle	
408103	260 kg	Polythene-metal drum	

Nitric acid 65% > RS - For enviromental analysis - ISO

RS

Description	Clear colourless liquid	Ag	≤0.02 ppm	Cr	≤0.1 ppm	Na	≤0.5 ppm
Identification	Positive	Al	≤0.05 ppm	Cu	≤0.01 ppm	Ni	≤0.05 ppm
Density at 20° C	1.390 ÷ 1.410	As	≤0.005 ppm	Fe	≤0.2 ppm	Pb	≤0.02 ppm
Chloride	≤0.1 ppm	Ba	≤0.1 ppm	Hg	≤0.005 ppm	Sr	≤0.02 ppm
Phosphate	≤0.5 ppm	Be	≤0.02 ppm	K	≤0.1 ppm	Ti	≤0.1 ppm
Heavy metals (Pb)	≤0.2 ppm	Bi	≤0.1 ppm	Li	≤0.02 ppm	Tl	≤0.05 ppm
Residue on ignition	≤4 ppm	Ca	≤0.5 ppm	Mg	≤0.1 ppm	V	≤0.05 ppm
Silicate	≤1 ppm	Cd	≤0.005 ppm	Mn	≤0.01 ppm	Zn	≤0.05 ppm
Sulphate	≤0.5 ppm	Co	≤0.01 ppm	Mo	≤0.05 ppm	Assay (acidimetric)	64 ÷ 66 %

Code	Size	Packaging	Notes
407951	1 l	Glass bottle	
407952	2.5 l	Glass bottle	

Low content in Hg

Nitric acid 65% > RPE - For analysis - ISO

RPE

Description	Clear colourless liquid	Ag	≤0.02 ppm	Cr	≤0.1 ppm	Ni	≤0.05 ppm
Identification	Positive	Al	≤0.05 ppm	Cu	≤0.01 ppm	Pb	≤0.02 ppm
Density at 20° C	1.390 ÷ 1.410	As	≤0.005 ppm	Fe	≤0.2 ppm	Sr	≤0.02 ppm
Chloride	≤0.1 ppm	Ba	≤0.1 ppm	K	≤0.1 ppm	Ti	≤0.1 ppm
Phosphate	≤0.5 ppm	Be	≤0.02 ppm	Li	≤0.02 ppm	Tl	≤0.05 ppm
Heavy metals (Pb)	≤0.2 ppm	Bi	≤0.1 ppm	Mg	≤0.1 ppm	V	≤0.05 ppm
Residue on ignition	≤4 ppm	Ca	≤0.5 ppm	Mn	≤0.01 ppm	Zn	≤0.05 ppm
Silicate	≤1 ppm	Cd	≤0.005 ppm	Mo	≤0.05 ppm	Assay (acidimetric)	64 ÷ 66 %
Sulphate	≤0.5 ppm	Co	≤0.01 ppm	Na	≤0.5 ppm		

Code	Size	Packaging	Notes
408021	1 l	Glass bottle PVC coated	
408022	1 l	Glass bottle	
524535	1 l	Plastic bottle	
408025	2.5 l	Glass bottle	
524536	2.5 l	Plastic bottle	
408027	34 kg	Plastic drum	

Nitric acid 65% > RE - Pure

RE

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 20° C ..... 1.390 ÷ 1.410
Chloride ..... ≤10 ppm
Heavy metals (Pb) ..... ≤10 ppm
Residue on ignition ..... ≤500 ppm
Sulphate ..... ≤100 ppm
As ..... ≤1 ppm
Fe ..... ≤50 ppm
Assay (acidimetric) ..... 64 ÷ 66 %

Code	Size	Packaging	Notes
305201	1 l	Glass bottle	
305207	2.5 l	Glass bottle	
305205	34 kg	Drum	
305202	34 kg	Plastic drum	

Nitric acid 18%

Acido nitrico 18% • Acide nitrique 18% • Acido nítrico 18%

HNO_3
Molecular Weight: 63,01
CAS: 7697-37-2

Classification transport
ONU: 2031
Transport Hazard class: 8
Packing group II

Danger
H314
P264-P260h-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Nitric acid 18% > RS - RSE - For electronic use

RS

Assay ..... 17 - 19 %

Code	Size	Packaging	Notes
408191	1 l	Glass bottle	

Nitric acid 8 mol/l (8N)

Acido nitrico 8 mol/l (8N) • Acide nitrique 8 mol/l (8N) • Acido nítrico 8 mol/l (8N)

HNO_3
Molecular Weight: 63,01
CAS: 7697-37-2

Classification transport
ONU: 2031
Transport Hazard class: 8
Packing group II

Danger
H314
P264-P260h-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Nitric acid 8 mol/l (8N) > RPE - For analysis

RPE

Assay (potentiomety) ..... 7.984 - 8.016 N

Code	Size	Packaging	Notes
PS0311/20	2.5 l	Plastic bottle	

Nitric acid 7 mol/l (7N)

Acido nitrico 7 mol/l (7N) • Acide nitrique 7 mol/l (7N) • Acido nítrico 7 mol/l (7N)

HNO_3
Molecular Weight: 63,01
CAS: 7697-37-2

Classification transport
ONU: 2031
Transport Hazard class: 8
Packing group II

Danger
H314
P264-P260h-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Nitric acid 7 mol/l (7N) > RS - For analysis

RS

Assay (potentiomety) ..... 6.993 - 7.007 N
Chloride (Cl-) ..... ≤ 0.3 mg/Kg

Code	Size	Packaging	Notes
PS0724/42	20 l	Plastic tank	

Nitric acid 2 mol/l (2N)

Acido nitrico 2 mol/l (2N) • Acide nitrique 2 mol/l (2N) • Acido nítrico 2 mol/l (2N)

HNO_3
Molecular Weight: 63,01
CAS: 7697-37-2

Classification transport
ONU: 2031
Transport Hazard class: 8
Packing group II

Danger
H314
P264-P260h-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Nitric acid 2 mol/l (2N) > RPE - For analysis

RPE

Description ..... Clear colourless liquid Assay (potentiometry) ..... 1.998 - 2.002 N NIST 723 ..... e

Code	Size	Packaging	Notes
408185000	5 l	Plastic tank	

Volumetric solution ready-to-use : 2N. Traceable to NIST

Nitric acid 1 mol/l (1N)

Acido nitrico 1 mol/l (1N) • Acide nitrique 1 mol/l (1N) • Acido nítrico 1 mol/l (1N)

HNO_3
Molecular Weight: 63,01
CAS: 7697-37-2

Classification transport
ONU: 2031
Transport Hazard class: 8
Packing group II

Danger
H314
P264-P260h-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Nitric acid 1 mol/l (1N) > RPE - For analysis

RPE

Description ..... Clear colourless liquid Assay (potentiometry) ..... 0.999 - 1.001 N NIST 723 ..... e

Code	Size	Packaging	Notes
408176000	500 ml	Plastic bottle	
408171000	1 l	Plastic bottle	

Volumetric solution ready-to-use : 1N. Traceable to NIST

Nitric acid 0.1 mol/l (0.1N)

Acido nitrico 0.1 mol/l (0.1N) • Acide nitrique 0.1 mol/l (0.1N) • Acido nítrico 0.1 mol/l (0.1N)

HNO_3
Molecular Weight: 63,01
CAS: 7697-37-2

Nitric acid 0.1 mol/l (0.1N) > RPE - For analysis

RPE

Description ..... Clear colourless liquid Assay (potentiometry) ..... 0.0999 - 0.1001 N NIST 723 ..... e

Code	Size	Packaging	Notes
408206000	500 ml	Plastic bottle	

6.301 g of HNO3. Volumetric solution ready-to-use : 0. 1N. Traceable to NIST

Nitric acid 0.1 mol/l (0.1N) > RPE - NORMEX - For analysis

RPE

Description ..... Clear colourless liquid Identification ..... Positive Titration factor ..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
408231		Glass ampoule	Volume : 55 ml

6,301 g HNO3. Volumetric concentrated solution to prepare 1 L of solution 0,1 N

Nitric acid, dilute

Acido nitrico diluito • Acide nitrique dilué • Acido nítrico diluido

HNO_3
Molecular Weight: 63,01
CAS: 7697-37-2

Classification transport
ONU: 2031
Transport Hazard class: 8
Packing group II

Danger
H314
P264-P260h-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Nitric acid, dilute > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611058402	100 ml	Plastic bottle	Ref Ph.Eur 1058402
611058409	250 ml	Plastic bottle	Ref Ph.Eur 1058402

Nitric acid cerium salt ▶ Cerium (III) nitrate hexahydrate

Nitrilotriacetic acid
Acido nitrilotriacetico • Acide nitrilotriacétique • Acido nitrilotriacético

Synonym:
Nitrilotriacetic acid
NTA

$N(CH_2COOH)_3$
Molecular Weight: 191,15
CAS: 139-13-9
EEC-N: 205-355-7

Warning
H302
P264-P270-P330-P301+P312a-P501a

Nitrilotriacetic acid > RPE - For analysis — RPE

Description ..... White powder Identification (I.R.) ..... Conform Assay (complexometric) ..... ≥ 98.5 %

Code	Size	Packaging	Notes
408242	100 g	Glass bottle	

Nitrite standard solution
Nitriti standard soluzione • Nitrite solution standard • Nitrito, solución patrón

Nitrite standard solution > RS - Standard solution for ion chromatography — RS

Code	Size	Packaging	Notes
503321	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503323	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

m-Nitrobenzaldehyde
m-Nitrobenzaldeide • m-Nitrobenzaldéhyde • m-Nitrobenzaldehyde

$NO_2C_6H_4CHO$
Molecular Weight: 151,12
CAS: 99-61-6
EEC-N: 202-772-6

Warning
H315-H319-H335
P264-P271-P304+P340-P305+P351+P338-P312a-P332+P313

m-Nitrobenzaldehyde > RE - Pure — RE

Description ..... Yellowish crystalline powder Melting point ..... 56 ÷ 59 ° C Assay (GLC) ..... ≥ 98.5 %
Identification ..... Positive Water ..... ≤ 0.5 %

Code	Size	Packaging	Notes
465142	25 g	Glass bottle	

Nitrobenzene
Nitrobenzene • Nitrobenzène • Nitrobenceno

$C_6H_5NO_2$
Molecular Weight: 123,11
CAS: 98-95-3
EEC-N: 202-716-0

Classification transport
ONU: 1662
Transport Hazard class: 6.1
Packing group II

Danger
H301-H311-H331-H351-H360F-H372-H412-HA26
P264-P273-P271-P304+P340-P301+P310a-P308+P313

Nitrobenzene > RPE - For analysis - ACS — RPE

Description ..... Yellow clear liquid Residue on evaporation ..... ≤ 50 ppm Acidi solub. in acqua ..... ≤ 0.0005 meq/g
Identification ..... Positive Chloride ..... ≤ 5 ppm Assay (GLC) ..... ≥ 99 %

Code	Size	Packaging	Notes
465222	1 l	Glass bottle	

m-Nitrobenzoic acid

Acido m-nitrobenzoico • Acide m-nitrobenzoique • Acido m-nitrobenzoico

Synonym:
3-Nitrobenzoic acid

$NO_2C_6H_4COOH$
Molecular Weight: 167,12
CAS: 121-92-6
EEC-N: 204-508-5

Warning
H302
P264-P270-P330-P301+P312a-P501a

m-Nitrobenzoic acid > RPE - For analysis

RPE

Description ..... Yellowish crystalline powder
Identification ..... Positive
Melting point..... 141 ÷ 142 ° C
Loss on drying ..... ≤0.5 %
Total chlorine .....≤20 ppm
Methyl alcohol insolub .....≤100 ppm
Heavy metals (Pb).....≤10 ppm
Residue on ignition.....≤200 ppm
Total sulphur .....≤20 ppm
Fe .....≤10 ppm
Assay (acidimetric) ..... ≥99 %

Code	Size	Packaging	Notes
408414	100 g	Glass bottle	

Nitroethane

Nitroetano • Nitroéthane • Nitroetano

$CH_3CH_2NO_2$
Molecular Weight: 75,07
CAS: 79-24-3
EEC-N: 201-188-9

Classification transport
ONU: 2842
Transport Hazard class: 3
Packing group III

Warning
H226-H302-H332
P210-P241-P264-P303+P361+P353-P304+P340-P403+P235

Nitroethane > RPE - For analysis

RPE

Description .....Clear liquid
Identification .....Positive
Density at 20° C .....1.046 ÷ 1.050
Refractive index at 20°C.1.3887 ÷ 1.3947
Boiling point..... 114.5 ÷ 115.5 ° C
Water (K.F.) ..... ≤ 0.2 %
Assay (GLC) ..... ≥ 98 %

Code	Size	Packaging	Notes
465502	1 l	Glass bottle	

p-Nitrophenol

p-Nitrofenolo • p-Nitrophénol • p-Nitrofenol

Synonym:
4-Nitrophenol

$NO_2C_6H_4OH$
Molecular Weight: 139,11
CAS: 100-02-7
EEC-N: 202-811-7

Classification transport
ONU: 1663
Transport Hazard class: 6.1
Packing group III

Warning
H302-H312-H332-H373
P264-P271-P260-P304+P340-P314-P330

p-Nitrophenol > RPE - For analysis

RPE

Description ..... Yellow crystals
Identification ..... Positive
Sensitivity(pH 5.0-7.6) ..... Conform
Melting point..... 109 ÷ 114 ° C
Residue on ignition.....≤0.1 %
Colour change.....Colourless-yellow

Code	Size	Packaging	Notes
465744	100 g	Glass bottle	

Acid-base indicator

p-Nitrophenol solution 0,1% in water

p-Nitrofenolo soluzione 0.1% in acqua • p-Nitrophénol solution 0.1% dans l'eau • p-Nitrofenol solución 0.1% en agua

Synonym:
4-Nitrophenol

p-Nitrophenol solution 0,1% in water > RPE - For analysis

RPE

Description ..... Yellow clear liquid
Identification ..... Positive
pH range ..... 5.0 - 7.0

Code	Size	Packaging	Notes
E465776	500 ml	Bottle	

p-Nitroso-n,n-dimethylaniline

p-Nitroso-n,n-dimetilanilina • p-Nitroso-n,n-diméthylaniline • p-Nitroso-n,n-dimetilanilina

Synonym:
N,N-Dimethyl-4-nitroaniline
4-Nitroso-N,N-dimethylaniline

$NOC_6H_4N(CH_3)_2$
Molecular Weight: 150,18
CAS: 138-89-6
EEC-N: 205-343-1

Classification transport
ONU: 1369
Transport Hazard class: 4.2
Packing group II

Warning
H226-H315-H317-H410
P210-P241-P264-P273-P303+P361+P353-P403+P235

p-Nitroso-n,n-dimethylaniline > RPE - For analysis

RPE

Description ..... Green powder
Identification ..... Positive
Melting point ..... 83.5 ÷ 86.5 ° C
Residue on ignition ..... ≤ 0.1 %
Assay (non-aqueos medium) ..... ≥ 98.5 %

Code	Size	Packaging	Notes
466182	25 g	Glass bottle	

Nonylphenol ethoxylated 10 ETO

Nonilfenolo etossilato 10 ETO • Nonylphénol éthoxylate 10 ETO • Nonilfenol etoxilato 10 ETO

Synonym:
4-Nonylphenyl-polyethylene glycol

CAS: 9016-45-9
EEC-N: 500-024-6

Classification transport
ONU: 3082
Transport Hazard class: 9
Packing group III

Warning
H302-H315-H319-H411
P264-P273-P305+P351+P338-P330-P332+P313-P337+P313

Nonylphenol ethoxylated 10 ETO > RS - Standard for detection of surfactants

RS

Description ..... Yellow liquid
Identification ..... Positive
Assay (at production) ..... ≥90 %

Code	Size	Packaging	Notes
466361	10 g	Glass bottle	

Nuclear fast red

Rosso solido nucleare • Rouge nucléaire • Rojo nuclear sólido

Synonym:
4-Amino-9,10-dihydro-1,3-dihydroxy-9,10-dioxo-2-anthracenesulfonic acid sodium salt

$C_{14}H_8NNaO_7S$
Molecular Weight: 357,28
CAS: 6409-77-4
EEC-N: 229-088-0

Nuclear fast red > RS - For microscopy - C.I. 60760

RS

Description ..... Red brown powder
Identification ..... Positive

Code	Size	Packaging	Notes
477011	10 g	Glass bottle	
477012	25 g	Glass bottle	

Dye for cytology

n-Octane
n-Ottano • n-Octane • n-Octano

$CH_3(CH_2)_6CH_3$
Molecular Weight: 114,23
CAS: 111-65-9
EEC-N: 203-892-1

Classification transport
ONU: 1262
Transport Hazard class: 3
Packing group II

Danger
H225-H315-H336-H304-H410
P210-P241-P303+P361+P353-P301+P310a-P405-P501a

n-Octane > RPE - For analysis
RPE

Description ..... Clear colourless liquid
Identification ..... Positive
Ready carbonizable substances..... Conform
Density at 20° C ..... 0.697 ÷ 0.707
Refractive index at 20°C. 1.3940 ÷ 1.4010
Boiling point..... 125.0 ÷ 126.0 ° C
Water (K.F.) ..... ≤100 ppm
Residue on evaporation ..... ≤10 ppm
Acidity (caprilic acid)..... ≤17 ppm
Alcalinity (NH3)..... ≤0.2 ppm
Subst. reducing KMnO4 ..... ≤20 ppm (5m)
Total sulphur ..... ≤50 ppm
Assay (GLC) ..... 99 ÷ 100 %

Code	Size	Packaging	Notes
467562	1 l	Glass bottle	

n-Octane > RE - Pure
RE

Description ..... Clear colourless liquid
Identification ..... Positive
Colour ..... ≤ 10 APHA
Density at 20° C ..... 0.697 ÷ 0.707
Refractive index at 20°C. 1.3925 ÷ 1.4025
Boiling point..... 124.5 ÷ 126.5 ° C
Residue on evaporation ..... ≤30 ppm
Acidity (caprilic acid)..... ≤50 ppm
Total sulphur ..... ≤50 ppm
Assay (GLC) ..... ≥95 %

Code	Size	Packaging	Notes
356661	1 l	Glass bottle	

Octane 80 blend
Miscela ottano 80 • Mélange octane 80 • Mezcla octano 80

$CH_3(CH_2)_6CH_3$
Molecular Weight: 114,23
CAS: 111-65-9

Classification transport
ONU: 1993
Transport Hazard class: 3
Packing group II

Danger
H225-H315-H336-H400-H410
P210-P241-P264-P273-P303+P361+P353-P304+P340-P403+P235

Octane 80 blend > RE - ASTM
RE

Clear,colourless liquid..... Conform
Isooctane (ASTM) ..... 79.9 - 80.1 % (V/V)
n-Heptane (ASTM)..... 19.9 - 20.1 % (V/V)

Code	Size	Packaging	Notes
525993	25 l	Drum	

Octanoic acid ▶ n-Caprylic acid

Octanol-1
Alcole n-ottilico • Octanol-1 • Octanol-1

Synonym:
1-Octanol
Capryl alcohol

$CH_3(CH_2)_6CH_2OH$
Molecular Weight: 130,23
CAS: 111-87-5
EEC-N: 203-917-6

Warning
H302-H315-H319
P264-P280g-P305+P351+P338-P330-P332+P313-P337+P313

Octanol-1 > RPE - For analysis
RPE

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 25° C ..... 0.815 ÷ 0.830
Refractive index at 20°C..... 1.425 ÷ 1.440
Boiling point..... 194.0 ÷ 196.0 °C
Melting point..... -16 ÷ -14 °C
Assay (GLC) ..... ≥ 99 %

Code	Size	Packaging	Notes
415002	100 ml	Glass bottle	
415003	1 l	Glass bottle	
415004	30 l	Plastic drum	

1-Octanesulphonic acid sodium salt

Acido 1-octansolfonico sale sodico • Acide 1-octanesulfonique sel sodique • Acido 1-octanosulfónico sal sódica

$C_8H_{17}NaO_3S$
Molecular Weight: 216,28
CAS: 5324-84-5
EEC-N: 226-195-4

1-Octanesulphonic acid sodium salt > RS - For ion pair chromatography

RS

Description ..... White crystalline powder
Water (K.F.) ..... ≤ 2 %
Assay ..... ≥ 98 %

Absorbance (0,25M)
At 200 nm ..... ≤ 0.10 AU
At 210 nm ..... ≤ 0.05 AU
At 220 nm ..... ≤ 0.04 AU
At 230 nm ..... ≤ 0.03 AU
At 240 nm ..... ≤ 0.01 AU
At 250 nm ..... ≤ 0.01 AU
At 260 nm ..... ≤ 0.01 AU

Code	Size	Packaging	Notes
405861	25 g	Glass bottle	
405862	100 g	Plastic bottle	
405863	1 kg	Plastic bottle	

1-Octanesulfonic acid sodium salt monohydrate

Acido 1-octansolfonico sale sodico monoidrato • Acide octanesulfonique sel sodique monohydraté • Acido 1-octanosulfónico sal sódica monohidrato

Synonym:
Sodium 1-octanesulfonate monohydrate
1-Octanesulfonic acid sodium salt monohydrate

$CH_3(CH_2)_7SO_3Na.H_2O$
Molecular Weight: 234,29
CAS: 207596-29-0

1-Octanesulfonic acid sodium salt monohydrate > RS - For ion pair chromatography

RS

Description ..... White crystalline powder
Loss on drying ..... 7.0 - 9.0 %
Assay ..... ≥ 99.0 %

Absorbance (0,25M)
At 200 nm ..... ≤ 0.3 AU
At 210 nm ..... ≤ 0.2 AU
At 220 nm ..... ≤ 0.1 AU
At 230 nm ..... ≤ 0.075 AU
At 240 nm ..... ≤ 0.05 AU
At 250 nm ..... ≤ 0.05 AU
At 260 nm ..... ≤ 0.04 AU

Code	Size	Packaging	Notes
405931	25 g	Glass bottle	
405932	100 g	Plastic bottle	

Oil of cedar wood

Olio di legno cedro condensato • Huile de cèdre condensée • Aceite de cedro condensado

Synonym:
Cedar oil
Cedarwood oil

CAS: 8002-27-9

Warning
H317-H412
P273-P280-P261-P272-P333+P313-P302+P352a

Oil of cedar wood > RS - For microscopy

RS

Description ..... Yellow colourless liquid
Identification ..... Positive
Density at 20°C ..... 0.990 ÷ 1.010

Code	Size	Packaging	Notes
466753	100 ml	Glass bottle	
466757	1 l	Glass bottle	

Immersion medium for microscopy

Oil Red O ▶ Red for oils O

Oil refined of almonds

Olio di mandorla raffinato • Huile d'amande raffinée • Aceite refinado de almendras

Synonym:
Almond oil

CAS: 8007-69-0

Oil refined of almonds > ERBApharm - According to pharmacopoeia : NF

ERBApharm

Description ..... Yellow colourless liquid
Identification ..... Positive
Relative density ..... 0.910 ÷ 0.915
Acid value ..... ≤ 0.5
Peroxide value ..... ≤ 5.0
Not saponifiable matt. ..... ≤ 0.9 %
Composition of fatty acids (GC). Conform NF
Sterol composition ..... Conform NF

Code	Size	Packaging	Notes
356251	1 l	Glass bottle	

Oleic acid
Acido oleico • Acide oléique • Acido oleico

Synonym:
cis-9-Octadecenoic acid
Elainic acid

$CH_3(CH_2)_7CH{:}CH(CH_2)_7COOH$
Molecular Weight: 282,45
CAS: 112-80-1
EEC-N: 204-007-1

Warning
H315-H319-H335
P264-P271-P280-P304+P340-P305+P351+P338-P312a

Oleic acid > RE - Pure
RE

Description ..... Clear yellow liquid
Identification ..... Positive
Density at 20° C ..... 0.890 ÷ 0.910
Acid value..... ≥ 195 mg KOH / g
Iodine value .....≥ 89 g / 100g

Code	Size	Packaging	Notes
305704	1 l	Glass bottle	
305701	24 kg	Drum	

Orange G
Arancio G • Orange G • Naranja G

Synonym:
1-Phenylazo-2-naphthol-6,8-disulfonic acid disodium salt
Acid orange 10

$C_{16}H_{10}N_2Na_2O_7S_2$
Molecular Weight: 452,36
CAS: 1936-15-8
EEC-N: 217-705-6

Orange G > RS - For microscopy - C.I. 16230
RS

Description ..... Red-orange powder
Identification ..... Positive
Maximum absorption..... 470 ÷ 520 nm
Loss on drying at 110°C..... ≤ 10.00 %

Code	Size	Packaging	Notes
423432	25 g	Glass bottle	

Dye for cytology

Orange II
Arancio II • Orange II • Naranja II

Synonym:
Acid Orange 7

$C_{16}H_{11}N_2NaO_4S$
Molecular Weight: 350,33
CAS: 633-96-5
EEC-N: 211-199-0

Orange II > RPE - For analysis - C.I. 15510
RPE

Description ..... Orange red powder
Identification ..... Positive

Code	Size	Packaging	Notes
423341	10 g	Glass bottle	

Dye for microscopy (histology). Indicator acid - base (pH 11.0 ÷ 13.0). For the extraction and determination of cationic surfactants

Orcein
Orceina • Orcéine • Orceina

Synonym:
Natural Red 28

CAS: 1400-62-0
EEC-N: 215-750-6

Warning
H302
P264-P270-P330-P301+P312a-P501a

Orcein > RS - For microscopy - C.I. Natural Red 28
RS

Description ..... Brown powder
Identification ..... Positive

Code	Size	Packaging	Notes
466858	5 g	Glass bottle	
466859	25 g	Glass bottle	

Dye for botanical and histology

Orthophosphoric acid 99%

Acido fosforico 99% • Acide phosphorique 99% • Acido orto-fosforico 99%

Synonym: *Phosphoric acid*

H_3PO_4
Molecular Weight: 98
CAS: 7664-38-2
EEC-N: 231-633-2

Classification transport
ONU: 3453
Transport Hazard class: 8
Packing group III

Danger
H314
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Orthophosphoric acid 99% > RPE - For analysis

RPE

Description ..... White deliquescent crystals	Nitrate ..... ≤2 ppm	Co ..... ≤5 ppm	Na ..... ≤50 ppm
Identification ..... Positive	Reducing subst as H3PO3 ..... ≤50 ppm	Cu ..... ≤5 ppm	Ni ..... ≤5 ppm
Chloride ..... ≤2 ppm	Silicate ..... ≤500 ppm	Fe ..... ≤10 ppm	Pb ..... ≤5 ppm
Fluoride ..... ≤5 ppm	Sulphate ..... ≤10 ppm	K ..... ≤20 ppm	Zn ..... ≤10 ppm
Ca, Mg and ppt by NH4OH ..... ≤50 ppm	As ..... ≤0.5 ppm	Mg ..... ≤10 ppm	Assay (acidimetric) ..... ≥99 %
Heavy metals (Pb) ..... ≤10 ppm	Cd ..... ≤5 ppm	Mn ..... ≤0.5 ppm	

Code	Size	Packaging	Notes
405967	1 kg	Plastic bottle	
405961	10 kg	Plastic jar	

Orthophosphoric acid 85%

Acido fosforico 85% • Acide phosphorique 85% • Acido orto-fosforico 85%

Synonym: *Phosphoric acid*

H_3PO_4
Molecular Weight: 98
CAS: 7664-38-2

Classification transport
ONU: 1805
Transport Hazard class: 8
Packing group III

Danger
H314
P264-P260h-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Orthophosphoric acid 85% > RS - VLSI For electronic use

RS

Code	Size	Packaging	Notes
527592	1 l	Plastic bottle	
527591	2.5 l	Glass bottle	

For specifications, contact our customer service for a certificate of analysis

Orthophosphoric acid 85% > RS - RSE - For electronic use

RS

Description ..... Clear liquid	Heavy metals (Pb) ..... ≤5 ppm	Ca ..... ≤20 ppm	Mg ..... ≤5 ppm
Colour (APHA) ..... ≤10	Nitrate ..... ≤3 ppm	Cd ..... ≤5 ppm	Mn ..... ≤0.5 ppm
Identification ..... Positive	Subst. reducing KMnO4 ..... ≤10 ppm	Co ..... ≤1 ppm	Na ..... ≤30 ppm
Density at 20° C ..... 1.689 ÷ 1.701	Sulphate ..... ≤5 ppm	Cu ..... ≤2 ppm	Ni ..... ≤3 ppm
Assay (acidimetric) ..... 85.0 ÷ 87.0 %	Volatile acid ..... ≤3 ppm	Fe ..... ≤5 ppm	Pb ..... ≤1 ppm
Ammonium ..... ≤5 ppm	Al ..... ≤0.5 ppm	Ga ..... ≤0.1 ppm	Sr ..... ≤5 ppm
Chloride ..... ≤1 ppm	As + Sb (as As) ..... ≤0.5 ppm	K ..... ≤5 ppm	Zn ..... ≤10 ppm
Fluoride ..... ≤5 ppm	Bi ..... ≤1 ppm	Li ..... ≤1 ppm	

Code	Size	Packaging	Notes
406022	1 l	Plastic bottle	
406021	2.5 l	Plastic bottle	

Orthophosphoric acid 85% > RPE - For analysis - ISO - ACS - Reag.Ph.Eur. - Reag.USP

RPE

Description ..... Clear liquid	Heavy metals (Pb) ..... ≤5 ppm	Cu ..... ≤2 ppm	Sb ..... ≤4 ppm
Colour (APHA) ..... ≤10	Nitrate ..... ≤3 ppm	Fe ..... ≤5 ppm	Zn ..... ≤10 ppm
Identification ..... Positive	Reducing substances ..... ≤25 ppm	K ..... ≤50 ppm	Assay (acidimetric) ..... 85 ÷ 87 %
Density at 20° C ..... 1.689 ÷ 1.701	Sulphate ..... ≤5 ppm	Mg ..... ≤10 ppm	Appearance of solution ..... Conform Ph. Eur.
Volatile acid ..... ≤10 ppm	As ..... ≤0.5 ppm	Mn ..... ≤0.5 ppm	Substances precipitated with ammonia ..... Conform Ph. Eur.
Water-insoluble matter ..... ≤10 ppm	Ca ..... ≤20 ppm	Na ..... ≤250 ppm	Phosphorous and hypophosphorous acid ... Conform Ph. Eur.
Chloride ..... ≤1 ppm	Cd ..... ≤5 ppm	Ni ..... ≤5 ppm	Alkali phosphates ..... Conform USP-NF
Fluoride ..... ≤5 ppm	Co ..... ≤1 ppm	Pb ..... ≤1 ppm	

Code	Size	Packaging	Notes
406002	1 l	Plastic bottle	
406005	2.5 l	Plastic bottle	
406003	40 kg	Plastic drum	

Orthophosphoric acid 85% > ERBApharm - According to pharmacopoeia : Ph.Eur.-USP-FU-Ph.Franc.-BP-DAB

ERBApharm

Description ..... Clear colourless liquid
Identification ..... Positive
Appearance of solution .....Conform Ph.Eur.
Hypophos. phosphor acid...Conform Ph.Eur.
Subst. ppt by NH4OH.....Conform Ph.Eur.
Nitrate ..... Conform USP-NF
Alkali phosphates ..... Conform USP-NF
Density at 20° C .....1.689 ÷ 1.701
Chloride.....≤50 ppm
Sulphate.....≤100 ppm
Heavy metals (Pb).....≤10 ppm
As .....≤2 ppm
Fe .....≤50 ppm
Assay (acidimetric) .....85 ÷ 88 %
Origin (BSE/TSE)..... Synthesis
Residual solvents (Current ICH).....Conform

Code	Size	Packaging	Notes
304061	1 l	Plastic bottle	
304062	2.5 l	Plastic bottle	
304063	40 kg	Plastic drum	

Orthophosphoric acid 85% > RE - Pure

RE

Description ..... Clear colourless liquid
Assay ..... 85.0 ÷ 86.0 %
Density at 20°C ..... 1.69 ÷ 1.71
Residue on ignition..... ≤ 20 ppm
Iron (Fe)..... ≤ 20 ppm
Chloride (Cl) ..... ≤ 5 ppm

Code	Size	Packaging	Notes
528535	5 l	Tank	

Orthophosphoric acid 75%

Acido fosforico 75% • Acide phosphorique 75% • Acido orto-fosfórico 75%

Synonym:
Phosphoric acid

H_3PO_4
Molecular Weight: 98
CAS: 7664-38-2

Classification transport
ONU: 1805
Transport Hazard class: 8
Packing group III

Danger
H314
P264-P260h-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Orthophosphoric acid 75% > RE - Pure

RE

Description ..... Clear liquid
Identification ..... Positive
Density at 20° C ..... 1.568 - 1.589
Chloride..... ≤5 ppm
Heavy metals (Pb)..... ≤10 ppm
Sulphate..... ≤120 ppm
As ..... ≤1 ppm
Fe ..... ≤10 ppm
Assay (acidimetric) ..... 74.0 - 76.0 %

Code	Size	Packaging	Notes
304051	1 l	Plastic bottle	
304054	2.5 l	Plastic bottle	
304052	85 kg	Plastic drum	

Orthophosphoric acid 10%

Acido fosforico 10% • Acide phosphorique 10% • Acido orto-fosfórico 10%

Synonym:
Phosphoric acid

H_3PO_4
Molecular Weight: 98
CAS: 7664-38-2
EEC-N: 231-633-2

Warning
H315-H319
P264-P280-P305+P351+P338-P332+P313-P337+P313-P302+P352a

Orthophosphoric acid 10% > RS - For analysis

RS

Density d20/4 ..... 1.048 - 1.059
Assay ..... 9 - 11 %

Code	Size	Packaging	Notes
PS0084/22	5 l	Plastic tank	
PS0084/42	20 l	Plastic tank	

Orthophosphoric acid-d3 85% in D2O

Acido fosforico-d3 85% in D20 • Acide phosphorique-d3 85% dans D20 • Acido orto-fosforico-d3 85% in D20

Synonym:
Phosphoric acid-d3 solution
Trideuterophosphoric acid

D_3O_4P
Molecular Weight: 101,02
CAS: 14335-33-2

Classification transport
ONU: 1760
Transport Hazard class: 8
Packing group II

Danger
H314-H318
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Orthophosphoric acid-d3 85% in D20 > RS - For NMR - min 99%

RS

Code	Size	Packaging	Notes
P5055	25 ml	Glass bottle	

Osmium standard solution
Osmio standard soluzione • Osmium solution standard • Osmio, solución patrón

Classification transport
ONU: 1789
Transport Hazard class: 8
Packing group III

Danger
H314
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Osmium standard solution > RS - Standard solution for ICP-MS
RS

Code	Size	Packaging	Notes
505758	100 ml	Plastic bottle	conc. 100 ppm Matrix : Hydrochloric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Osmium (VIII) oxide
Osmio tetrossido • Acide osmique • Osmio tetraóxido

Synonym:
Osmium tetroxide
Osmic acid

OsO_4
Molecular Weight: 254,2
CAS: 20816-12-0

Classification transport
ONU: 3287
Transport Hazard class: 6.1
Packing group II

Danger
H310-H332-H315-H318-H334
P264-P271-P284-P304+P340-P305+P351+P338-P342+P311a

Osmium (VIII) oxide > RPE - For analysis
RPE

Description ..... Yellow crystals
No volatile matter ..... ≤ 0.2 %
Identification ..... Positive
Melting point ..... 40.0 ÷ 42.0 ° C
Assay ..... ≥ 99.9 %
Non volat.substances ..... ≤ 0.2 %

Code	Size	Packaging	Notes
524712	5 x 5 ml	Glass ampoule	
524702	5 x 0.5 g	Glass ampoule	
408687	1 g	Glass ampoule	5 units / box

Osmolality Standards
Osmolalità Standards • Etalons d'osmolalité • Patrones de osmolalidad

Osmolality Standards > RS - For calibration
RS

Code	Size	Packaging	Notes
540301	12 x 5 ml	Glass ampoule	100mOsm/Kg H2O
540302	12 x 5 ml	Glass ampoule	1500mOsm/Kg H2O
540303	12 x 5 ml	Glass ampoule	200mOsm/Kg H2O
540304	12 x 5 ml	Glass ampoule	2000mOsm/Kg H2O
540305	12 x 5 ml	Glass ampoule	290mOsm/Kg H2O
540306	12 x 5 ml	Glass ampoule	300mOsm/Kg H2O
540307	12 x 5 ml	Glass ampoule	400mOsm/Kg H2O
540308	12 x 5 ml	Glass ampoule	500mOsm/Kg H2O
540309	12 x 5 ml	Glass ampoule	850mOsm/Kg H2O
540310	12 x 5 ml	Glass ampoule	900mOsm/Kg H2O

Osmolality Standards Protein Based
Osmolalità standard a base di proteine • Etalons d'osmolalité à base de protéines • Patrones de osmolalidad a base de proteínas

Osmolality Standards Protein Based > RS - For calibration
RS

Code	Size	Packaging	Notes
540351	12 x 5 ml	Glass ampoule	240mOsm/Kg H2O
540352	12 x 5 ml	Glass ampoule	280mOsm/Kg H2O
540353	12 x 5 ml	Glass ampoule	320mOsm/Kg H2O

Osmolality Standards Urine Based

Osmolalità Standards a base di urina • Etalons d'osmolalité à base d'urine • Patrones de osmolalidad a base de orina

Osmolality Standards Urine Based > RS - For calibration

RS

Code	Size	Packaging	Notes
540354	12 x 5 ml	Glass ampoule	300mOsm/Kg H2O
540355	12 x 5 ml	Glass ampoule	800mOsm/Kg H2O

Oxalic acid dihydrate

Acido ossalico diidrato • Acide oxalique dihydraté • Acido oxálico dihidrato

Synonym:
Ethanedioic acid dihydrate

$(COOH)_2.2H_2O$
Molecular Weight: 126,07
CAS: 6153-56-6
EEC-N: 205-634-3

Classification transport
ONU: 3261
Transport Hazard class: 8
Packing group III

Warning
H302-H312
P280-P264-P301+P312-P363-P501a

Oxalic acid dihydrate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description .....White crystals
Identification .....Positive
Substances darkened by sulphuric acid ..... Conform
Total nitrogen .....≤ 10 ppm
Chloride.....≤ 20 ppm
Water-insoluble matter .....≤ 50 ppm
Heavy metals (Pb).....≤ 5 ppm
Residue on ignition.....≤ 100 ppm
Ca.....≤ 10 ppm
Fe .....≤ 2 ppm
Assay (oxidimetric) .....99.5 ÷ 102.5 %
Sulphate.....≤ 50 ppm

Code	Size	Packaging	Notes
408736	500 g	Plastic bottle	
408737	1 kg	Plastic bottle	
408731	5 kg	Plastic jar	
408733	25 kg	Plastic bucket	

Oxalic acid dihydrate > RE - Pure

RE

Description .....White crystals
Identification ..... Positive
Fe .....≤ 15 ppm
Assay (acidimetric) ..... ≥ 99.5 %

Code	Size	Packaging	Notes
305757	1 kg	Plastic bottle	
305758	5 kg	Plastic jar	

Oxalic acid 0.5 mol/l (1N)

Acido ossalico 0.5 mol/l (1N) • Acide oxalique 0.5 mol/l (1N) • Acido oxálico 0.5 mol/l (1N)

Classification transport
ONU: 3264
Transport Hazard class: 8
Packing group III

Danger
H315-H318
P264-P280-P305+P351+P338-P332+P313-P302+P352a-P321

Oxalic acid 0.5 mol/l (1N) > RPE - For analysis

RPE

Description ..... Clear colourless liquid
Assay (potentiometry) ..... 0.998 - 1.002 N

Code	Size	Packaging	Notes
408826	500 ml	Glass bottle	

45,02 g of C2H2O4. Volumetric solution ready-to-use: 1 N. For oxydometry. Stabilized with sulfuric acid

Oxalic acid 0.05 mol/l (0.1N)

Acido ossalico 0.05 mol/l (0.1N) • Acide oxalique 0.05 mol/l (0.1N) • Acido oxálico 0.05 mol/l (0.1N)

$(COOH)_2$
Molecular Weight: 90.03
CAS: 144-62-7

Classification transport
ONU: 3264
Transport Hazard class: 8
Packing group III

Danger
H315-H318
P264-P280-P305+P351+P338-P332+P313-P302+P352a-P321

Oxalic acid 0.05 mol/l (0.1N) > RPE - For analysis

RPE

Description ..... Clear colourless liquid
Assay (potentiometry) ..... 0.0998 - 0.1002 N

Code	Size	Packaging	Notes
408856	500 ml	Glass bottle	

4,502 g of C2H2O4. Volumetric solution ready-to-use: 0,1 N. For oxydometry. Stabilized with sulfuric acid

Oxalic acid 0.05 mol/l (0.1N) > RPE - NORMEX - For analysis

RPE

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
408871		Plastic ampoule	Volume : 165 ml

Volumetric concentrated solution to prepare 1 L of solution 0,1 N

Oxalic acid 0.005 mol/l (0.01N)

Acido ossalico 0.005 mol/l (0.01N) • Acide oxalique 0.005 mol/l (0.01N) • Acido oxálico 0.005 mol/l (0.01N)

Classification transport
ONU: 3264
Transport Hazard class: 8
Packing group III

Danger
H315-H318
P264-P280-P305+P351+P338-P332+P313-P302+P352a-P321

Oxalic acid 0.005 mol/l (0.01N) > RPE - NORMEX - For analysis

RPE

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
408901		Plastic ampoule	Volume : 55 ml

Volumetric concentrated solution to prepare 1 L of solution 0,01 N

Oxalic acid diammonium salt ▶ Ammonium oxalate monohydrate

2,2'-Oxydiethanol ▶ Diethylene glycol

PABA ▶ p-Aminobenzoic acid

Palladium standard solution

Palladio standard soluzione • Palladium solution standard • Paladio, solución patrón

Palladium standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2 — RS

Code	Size	Packaging	Notes
615003600	100 ml	Plastic bottle	A 500 ppm solution Ref Ph.Eur 5003600

Palladium standard solution > RS - Standard solution for ICP-MS — RS

Code	Size	Packaging	Notes
505772	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505775	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Palladium standard solution > RS - Standard solution for ICP — RS

Code	Size	Packaging	Notes
503811	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
503815	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrochloric acid
503813	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
503817	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrochloric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Palladium standard solution > RS - Standard solution for AAS — RS

Code	Size	Packaging	Notes
507751	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid and hydrofluoric acid
507512	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Palladium (II) chloride

Palladio cloruro oso • Palladium chlorure • Paladio (II) cloruro

$PdCl_2$
Molecular Weight: 177,31
CAS: 7647-10-1
EEC-N: 231-596-2

Classification transport
ONU: 3260
Transport Hazard class: 8
Packing group III

Danger
H290-H318-H317
P280-P234-P303+P361+P353-P305+P351+P338-P390-P310a

Palladium (II) chloride > RPE - For analysis — RPE

Description ..... Red brown powder Identification ..... Positive Assay (gravimetric) ..... ≥59.5 % Pd

Code	Size	Packaging	Notes
467737	1 g	Glass bottle	
467731	10 g	Glass bottle	

Palladium nitrate 2 g/l solution

Palladio nitrato 2 g/L soluzione • Palladium nitrate 2 g/l • Paladio nitrato solución 2 g/l

$Pd(NO_3)_2$
Molecular Weight: 230,43 (an,)
CAS: 10102-05-3

Classification transport
ONU: 1760
Transport Hazard class: 8
Packing group III

Warning
H315-H319
P264-P280-P305+P351+P338-P332+P313-P337+P313-P302+P352a

Palladium nitrate 2 g/l solution > RS - Matrix modifiers for AAS-GTA

RS

Code	Size	Packaging	Notes
503198	50 ml	Plastic bottle	conc. 2g/l Pd(NO3) Matrix : Nitric acid

Papanicolaou Haematoxylin solution according to Harris

Papanicolaou Ematossilina soluzione secondo Harris • Papanicolaou Hématoxyline selon Harris • Papanicolaou Hematoxilina en solución según Harris

Danger
H318
P280-P305+P351+P338-P310a

Papanicolaou Haematoxylin solution according to Harris > RS - For histology

RS

Description .....Dark red liquid
Identification .....Positive
Max absorbance wave-length....555 ÷ 560 nm
Absorbance(lamba max) ..... ≥0.52 uA

Code	Size	Packaging	Notes
446462	500 ml	Plastic bottle	
446464	6 x 500 ml	Plastic bottle	
446461	1 l	Plastic bottle	
446465	6 x 1 l	Plastic bottle	
446463	2.5 l	Plastic bottle	
446466	4 x 2.5 l	Plastic bottle	

CE IVD

Papanicolaou solution EA 50

Papanicolaou soluzione EA 50 • Papanicolaou solution EA 50 • Papanicolaou solución EA 50

Classification transport
ONU: 1992
Transport Hazard class: 3
Packing group II

Danger
H225-H302-H312-H332-H319-H370-H373
P210-P241-P264-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

Papanicolaou solution EA 50 > RS - For histology

RS

Description .....Green clear liquid
Density at 20°C ..... ~ 0.83
Assorbanza 625-645 nm..... 0.40÷0.60
Identification ..... Positive
Assorbanza 510-530 nm..... 2.5÷2.9
Empirical test ..... Positive

Code	Size	Packaging	Notes
467782	500 ml	Plastic bottle	
E467784	6 x 500 ml	Plastic bottle	
467781	1 l	Plastic bottle	
E467785	6 x 1 l	Plastic bottle	
467783	2.5 l	Plastic bottle	
E467786	4 x 2.5 l	Plastic bottle	

CE IVD ***Dye for cytological diagnosis and oncology. Contains ethanol and methanol***

Papanicolaou solution OG 6

Papanicolaou soluzione OG 6 • Papanicolaou solution OG 6 • Papanicolaou solución OG 6

Classification transport
ONU: 1170
Transport Hazard class: 3
Packing group II

Danger
H225-H319
P210-P241-P264-P303+P361+P353-P305+P351+P338-P403+P235

Papanicolaou solution OG 6 > RS - For histology

RS

Description ..... Orange clear liquid
Density at 20°C ..... ~ 0.83
Absorbance at 480 nm ..... 0.6 ÷ 0.8
Identification ..... Positive
Empirical test ..... Positive

Code	Size	Packaging	Notes
467792	500 ml	Plastic bottle	
E467794	6 x 500 ml	Plastic bottle	
467791	1 l	Plastic bottle	
E467795	6 x 1 l	Plastic bottle	
467793	2.5 l	Plastic bottle	
E467796	4 x 2.5 l	Plastic bottle	

CE IVD ***Dye for cytological diagnosis and oncology. Contains ethanol and methanol***

Paraffin 56-58°C - Erbaplast (without DMSO)

Paraffina 56-58°C Erbaplast (senza DMSO) • Paraffine 56-58°C Erbaplast (sans DMSO) • Parafina 56-58°C Erbaplast (sin DMSO)

CAS: 92045-76-6
EEC-N: 295-458-3

Paraffin 56-58°C - Erbaplast (without DMSO) > RS - For histology - CE - IVD

RS

Description ..... White pellets
Melting point ..... 56 ÷ 58 °C

Code	Size	Packaging	Notes
467958	4 x 2 kg	Bag	

CE IVD

Paraffin 56°C-58°C - Erbaplast (with DMSO)

Paraffina 56°C-58°C Erbaplast (con DMSO) • Paraffina 56 - 58°C Erbaplast (avec DMSO) • Parafina 56°C-58°C - Erbaplast (con DMSO)

CAS: 92045-76-6
EEC-N: 295-458-3

Paraffin 56°C-58°C - Erbaplast (with DMSO) > RS - For histology

RS

Description ..... White pellets
Melting point ..... 56 ÷ 58 ° C

Code	Size	Packaging	Notes
467938	4 x 2 kg	Bag	

Paraffin oil

Olio di vaselina • Huile de vaseline • Aceite de vaselina

Synonym:
Mineral oil

CAS: 8012-95-1
EEC-N: 232-384-2

Paraffin oil > RS - For optical spectroscopy

RS

Description ..... Colourless oily liquid
Identification (I.R.) ..... Conform
Density at 20°C ..... ~ 0.880

Code	Size	Packaging	Notes
466792	100 ml	Glass bottle	

Paraffin oil > ERBApharm - According to pharmacopoeia : Ph.Eur.-USP-FU-Ph.Franc.-BP

ERBApharm

Description ..... Colourless oily liquid
Identification ..... Positive
Acidity or alkalinity.....Conform Ph.Eur.
Polynuclear hydrocarbon....Conform Ph.Eur.
Ready carbonizable substances.....Conform Ph.Eur.
Scale wax .....Conform Ph.Eur.
Viscosity at 20°C..... 110 ÷ 230 mPa x s
Viscosity at 40°C..... 34.5 ÷ 150 mm 2/s
Density at 20°C .....0.827 ÷ 0.890
Density at 25°C .....0.845 ÷ 0.905

Code	Size	Packaging	Notes
356601	1 l	Glass bottle	
356608	5 l	Aluminium can	
356603	23 kg	Drum	
356607	180 kg	Metal drum	

Paraffin white soft

Vaselina bianca • Vaseline blanche • Vaselina blanca

Synonym: *Vaseline*

CAS: 8009-03-8
EEC-N: 232-373-2

Paraffin white soft > ERBApharm - According to pharmacopoeia : BP-NF

ERBApharm

Description ..... White mass
Identification ..... Positive
Reaction ..... Conform USP-NF
Aspetto sostanza fusa.....Conform BP
Consistenza .....60 ÷ 300 BP
Ready carbonizable substances.....Conform USP-NF
Acidity or alkalinity.....Conform BP
Polynuclear hydrocarbon.....≤ 300 ppm
Melting point..... 47.0 ÷ 65.0 ° C
Sulphated ash..... ≤0.05 %

Code	Size	Packaging	Notes
388407	1 kg	Box	
388409	5 kg	Plastic jar	

Paraffin white soft > RE - Pure

RE

Appearance .....Soft whitish mass
Identification ..... Conform
Drop melting point..... 50 - 60 °C

Code	Size	Packaging	Notes
388607	1 kg	Plastic bottle	
388609	5 kg	Plastic jar	

Paraformaldehyde

Paraformaldeide • Paraformaldéhyde • Paraformaldehído

Synonym: *Polyoxymethylene*

$HO(CH_2O)nH$
CAS: 30525-89-4

Classification transport
ONU: 2213
Transport Hazard class: 4.1
Packing group III

Danger
H228-H302-H331-H315-H319-H317-H351-H335
P210-P241-P264-P271-P304+P340-P305+P351+P338

Paraformaldehyde > RE - Pure

RE

Description ..... White powder
Identification ..... Positive
Sulphated ash..... ≤ 0.1 %
Assay (oxidimetric) ..... ≥ 95 %
Acidity or alcalinity.....Passes test
Heavy metals (Pb)..... ≤ 0.001 %
Insoluble in NH4OH .....Passes test

Code	Size	Packaging	Notes
387507	1 kg	Plastic bottle	
387503	25 kg	Fibre drum	

Pararosaniline solution, decolorised

Pararosanilina soluzione, decolorata • Pararosaniline décolorée en solution • Pararrosanilina solución, decolorado

Danger
H350-HA26
P280-P201-P202-P308+P313-P405-P501a

Pararosaniline solution, decolorised > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611062201	100 ml	Glass bottle	Ref Ph.Eur 1062201

Storage: protected from light

n-Pentane 99%

n-Pentano 99% • n-Pentane 99% • n-Pentano 99%

$CH_3(CH_2)_3CH_3$
Molecular Weight: 72,15
CAS: 109-66-0
EEC-N: 203-692-4

Classification transport
ONU: 1265
Transport Hazard class: 3
Packing group I

Danger
H224-H336-H304-H411-HEU066
P210-P241-P273-P303+P361+P353-P304+P340-P403+P235

n-Pentane 99% > RS - ATRASOL - For analysis of volatile traces

RS

Refractive index at 20°C.....1.355 - 1.359
Water content (K.F.).....≤ 50 mg/Kg
Colour .....≤ 10 Hazen
Assay (GC).....≥ 99 %

Non volatile residue.....≤ 2 mg/Kg
GC (FID) - NC Atrasol.....Conform
GC-ECD.Individual peak (CCl4).....≤ 1 µg/l

Ret.time dichloromethane- trichloro-benz.
GC-ECD.Individual peak (Lindane) ..≤ 2 ng/l
Retention time trichlorobenzene to mirex
GC-FID.Individ. peak (hexadecane) .≤ 5 µg/l

Retention time range over toluène
Free acid (as CH3COOH).....≤ 10 mg/Kg
Total sulphur (S).....≤ 10 ppm

Code	Size	Packaging	Notes
P064323016	1 l	Glass bottle	
P064323021	2.5 l	Glass bottle	

n-Pentane 99% > RS - SPECTROSOL - For optical spectroscopy

RS

Description ..... Clear colourless liquid
Identification .....Positive
Colour .....≤10 APHA
Density at 20° C .....0.623 ÷ 0.629
Refractive index at 20°C.1.3552 ÷ 1.3606

Boiling point.....35.8 ÷ 36.3 ° C
Acidity or alkalinity.....≤0.0002 meq/g
Water (K.F.).....≤50 ppm
Residue on evaporation .....≤2 ppm
Total sulphur .....≤10 ppm

Aromatic compounds.....≤5 ppm
Assay (GLC) .....≥99 %
U.V. Transmittance
at 210 nm .....≥45 %
at 220 nm .....≥89 %

at 230 nm .....≥95 %
Trasmittance from 240 nm.....≥98 %

Code	Size	Packaging	Notes
468142	1 l	Glass bottle	
468141	2.5 l	Glass bottle	

n-Pentane 99% > RS - For enviromental analysis

RS

Description .....Clear liquid
Identification .....Positive
Colour (APHA) .....≤ 10

Water .....≤ 50 ppm
Not volatile residue.....≤ 5 ppm
Free acids (CH3COOH).....≤ 10 ppm

Total sulphur .....≤ 10 ppm
GC-ECD (Carbonio tetracloruro).....≤ 1 µg/l
GC-ECD (Lindano) .....≤ 2 ng/l

GC-FID (Esadecano) .....≤ 5 µg/l
Assay (GLC) .....≥ 99 %

Code	Size	Packaging	Notes
468204	1 l	Glass bottle	

n-Pentane 99% > RPE - For analysis - Reag. Ph.Eur. - Reag. USP

RPE

Description ..... Clear colourless liquid
Identification .....Positive
Colour (APHA) .....≤10
Density at 15° C .....0.629 ÷ 0.633
Identification (I.R.).....Positive
Aromatics .....≤0.001 %
Alcohol miscibility..... Complete

Residue on evaporation .....≤0.001 % p/v
Diethyl ether miscib..... Complete
Assay (GLC) .....≥99 %
Chloroform miscibility ..... Complete
Density at 20° C .....0.623 ÷ 0.629
Refractive index at 20°C.1.3552 ÷ 1.3606
Boiling point.....35.8 ÷ 36.3 ° C

Acidity or alkalinity.....≤0.0001 meq/g
Water (K.F.) .....≤100 ppm
Total phosphorus.....≤0.5 ppm
Total silicon.....≤0.02 ppm
Total sulphur .....≤5 ppm
Ca.....≤0.5 ppm
Cu.....≤0.05 ppm

Fe .....≤0.2 ppm
K.....≤0.2 ppm
Mg .....≤0.1 ppm
Na.....≤1 ppm
Pb.....≤0.05 ppm
Zn .....≤0.1 ppm

Code	Size	Packaging	Notes
468151000	1 l	Glass bottle	

n-Pentane 99% > RE - Pure

RE

Description .....Clear liquid
Identification .....Positive
Colour .....≤ 10 APHA

Density at 20°C .....0.621 ÷ 0631
Refractive index at 20°C.1.3529 ÷ 1.3629
Boiling point.....34.75 ÷ 37.25 °C

Residue on evaporation .....≤ 20 ppm
Water (K.F.) .....≤ 150 ppm
Aromatic compounds.....≤ 10 ppm

Assay (GLC) .....≥ 99 %

Code	Size	Packaging	Notes
528994	1 l	Glass bottle	
528993	2.5 l	Glass bottle	
528995	5 l	Aluminium can	
528996	25 l	Drum	
528997	200 l	Metal drum	

n-Pentane

n-Pentano • n-Pentane • n-Pentano

$CH_3(CH_2)_3CH_3$
Molecular Weight: 72,15
CAS: 109-66-0
EEC-N: 203-692-4

Classification transport
ONU: 1265
Transport Hazard class: 3
Packing group I

Danger
H224-H336-H304-H411-HEU066
P210-P241-P273-P303+P361+P353-P304+P340-P403+P235

n-Pentane > RS - For HPLC - Isocratic Grade

RS

Refractive index at 20°C.....1.355 - 1.359
Water content (K.F.).....≤ 100 mg/Kg
Colour ..... ≤ 10 Hazen
UV transmittance at 210 nm ..... ≥ 5 %
UV transmittance at 230 nm ..... ≥ 80 %
UV transmittance at 290 nm ..... ≥ 85 %
UV transmittance at 300 nm ..... ≥ 98 %
Aromatic compounds.....≤ 5 mg/Kg
Non volatile residue.....≤ 5 mg/Kg
Assay (GC)..... ≥ 95 %
Total sulphur (S) .....≤ 2 ppm
Free acid (as CH3COOH).....≤ 10 mg/Kg

Code	Size	Packaging	Notes
P0643716	1 l	Glass bottle	
P0643721	2.5 l	Glass bottle	

n-Pentane > RS - ATRASOL - For trace analysis, Suitable for Hydrocarbon index determination

RS

Refractive index at 20°C.....1.355 - 1.359
Water content (K.F.).....≤ 50 mg/Kg
Colour ..... ≤ 5 Hazen
Non volatile residue.....≤ 2 mg/Kg
GC-ECD.Individual peak (Lindane) ..≤ 3 ng/l
Retention time trichlorobenzene to mirex
GC-FID.Hydrocarbon oil index...≤ 0.05 mg/l
Retention time n-decane - n-tetracontane
Appearance ..... Clear colourless liquid
GC-FID.Individual peak (C10-C40)..≤ 5 µg/l
Density d20/4 .....0.621 - 0.631

Code	Size	Packaging	Notes
P0643216	1 l	Glass bottle	
P0643221	2.5 l	Glass bottle	

n-Pentane > RS - PESTIPUR - For pesticide analysis

RS

Description .....Clear liquid
Identification .....Positive
Colour .....≤ 10 hazen
Water .....≤ 50 ppm
Acidity (acetic acid).....≤ 10 ppm
Not volatile residue.....≤ 5 ppm
Total sulphur .....≤ 2 ppm
GC-ECD (Lindano) .....≤ 3 ng/l
GC-NPD (Ethylparation).....≤ 3 ng/l
Assay (GLC) ..... ≥ 95 %

Code	Size	Packaging	Notes
468161	1 l	Glass bottle	
468162	2.5 l	Glass bottle	

n-Pentane > RS - Anhydrous - For analysis

RS

Refractive index at 20°C.....1.355 - 1.359
Water content (K.F.).....≤ 50 mg/Kg
Non volatile residue.....≤ 10 mg/Kg
Colour ..... ≤ 10 Hazen
Assay (GC)..... ≥ 95 %
Aromatic compounds.....≤ 20 mg/Kg
n-hexane..... ≤ 0.4 %
Cyclopentane..... ≤ 1 %
2,2-dimethylbutane..... ≤ 1 %
Total sulphur (S) .....≤ 2 ppm
Free acid (as CH3COOH).....≤ 10 mg/Kg

Code	Size	Packaging	Notes
P0641016	1 l	Glass bottle	On molecular sieves

n-Pentane > RPE - For analysis

RPE

Refractive index at 20°C.....1.355 - 1.359
Water content (K.F.).....≤ 150 mg/Kg
Non volatile residue.....≤ 10 mg/Kg
Colour ..... ≤ 10 Hazen
Assay (GC)..... ≥ 95 %
Aromatic compounds.....≤ 20 mg/Kg
n-hexane..... ≤ 0.4 %
Cyclopentane..... ≤ 1 %
2,2-dimethylbutane..... ≤ 1 %
Total sulphur (S) .....≤ 2 ppm
Free acid (as CH3COOH).....≤ 10 mg/Kg

Code	Size	Packaging	Notes
468121	1 l	Glass bottle	
468122	2.5 l	Glass bottle	
468123	200 l	Metal drum	

n-Pentane > RE - Pure

RE

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 20° C ..... 0.621 ÷ 0.631
Refractive index at 20°C..... 1.3529 ÷ 1.3629
Water (K.F.) .....≤200 ppm
Residue on evaporation .....≤20 ppm
Assay (GLC) .....≥95 %
Colour ..... ≤ 10 APHA
n-Hexane.....≤ 0.4 %

Code	Size	Packaging	Notes
356951	1 l	Glass bottle	
356954	5 l	Aluminium can	
356952	16 kg	Drum	
356953	200 l	Metal drum	

2,4-Pentanedione ▶ Acetylacetone

1-Pentanesulphonic acid sodium salt

Acido 1-pentansolfonico sale sodico • Acide 1-pentanesulfonique sel sodique • Acido 1-pentanosulfónico sal sódica

Synonym:
Sodium pentanesulfonate

$CH_3(CH_2)_4SO_3Na$
Molecular Weight: 174,19
CAS: 22767-49-3
EEC-N: 245-208-4

1-Pentanesulphonic acid sodium salt > RS - For ion pair chromatography — RS

Description ..... White crystalline powder
Water (K.F.) ..... ≤ 2 %
Assay ..... ≥ 98 %

Absorbance (0,25M)
At 200 nm ..... ≤ 0.10 AU
At 210 nm ..... ≤ 0.05 AU
At 220 nm ..... ≤ 0.04 AU
At 230 nm ..... ≤ 0.03 AU
At 240 nm ..... ≤ 0.01 AU
At 250 nm ..... ≤ 0.01 AU
At 260 nm ..... ≤ 0.01 AU

Code	Size	Packaging	Notes
405841	25 g	Glass bottle	
405842	100 g	Plastic bottle	

1-Pentanesulphonic acid sodium salt > RPE - For analysis — RPE

Description ..... White powder
Identification ..... Positive
Assay ..... ≥95 %

Code	Size	Packaging	Notes
409062	5 g	Glass bottle	
409064	25 g	Glass bottle	

1-Pentanesulphonic acid sodium salt monohydrate

Acido 1-pentansolfonico sale sodico monoidrato • Acide 1-pentanesulfonique sel sodique monohydrate • Acido 1-pentanosulfónico sal sódica monohidrato

Synonym:
Sodium 1-pentanesulfonate monohydrate
1-Pentanesulfonic acid sodium salt

$CH_3(CH_2)_4SO_3Na.H_2O$
Molecular Weight: 192,19
CAS: 207605-40-1

1-Pentanesulphonic acid sodium salt monohydrate > RS - For ion pair chromatography — RS

Description ..... White crystalline powder
Loss on drying ..... 7.0 - 9.0 %
Assay ..... ≥ 99.0 %

Absorbance (0,25M)
At 200 nm ..... ≤ 0.1 AU
At 210 nm ..... ≤ 0.05 AU
At 220 nm ..... ≤ 0.03 AU
At 230 nm ..... ≤ 0.02 AU
At 240 nm ..... ≤ 0.01 AU
At 250 nm ..... ≤ 0.01 AU

Code	Size	Packaging	Notes
405891	25 g	Glass bottle	
405892	100 g	Plastic bottle	

Pentanoic acid ▶ n-Valeric acid

1-Pentanol ▶ n-Amyl alcohol

Pepsin HCl

Pepsina HCl • Pepsine • Pepsina HCl

Danger
H314-HEU208
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Pepsin HCl > RPE - For analysis — RPE

Code	Size	Packaging	Notes
468245	250 ml	Bottle	

Cleaning solution proteins

Perchloric acid 65-71%

Acido perclorico 65-71% • Acide perchlorique 65-71% • Acido perclórico 65-71%

$HClO_4$
Molecular Weight: 100,47
CAS: 7601-90-3

Classification transport
ONU: 1873
Transport Hazard class: 5.1
Packing group I

Danger
H271-H314
P210-P221-P283-P303+P361+P353-P305+P351+P338-P310-P405-P501a

Perchloric acid 65-71% > RS - Superpure - For trace analysis at ppb level

RS

Description	Clear liquid	Dy	≤ 0.5 ppb	Mo	≤ 0.5 ppb	Tb	≤ 0.5 ppb
Identification	Positive	Er	≤ 0.5 ppb	Nd	≤ 0.5 ppb	Tl	≤ 0.5 ppb
Colour	≤ 10 APHA	Eu	≤ 0.5 ppb	Ni	≤ 1 ppb	Th	≤ 1 ppb
Al	≤ 1 ppb	Gd	≤ 0.5 ppb	Pd	≤ 0.5 ppb	Tm	≤ 0.5 ppb
Sb	≤ 0.5 ppb	Ga	≤ 0.5 ppb	Pt	≤ 0.5 ppb	Sn	≤ 1 ppb
As	≤ 0.5 ppb	Au	≤ 0.5 ppb	K	≤ 1 ppb	Ti	≤ 1 ppb
Ba	≤ 1 ppb	Ho	≤ 0.5 ppb	Pr	≤ 0.5 ppb	U	≤ 0.5 ppb
Be	≤ 0.5 ppb	In	≤ 0.5 ppb	Rh	≤ 0.5 ppb	V	≤ 0.5 ppb
Bi	≤ 0.5 ppb	Fe	≤ 1 ppb	Rb	≤ 0.5 ppb	Yb	≤ 0.5 ppb
Cd	≤ 1 ppb	La	≤ 0.5 ppb	Sm	≤ 0.5 ppb	Y	≤ 0.5 ppb
Ca	≤ 1 ppb	Pb	≤ 1 ppb	Sc	≤ 0.5 ppb	Zn	≤ 1 ppb
Ce	≤ 0.5 ppb	Li	≤ 0.5 ppb	Ag	≤ 1 ppb	Zr	≤ 0.5 ppb
Cs	≤ 0.5 ppb	Lu	≤ 0.5 ppb	Na	≤ 1 ppb	Assay (acidimetric)	65 ÷ 71 %
Co	≤ 0.5 ppb	Mg	≤ 1 ppb	Sr	≤ 0.5 ppb		
Cu	≤ 0.5 ppb	Mn	≤ 1 ppb	Te	≤ 0.5 ppb		

Code	Size	Packaging	Notes
409193	1 l	Glass bottle	

Perchloric acid 65%

Acido perclorico 65% • Acide perchlorique 65% • Acido perclórico 65%

$HClO_4$
Molecular Weight: 100,47
CAS: 7601-90-3

Classification transport
ONU: 1873
Transport Hazard class: 5.1
Packing group I

Danger
H271-H314
P210-P221-P283-P303+P361+P353-P305+P351+P338-P310-P405-P501a

Perchloric acid 65% > RS - For enviromental analysis - ISO

RS

Description	Clear liquid	Residue on ignition	≤30 ppm	Cr	≤0.2 ppm	Pb	≤0.05 ppm
Colour (APHA)	≤10	Sulphate	≤4 ppm	Cu	≤0.1 ppm	Sr	≤0.02 ppm
Identification	Positive	Ag	≤0.1 ppm	Fe	≤0.5 ppm	Ti	≤0.1 ppm
Density at 20° C	1.587 ÷ 1.607	Al	≤0.05 ppm	Hg	≤0.02 ppm	Tl	≤0.05 ppm
Total nitrogen	≤10 ppm	As	≤0.05 ppm	K	≤0.1 ppm	V	≤0.05 ppm
Chlorate	≤10 ppm	Ba	≤0.02 ppm	Li	≤0.02 ppm	Zn	≤0.1 ppm
Free chlorine	≤0.5 ppm	Bi	≤0.1 ppm	Mg	≤0.5 ppm	Assay (acidimetric)	64 ÷ 66 %
Chloride	≤1 ppm	Ca	≤0.5 ppm	Mn	≤0.02 ppm		
Fluoride	≤1 ppm	Cd	≤0.005 ppm	Mo	≤0.05 ppm		
Phospate-silicate(SiO2)	≤1 ppm	Co	≤0.05 ppm	Ni	≤0.1 ppm		

Code	Size	Packaging	Notes
409121	1 l	Glass bottle	

Low content in Hg

Perchloric acid 65% > RPE - For analysis - ISO

RPE

Description	Clear liquid	Heavy metals (Pb)	≤1 ppm	Co	≤0.05 ppm	Pb	≤0.05 ppm
Colour (APHA)	≤10	Residue on ignition	≤30 ppm	Cr	≤0.2 ppm	Sr	≤0.02 ppm
Identification	Positive	Sulphate	≤4 ppm	Cu	≤0.1 ppm	Ti	≤0.1 ppm
Density at 20° C	1.587 ÷ 1.607	Ag	≤0.1 ppm	Fe	≤0.5 ppm	Tl	≤0.05 ppm
Total nitrogen	≤10 ppm	Al	≤0.05 ppm	K	≤0.1 ppm	V	≤0.05 ppm
Chlorate	≤10 ppm	As	≤0.05 ppm	Li	≤0.02 ppm	Zn	≤0.1 ppm
Free chlorine	≤0.5 ppm	Ba	≤0.02 ppm	Mg	≤0.5 ppm	Assay (acidimetric)	64 ÷ 66 %
Chloride	≤1 ppm	Bi	≤0.1 ppm	Mn	≤0.02 ppm		
Fluoride	≤1 ppm	Ca	≤0.5 ppm	Mo	≤0.05 ppm		
Phospate-silicate(SiO2)	≤5 ppm	Cd	≤0.05 ppm	Ni	≤0.1 ppm		

Code	Size	Packaging	Notes
409111	1 l	Glass bottle	
409113	35 kg	Drum	

Perchloric acid 65% > RE - Pure

RE

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 20° C ..... 1.587 ÷ 1.607
Total nitrogen ..... ≤50 ppm
Chloride ..... ≤10 ppm
Phospate-silicate(SiO2) ..... ≤50 ppm
Heavy metals (Pb) ..... ≤1 ppm
Residue on ignition ..... ≤50 ppm
Sulphate ..... ≤50 ppm
Fe ..... ≤5 ppm
Assay (acidimetric) ..... 64 ÷ 66 %

Code	Size	Packaging	Notes
306091	1 l	Glass bottle	

Perchloric acid 60%

Acido perclorico 60% • Acide perchlorique 60% • Acido perclórico 60%

$HClO_4$
Molecular Weight: 100,47
CAS: 7601-90-3

Classification transport
ONU: 1873
Transport Hazard class: 5.1
Packing group I

Danger
H271-H314
P210-P221-P283-P303+P361+P353-P305+P351+P338-P310-P405-P501a

Perchloric acid 60% > RPE - For agroalimentary analysis

RPE

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 20° C ..... 1.587 ÷ 1.607
Total nitrogen ..... ≤ 50 ppm
Chloride ..... ≤ 10 ppm
Phospate-silicate(SiO2) ..... ≤ 50 ppm
Heavy metals (Pb) ..... ≤ 1 ppm
Residue on ignition ..... ≤ 50 ppm
Sulphate ..... ≤ 50 ppm
Fe ..... ≤ 5 ppm
Assay (acidimetric) ..... 60 ÷ 67 %

Code	Size	Packaging	Notes
502046	1 l	Glass bottle	

Perchloric acid 0.1 mol/l (0.1N) in acetic acid

Acido perclorico 0.1 mol/l (0.1N) in acido acetico • Acide perchlorique 0.1 mol/l (0.1N) dans l'acide acétique • Acido perclórico 0.1 mol/l (0.1N) en acido acético

Classification transport
ONU: 2789
Transport Hazard class: 8
Packing group II

Danger
H225-H314
P210-P241-P264-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

Perchloric acid 0.1 mol/l (0.1N) in acetic acid > RPE - For analysis

RPE

Description ..... Clear colourless liquid
Assay (potentiometry) ..... 0.0998 - 0.1002 N
NIST 84 I

Code	Size	Packaging	Notes
409136	500 ml	Glass bottle	
409131	1 l	Glass bottle	

10,046 g of HClO4. Volumetric solution ready-to-use: 0,1 N. Content is guaranteed for standardized volumes at 20 °C

Perchloric acid 0.1 mol/l (0.1N)

Acido perclorico 0.1 mol/l (0.1N) • Acide perchlorique 0.1 mol/l (0.1N) • Acido perclórico 0.1 mol/l (0.1N)

Classification transport
ONU: 2789
Transport Hazard class: 8
Packing group II

Danger
H225-H314
P210-P241-P264-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

Perchloric acid 0.1 mol/l (0.1N) > RS - For analysis according to Ph. Eur. Chap. 4.2.2

RS

Code	Size	Packaging	Notes
613003900	1 l	Glass bottle	Ref Ph.Eur 3003900

Perchloric acid 0.05 mol/l (0.05N)

Acido perclorico 0.05 mol/l (0.05N) • Acide perchlorique 0.05 mol/l (0.05N) • Acido perclórico 0.05 mol/l (0.05N)

Classification transport
Transport Hazard class: 8
Packing group II

Perchloric acid 0.05 mol/l (0.05N) > RS - For analysis according to Ph. Eur. Chap. 4.2.2 — RS

Code	Size	Packaging	Notes
613004000	1 l	Glass bottle	Ref Ph.Eur 3004000

Perchloric acid 0.01 mol/l (0.01N)

Acido perclorico 0.01 mol/l (0.01N) • Acide perchlorique 0.01 mol/l (0.01N) • Acido perclórico 0.01 mol/l (0.01N)

Classification transport
ONU: 2789
Transport Hazard class: 8
Packing group II

Danger
H226-H314-H318
P210-P241-P264-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

Perchloric acid 0.01 mol/l (0.01N) > RPE - For analysis — RPE

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
E409141	500 ml	Glass bottle	

1.0046 g of HClO4. Volumetric solution ready-to-use : 0.01N. Solution in acetic anhydride

Perchloric acid solution

Acido perclorico soluzione • Acide perchlorique solution • Acido perclórico solución

Perchloric acid solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1 — RS

Code	Size	Packaging	Notes
611062901	100 ml	Plastic bottle	Ref Ph.Eur 1062901

Periodic acid

Acido periodico • Acide périodique • Acido periódico

$HIO_4.2H_2O$
Molecular Weight: 227,94
CAS: 10450-60-9
EEC-N: 233-937-0

Classification transport
ONU: 3084
Transport Hazard class: 8
Packing group II

Danger
H272-H314
P221-P264-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Periodic acid > RPE - For analysis — RPE

Description ..... White-yellowish crystalline powder
Identification ..... Positive
Aspetto soluzione 5% ..... Complete
Iodide ..... < 10 ppm
Cloruri-Bromuri + Clorati-Bromati (Cl)< 200 ppm
Sulphated ash..... < 0.05 %
Nitrate ..... < 100 ppm
Assay (iodometric)..... > 99.0 %

Code	Size	Packaging	Notes
409182	25 g	Glass bottle	
409184	100 g	Glass bottle	
409185	250 g	Glass bottle	

Petroleum
Petrolio • Pétrole • Petróleo

CAS: 64771-72-8
EEC-N: 929-018-5

Danger
H304-HEU066
P301+P310a-P331-P405-P501a

Petroleum > RE - Pure
RE

Description ..... Clear colourless liquid
Identification (I.R.)..... Positive
Density at 15°C ..... 0.746 ÷ 0.752
Boiling point..... 185 ÷ 245 °C
Residue on ignition..... ≤ 100 ppm

Code	Size	Packaging	Notes
357151	1 l	Glass bottle	
357155	21 kg	Drum	

Petroleum benzin E
Benzina E • Essence E • Benzina de Petroleo E

CAS: 64742-49-0

Classification transport
ONU: 3295
Transport Hazard class: 3
Packing group II

Danger
H225-H304-H315-H336-H411
P210-P241-P301+P310-P303+P361+P353-P405-P501a

Petroleum benzin E > RE - Pure
RE

Density d15/4 ..... 0.720 - 0.745
Colour .....≤ 10 Hazen
Aromatic compounds.....≤ 100 mg/Kg
Boiling point..... 100 - 140 °C
Total sulphur (S) ..... ≤ 5 ppm

Code	Size	Packaging	Notes
P0370048	25 l	Drum	

Petroleum ether 100 - 140°C
Etere di petrolio (Ligroina) 100 - 140°C • Ether de pétrole 100 - 140°C • Eter de petróleo 100 - 140°C

CAS: 64742-49-0
EEC-N: 265-151-9

Classification transport
ONU: 3295
Transport Hazard class: 3
Packing group II

Danger
H225-H315-H336-H304-H411
P210-P241-P264-P273-P303+P361+P353-P304+P340-P403+P235

Petroleum ether 100 - 140°C > RE - Pure
RE

Description ..... Clear colourless liquid
Water (K.F.) .....≤ 200 ppm
Identification ..... Positive
Residue on evaporation ..... ≤ 50 ppm
Density at 15° C ..... 0.725 ÷ 0.740
Total sulphur ..... ≤ 10 ppm
Aromatics (Thiophene).....≤ 0.06 %
Boling point min. .....≥100 °C
Boiling point max.....≤140 °C

Code	Size	Packaging	Notes
348913	1 l	Glass bottle	
348912	2.5 l	Glass bottle	
508230	5 l	Plastic tank	
348914	20 kg	Drum	
508232	25 l	Drum	

Petroleum ether 80 - 120°C
Etere di petrolio (Ligroina) 80 - 120°C • Ether de pétrole 80 - 120°C • Eter de petróleo 80 - 120°C

CAS: 64742-49-0

Classification transport
ONU: 1268
Transport Hazard class: 3
Packing group II

Danger
H225-H315-H336-H411
P210-P241-P264-P273-P303+P361+P353-P304+P340-P403+P235

Petroleum ether 80 - 120°C > RE - Pure
RE

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 15° C .....≥0.723
Residue on evaporation .....≤100 ppm
Boling point min. .....≥80 °C
Boiling point max.....≤120 °C

Code	Size	Packaging	Notes
348901	1 l	Glass bottle	
348905	2.5 l	Glass bottle	

Petroleum ether 80 - 100°C

Etere di petrolio (Benzina) 80 - 100°C • Ether de pétrole 80 - 100°C • Eter de petróleo 80 - 100°C

CAS: 64742-49-0

Classification transport
ONU: 1268
Transport Hazard class: 3
Packing group II

Danger
H225-H315-H336-H304-H411
P210-P241-P264-P273-P303+P361+P353-P304+P340-P403+P235

Petroleum ether 80 - 100°C > RPE - For analysis

RPE

Description ..... Clear colourless liquid
Colour (APHA) ..... ≤10
Identification ..... Positive
Boiling point..... 80 ÷ 100 ° C
Carb.sulf. miscibility ..... Complete
CCl4 miscibility ..... Complete
Anhyd.Ethyl alc.miscib..... Complete
Benzene miscibility..... Complete
Diethyl ether miscib..... Complete
Ready carbonizable substances.....Conform
Density at 15° C ..... ~ 0.709
Water (K.F.) ..... ≤0.01 %
Residue on evaporation .....≤10 ppm
Acidity (acetic acid).....≤5 ppm
Aromatics .....≤100 ppm
Subst. reducing KMnO4..... ≤20 ppm (5m)
Total sulphur .....≤50 ppm

Code	Size	Packaging	Notes
427031	1 l	Glass bottle	
427036	18 kg	Drum	

Petroleum ether 80 - 100°C > RE - Pure

RE

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 15° C ..... ~ 0.708
Residue on evaporation .....≤100 ppm
Boling point min. .....≥80 °C
Boiling point max.....≤100 °C

Code	Size	Packaging	Notes
323501	1 l	Glass bottle	
323503	2.5 l	Glass bottle	
323502	19 kg	Drum	

Petroleum ether 75 - 120°C

Etere di petrolio (Ligroina) 75 - 120°C • Ether de pétrole 75 - 120°C • Eter de petróleo 75 - 120°C

CAS: 64742-49-0

Classification transport
ONU: 1268
Transport Hazard class: 3
Packing group II

Danger
H225-H315-H336-H304-H411
P210-P241-P264-P273-P303+P361+P353-P304+P340-P403+P235

Petroleum ether 75 - 120°C > RPE - For analysis

RPE

Description ..... Clear colourless liquid
Identification ..... Positive
Diethyl ether miscib..... Complete
Misc.with Abs.Ethanol..... Complete
Boling point min. ..... ≥75 °C
Boiling point max..... ≤120 °C
Ready carbonizable substances.....Conform
Density at 15° C ..... ≥0.715
Water (K.F.) .....≤50 ppm
Residue on evaporation .....≤10 ppm
Acidity (acetic acid).....≤0.7 ppm
Alcalinity (NH3).....≤0.2 ppm
Subst. reducing KMnO4..... ≤20 ppm (5m)
Total sulphur .....≤50 ppm

Code	Size	Packaging	Notes
458001	1 l	Glass bottle	
458003	2.5 l	Glass bottle	

Petroleum ether 60 - 80°C

Etere di petrolio (Benzina) 60 - 80°C • Ether de pétrole 60 -80°C • Eter de petróleo 60 - 80°C

CAS: 64742-49-0

Classification transport
ONU: 1268
Transport Hazard class: 3
Packing group II

Danger
H225-H315-H361f-H336-H373-H304-H411
P210-P241-P264-P273-P303+P361+P353-P304+P340-P403+P235

Petroleum ether 60 - 80°C > RPE - For analysis

RPE

Description .....Clear liquid
Colour (APHA) ..... ≤10
Identification ..... Positive
Boiling point..... 60 ÷ 80 ° C
Ready carbonizable substances.....Conform
Density at 20° C .....0.660 ÷ 0.690
Water (K.F.) .....≤100 ppm
Residue on evaporation .....≤10 ppm
Acidity (acetic acid).....≤5 ppm
Subst. reducing KMnO4..... ≤20 ppm (5m)
Total sulphur .....≤50 ppm

Code	Size	Packaging	Notes
427001	1 l	Glass bottle	
427003	2.5 l	Glass bottle	
427007	18 kg	Drum	

Petroleum ether 55 - 85°C

Etere di petrolio (Benzina) 55 - 85°C • Ether de pétrole 55 - 85°C • Eter de petróleo 55 - 85°C

CAS: 64742-49-0

Classification transport
ONU: 1268
Transport Hazard class: 3
Packing group II

Danger
H225-H315-H361f-H336-H373-H411
P210-P241-P264-P273-P303+P361+P353-P304+P340-P403+P235

Petroleum ether 55 - 85°C > RE - Pure

RE

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 20°C ..... 0.660 ÷ 0.690
Residue on evaporation ..... ≤100 ppm
Boling point min. ..... ≥55 °C
Boiling point max..... ≤85 °C

Code	Size	Packaging	Notes
323401	1 l	Glass bottle	
323403	2.5 l	Glass bottle	
323402	18 kg	Drum	

Petroleum ether 40 - 70°C

Etere di petrolio 40 - 70°C • Ether de pétrole 40 - 70°C • Eter de petróleo 40 - 70°C

CAS: 64742-49-0

Classification transport
ONU: 1268
Transport Hazard class: 3
Packing group II

Danger
H225-H315-H336-H304-H411
P210-P241-P264-P273-P303+P361+P353-P304+P340-P403+P235

Petroleum ether 40 - 70°C > RPE - For analysis

RPE

Description ..... Clear liquid
Colour (APHA) ..... ≤10
Identification ..... Positive
Alcohol miscibility..... Complete
Diethyl ether miscib. ..... Complete
Fat oils ..... Conform
Ready carbonizable substances..... Conform
Density at 15° C ..... 0.645 ÷ 0.670
Residue on evaporation ..... ≤20 ppm
Water (K.F.) ..... ≤100 ppm
Boling point min. ..... ≥40 °C
Boiling point max..... ≤70 °C
Acidity (acetic acid)..... ≤0.7 ppm
Alcalinity (NH3)..... ≤0.2 ppm
Benzene ..... ≤100 ppm
Subst. reducing KMnO4..... ≤20 ppm (5m)
Total sulphur ..... ≤50 ppm
Al ..... ≤0.5 ppm
Ba ..... ≤0.1 ppm
Ca ..... ≤0.5 ppm
Cd ..... ≤0.05 ppm
Co ..... ≤0.02 ppm
Cr ..... ≤0.02 ppm
Cu ..... ≤0.02 ppm
Fe ..... ≤0.1 ppm
Mg ..... ≤0.1 ppm
Mn ..... ≤0.02 ppm
Ni ..... ≤0.02 ppm
Pb ..... ≤0.1 ppm
Sn ..... ≤0.1 ppm
Zn ..... ≤0.1 ppm

Code	Size	Packaging	Notes
447821	1 l	Glass bottle	
447824	5 l	Aluminium can	
447822	19 kg	Aluminium can	

Petroleum ether 40 - 70°C > RE - Pure

RE

Description ..... Clear liquid
Colour (APHA) ..... ≤ 10
Identification ..... Positive
Density at 15° C ..... 0.645 ÷ 0.670
Residue on evaporation ..... ≤20 ppm
Water (K.F.) ..... ≤100 ppm
Benzene ..... ≤200 ppm
Boling point min. ..... ≥40 °C
Boiling point max..... ≤70 °C

Code	Size	Packaging	Notes
341024	1 l	Glass bottle	
341022	19 kg	Aluminium can	

Petroleum ether 40 - 65°C

Etere di petrolio 40 - 65°C • Ether de pétrole 40 - 65°C • Eter de petróleo 40 - 65°C

CAS: 64742-49-0

Classification transport
ONU: 1268
Transport Hazard class: 3
Packing group II

Danger
H225-H315-H336-H304-H411
P210-P241-P264-P273-P303+P361+P353-P304+P340-P403+P235

Petroleum ether 40 - 65°C > RS - PESTIPUR - For pesticide analysis

RS

GC chromatogram..... Conform
Boiling point..... 40 - 65 °C
Density d15/4 ..... 0.640 - 0.655
Colour ..... ≤ 10 Hazen
Water content (K.F.) ..... ≤ 100 mg/Kg
Non volatile residue ..... ≤ 2 mg/Kg
GC-ECD.Individual peak (Lindane) ..≤ 3 ng/l
Retention time trichlorobenzene to mirex
GC-NPD.Individual peak (Ethylparathion)≤ 3 ng/l
Retention time Atrazin to Coumaphos

Code	Size	Packaging	Notes
447851	1 l	Glass bottle	
447852	2.5 l	Glass bottle	

Petroleum ether 40 - 65°C > RPE - For analysis

RPE

Description ..... Clear colourless liquid
Colour ..... ≤ 10 APHA
Density at 15°C ..... 0.645 ÷ 0.660
Refractive index at 20°C ..... 1.366 ÷ 1.376
Boiling point ..... 40 ÷ 65 °C
Residue on evaporation ..... ≤ 10 ppm
Water (K.F.) ..... ≤ 100 ppm
Assay (CPG) ..... Conform
n-Hexane ..... ≤ 2 %
Aromatic compounds ..... ≤ 100 ppm

Code	Size	Packaging	Notes
447811	1 l	Glass bottle	
447812	2.5 l	Glass bottle	
447813	5 l	Plastic tank	
447814	10 l	Metal tank	
447815	25 l	Drum	
447816	200 l	Metal drum	

Petroleum ether 40 - 60°C

Etere di petrolio 40 - 60°C • Ether de pétrole 40 - 60°C • Eter de petróleo 40 - 60°C

CAS: 64742-49-0

Classification transport
ONU: 1268
Transport Hazard class: 3
Packing group II

Danger
H225-H315-H336-H304-H411
P210-P241-P264-P273-P303+P361+P353-P304+P340-P403+P235

Petroleum ether 40 - 60°C > RPE - For analysis

RPE

Description ..... Clear liquid
Colour (APHA) ..... ≤10
Identification ..... Positive
Alcohol miscibility ..... Complete
Diethyl ether miscib. ..... Complete
Boling point min. ..... ≥40 °C
Boiling point max. ..... ≤60 °C
Fat oils ..... Conform
Ready carbonizable substances ..... Conform
Density at 15° C ..... 0.647 ÷ 0.654
Residue on evaporation ..... ≤10 ppm
Water (K.F.) ..... ≤100 ppm
Acidity (acetic acid) ..... ≤0.7 ppm
Alcalinity (NH3) ..... ≤0.2 ppm
Benzene ..... ≤100 ppm
Subst. reducing KMnO4 ..... ≤20 ppm (5m)
Total sulphur ..... ≤50 ppm
Al ..... ≤0.5 ppm
Ba ..... ≤0.1 ppm
Ca ..... ≤0.5 ppm
Cd ..... ≤0.05 ppm
Co ..... ≤0.02 ppm
Cr ..... ≤0.02 ppm
Cu ..... ≤0.02 ppm
Fe ..... ≤0.1 ppm
Mg ..... ≤0.1 ppm
Mn ..... ≤0.02 ppm
Ni ..... ≤0.02 ppm
Pb ..... ≤0.1 ppm
Sn ..... ≤0.1 ppm
Zn ..... ≤0.1 ppm
Assay (CPG) ..... Conform

Code	Size	Packaging	Notes
447833	1 l	Glass bottle	
447831	2.5 l	Glass bottle	
447832	5 l	Aluminium can	
447836	5 l	Plastic tank	
447834	19 kg	Aluminium can	

Petroleum ether 40 - 60°C > RE - Pure

RE

Description ..... Clear liquid
Colour ..... ≤ 10 APHA
Identification ..... Positive
Density at 20°C ..... 0.643 ÷ 0.673
Refractive index at 20°C ..... 1.368 ÷ 1.378
Residue on evaporation ..... ≤ 20 ppm
Water (K.F.) ..... ≤ 200 ppm
Aromatics ..... ≤100 ppm
Distillation intervalle ..... 40 ÷ 60 °C

Code	Size	Packaging	Notes
528283	5 l	Plastic tank	

Petroleum ether 35 - 60°C

Etere di petrolio 35 - 60°C • Ether de pétrole 35 - 60°C • Eter de petróleo 35 - 60°C

CAS: 101316-46-5

Classification transport
ONU: 1268
Transport Hazard class: 3
Packing group II

Danger
H225-H336-H304-H411
P210-P241-P273-P303+P361+P353-P304+P340-P403+P235

Petroleum ether 35 - 60°C > RS - ATRASOL - For trace analysis, Suitable for Hydrocarbon index determination

RS

Appearance ..... Clear colourless liquid
Refractive index at 20°C ..... 1.355 - 1.359
Water content (K.F.) ..... ≤ 50 mg/Kg
Colour ..... ≤ 5 Hazen
Non volatile residue ..... ≤ 2 mg/Kg
GC-ECD.Individual peak (Lindane) .. ≤ 3 ng/l
Retention time trichlorobenzene to mirex
GC-FID.Hydrocarbon oil index... ≤ 0.05 mg/l
Retention time n-decane - n-tetracontane
GC-FID.Individual peak (C10-C40) .. ≤ 5 µg/l

Code	Size	Packaging	Notes
P0883216	1 l	Glass bottle	
P0883221	2.5 l	Glass bottle	

Contains n-Pentane, iso-Pentane, 1-pentene, 2.2-Dimethylbutane and cyclopentane

Petroleum ether 35 - 60°C > RS - PESTIPUR - For pesticide analysis

RS

Clear,colourless liq.appearance .....Conform
Identification .....Conform
Colour .....≤ 10 Apha
Refractive index at 20°C.....1.355 - 1.359
Water content (K.F.) .....≤ 100 mg/Kg
GC-ECD.Individual peak (Lindane) ..≤ 3 ng/l
Retention time trichlorobenzene to mirex
Non volatile residue .....≤ 2 mg/Kg
Total sulphur (S) .....≤ 10 ppm
GC-NPD.Individual peak (Ethylparathion)≤ 3 ng/l
Retention time Atrazin to Coumaphos

Code	Size	Packaging	Notes
447862	1 l	Glass bottle	
447861	2.5 l	Glass bottle	

Contains n-Pentane, iso-Pentane, 1-pentene, 2,2-Dimethylbutane and cyclopentane

Petroleum ether 35 - 60°C > RPE - For analysis

RPE

Description .....Clear liquid
Colour .....≤ 10 APHA
Identification .....Positive
Density at 20°C .....0.643 ÷ 0.673
Refractive index at 20°C.....1.368 ÷ 1.378
Residue on evaporation .....≤ 10 ppm
Water (K.F.) .....≤ 150 ppm
Aromatics .....≤ 20 ppm
Total sulphur .....≤ 10 ppm
Bromine rating ..... ≤ 1
Distillation intervalle.....35 ÷ 60 °C
Assay (CPG) .....Conform

Code	Size	Packaging	Notes
528070	1 l	Glass bottle	
528071	2.5 l	Glass bottle	
528280	5 l	Plastic tank	
528281	25 l	Drum	
528282	200 l	Metal drum	

Petroleum ether 30 - 50°C

Etere di petrolio 30 - 50°C • Ether de pétrole 30 - 50°C • Eter de petróleo 30 - 50°C

CAS: 101316-46-5

Classification transport
ONU: 1268
Transport Hazard class: 3
Packing group II

Danger
H225-H336-H304-H411
P210-P241-P273-P303+P361+P353-P304+P340-P403+P235

Petroleum ether 30 - 50°C > RPE - For analysis

RPE

Description .....Clear liquid
Colour (APHA) ..... ≤10
Identification .....Positive
Alcohol miscibility..... Complete
Diethyl ether miscib..... Complete
Fat oils .....Conform
Ready carbonizable substances.....Conform
Density at 15° C ..... ≥0.633
Residue on evaporation .....≤10 ppm
Water (K.F.) .....≤100 ppm
Boling point min. ..... ≥30 °C
Boiling point max..... ≤50 °C
Acidity (acetic acid).....≤0.7 ppm
Alcalinity (NH3).....≤0.2 ppm
Benzene .....≤100 ppm
Unsaturated hydrocarbon..... ≤0.4 %
Subst. reducing KMnO4..... ≤20 ppm (5m)
Total sulphur .....≤50 ppm
Al .....≤0.5 ppm
Ba .....≤0.1 ppm
Ca .....≤0.5 ppm
Cd .....≤0.05 ppm
Co .....≤0.02 ppm
Cr.....≤0.02 ppm
Cu .....≤0.02 ppm
Fe .....≤0.1 ppm
Mg .....≤0.1 ppm
Mn .....≤0.02 ppm
Ni .....≤0.02 ppm
Pb .....≤0.1 ppm
Sn .....≤0.1 ppm
Zn .....≤0.1 ppm

Code	Size	Packaging	Notes
447801	1 l	Glass bottle	
447804	5 l	Aluminium can	
447802	18 kg	Aluminium can	

Petroleum ether 30 - 50°C > RE - Pure

RE

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 15° C .....≥0.633
Residue on evaporation .....≤100 ppm
Boling point min. .....≥30 °C
Boiling point max.....≤50 °C

Code	Size	Packaging	Notes
341034	1 l	Glass bottle	
341032	18 kg	Aluminium can	

Petroleum ether 30 - 40°C

Etere di petrolio 30 - 40°C • Ether de pétrole 30 - 40°C • Eter de petróleo 30 - 40°C

CAS: 101316-46-5

Classification transport
ONU: 1268
Transport Hazard class: 3
Packing group II

Danger
H225-H336-H304-H411
P210-P241-P273-P303+P361+P353-P304+P340-P403+P235

Petroleum ether 30 - 40°C > RPE - For analysis

RPE

Description	Clear liquid	Ready carbonizable substances	Conform	Subst. reducing KMnO4	≤20 ppm (5m)	Cu	≤0.02 ppm
Colour (APHA)	≤10	Density at 15° C	≥0.630	Total sulphur	≤50 ppm	Fe	≤0.1 ppm
Identification	Positive	Water (K.F.)	≤100 ppm	Al	≤0.5 ppm	Mg	≤0.1 ppm
Alcohol miscibility	Complete	Residue on evaporation	≤10 ppm	Ba	≤0.1 ppm	Mn	≤0.02 ppm
Diethyl ether miscib.	Complete	Acidity (acetic acid)	≤0.7 ppm	Ca	≤0.5 ppm	Ni	≤0.02 ppm
Boling point min.	≥30 °C	Alcalinity (NH3)	≤0.2 ppm	Cd	≤0.05 ppm	Pb	≤0.1 ppm
Boiling point max	≤40 °C	Benzene	≤200 ppm	Co	≤0.02 ppm	Sn	≤0.1 ppm
Fat oils	Conform	Unsaturated hydrocarbon	≤0.4 %	Cr	≤0.02 ppm	Zn	≤0.1 ppm

Code	Size	Packaging	Notes
447793	1 l	Glass bottle	
447795	5 l	Aluminium can	
447792	18 kg	Aluminium can	

Phenacetin ▶ p-Acetylphenetidine

o-Phenantroline monohydrate

o-Fenantrolina monoidrata • o-Phénanthroline monohydraté • o-Fenantrolina monohidrato

Synonym:
1,10-Phenanthroline monohydrate

$C_{12}H_8N_2.H_2O$
Molecular Weight: 198,21
CAS: 5144-89-8
EEC-N: 200-629-2

Classification transport
ONU: 3143
Transport Hazard class: 6.1
Packing group II

Danger
H301-H412
P264-P273-P270-P301+P310a-P330-P321

o-Phenantroline monohydrate > RPE - For analysis - ACS

RPE

Description	White - pink powder	Suitab. as indicator	Conform	Assay	≥ 99.0 %
Identification	Positive	Iron sensitivity	Conform		

Code	Size	Packaging	Notes
450038	5 g	Glass bottle	
450039	25 g	Glass bottle	

Redox indicator

o-Phenantroline-Iron (II) sulphate solution in sulphuric acid

o-Fenantrolina - Ferro solfato oso soluzione in acido solforico • o-Phénanthroline-Fer (II) sulfate • o-Fenantrolina-Hierro (II) sulfato solución en acido sulfúrico

Synonym:
1,10-Phenanthroline iron(II) sulfate complex
o-Phenanthroline ferrous sulfate complex

$[Fe(C_{12}H_8N_2)_3]SO_4$
Molecular Weight: 692,52
CAS: 14634-91-4

H412
P273-P501a

o-Phenantroline-Iron (II) sulphate solution in sulphuric acid > RPE - For analysis

RPE

Description	Red clear liquid	Identification	Positive

Code	Size	Packaging	Notes
E450043	100 ml	Glass bottle	

1,10-Phenanthroline iron(II) sulfate complex ▶ Ferroin 0.025 mol/l solution

Phenylhydrazine hydrochloride

Fenilidrazina cloridrato • Phénylhydrazine chlorhydrate • Fenilhidracina clorhidrato

$C_6H_5NHNH_2.HCl$
Molecular Weight: 144,61
CAS: 59-88-1
EEC-N: 200-444-7

Classification transport
ONU: 2811
Transport Hazard class: 6.1
Packing group III

Danger
H301-H311-H331-H315-H319-H317-H341-H350-H372-H400-HA26
P264-P273-P271-P304+P340-P305+P351+P338-P301+P310a

Phenylhydrazine hydrochloride > RPE - For analysis

RPE

Description ..... White powder
Identification ..... Positive
Sulphated ash ..... ≤ 0.05 %
Assay (acidimetric) ..... ≥ 99.0 %

Code	Size	Packaging	Notes
450843	50 g	Plastic bottle	

Phenol

Fenolo • Phénol • Fenol

Synonym:
Hydroxybenzene

C_6H_5OH
Molecular Weight: 94,11
CAS: 108-95-2
EEC-N: 203-632-7

Classification transport
ONU: 1671
Transport Hazard class: 6.1
Packing group II

Danger
H301-H311-H331-H314-H341-H373
P264-P271-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Phenol > RPE - For analysis - ACS

RPE

Description ..... Crystalline mass
Identification ..... Positive
Appearance of solution ..... Conform ACS
Freezing point ..... ≥ 40.5 °C (s.s.)
Water (K.F.) ..... ≤ 0.5 %
Residue on evaporation ..... ≤ 0.05 %
Assay (iodometric) ..... ≥ 99.0 %

Code	Size	Packaging	Notes
451287	1 kg	Glass bottle	

Phenol > RPE - Crystals - For analysis

RPE

Description ..... Colourless or faintly pink or faintly yellowish
Identification ..... Positive
Melting point ..... ≥ 40.5 ° C
Water (K.F.) ..... ≤ 0.2 %
Residue on evaporation ..... ≤ 100 ppm
Chloride ..... ≤ 5 pmm
Ca ..... ≤ 0.5 ppm
Cd ..... ≤ 0.05 ppm
Co ..... ≤ 0.02 ppm
Cr ..... ≤ 0.05 ppm
Mg ..... ≤ 0.1 ppm
Mn ..... ≤ 0.02 ppm
Ni ..... ≤ 0.1 ppm
Zn ..... ≤ 0.5 ppm
Assay (GLC) ..... ≥ 99.5 %

Code	Size	Packaging	Notes
451293	500 g	Glass bottle	
451295	25 kg	Plastic bucket	

Phenol > ERBApharm - According to pharmacopoeia : Ph.Eur.-USP-FU-Ph.Franc.-BP-DAB

ERBApharm

Description ..... Crystalline mass
Identification ..... Positive
Acidity ..... Conform Ph.Eur.
Appearance of solution ..... Conform Ph.Eur.
Reaction, solution app. ..... Conform USP-NF
Freezing point ..... ≥ 39.5 °C
Water (K.F.) ..... ≤0.5 %
Not volatile residue ..... ≤0.05 %
Assay (iodometric) ..... 99.0 ÷ 100.5 %

Code	Size	Packaging	Notes
343407	1 kg	Glass bottle	
343408	5 kg	Plastic jar	

Phenol liquified 85%

Fenolo liquido 85% • Phénol liquide 85% • Fenol liquido 85%

Synonym:
Hydroxybenzene

C_6H_5OH
Molecular Weight: 94.11
CAS: 108-95-2

Classification transport
ONU: 2821
Transport Hazard class: 6.1
Packing group II

Danger
H301-H311-H330-H314-H318-H341-H373
P210-P264-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Phenol liquified 85% > RE - Pure

RE

Description ..... Clear liquid
Identification ..... Positive
Reaction ..... Conform
Not volatile residue ..... ≤0.05 %
Assay ..... 82.0 ÷ 86.5 %

Code	Size	Packaging	Notes
343411	1 l	Glass bottle	
343414	5 l	Metallic can	
343412	27 kg	Metallic can	

Phenol red
Rosso fenolo • Rouge de phénol • Rojo de fenol

Synonym:
Phenolsulfonphthalein

$C_{19}H_{14}O_5S$
Molecular Weight: 354,38
CAS: 143-74-8
EEC-N: 205-609-7

Warning
H315-H319-H335
P264-P271-P304+P340-P305+P351+P338-P312a-P332+P313

Phenol red > RPE - For analysis - ACS
RPE

Description ..... Red crystalline powder
Identification ..... Positive
Appearance of solution ..... Conform ACS
Colour change..... yellow red
pH range ..... 6.8 - 8.2

Code	Size	Packaging	Notes
476838	5 g	Glass bottle	
476839	25 g	Glass bottle	

Clark indicator series. Dye for microscopy

Phenol Red solution 0.2% in ethanol
Rosso fenolo soluzione 0,2% in alcole etilico • Rouge de phénol solution 0.2% dans l'éthanol • Rojo de fenol solución 0.2% en alcohol etilico

Warning
H319
P264-P280-P305+P351+P338-P337+P313

Phenol Red solution 0.2% in ethanol > RPE - For analysis
RPE

Description .....Red clear liquid
Identification ..... Positive
Sensitivity(6.8-8.4) ..... Conform
Colour change..... yellow red

Code	Size	Packaging	Notes
E476845	250 ml	Glass bottle	

Indicator series Clark indicator acid-base (pH 6.4 to 8.2)

Phenol red solution
Rosso fenolo solzione • Rouge de phénol solution • Rojo de fenol solución

Warning
H315-H319
P264-P280-P305+P351+P338-P332+P313-P337+P313-P302+P352a

Phenol red solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1
RS

Code	Size	Packaging	Notes
611063601	100 ml	Plastic bottle	Ref Ph.Eur 1063601 / Colour change: pH 6.8 (yellow) to pH 8.4 (reddish-violet)
611063603	500 ml	Plastic bottle	Phenol red solution R2 Ref Ph.Eur 1063603

Phenolphthalein
Fenolftaleina • Phénolphtaléine • Fenolftaleína

Synonym:
3,3-bis(4-Hydroxyphenyl)-1(3H)isobenzofuranone

$C_{20}H_{14}O_4$
Molecular Weight: 318,33
CAS: 77-09-8
EEC-N: 201-004-7

Danger
H341-H350-H361f-HA26
P280-P201-P202-P308+P313-P405-P501a

Phenolphthalein > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP
RPE

Description ..... White powder
Identification ..... Positive
Appear. of alcohol sol..... Conform
Colour change..... Colourless-red
pH range ..... 8.0 ÷ 10.0

Code	Size	Packaging	Notes
451154	100 g	Plastic bottle	
451156	500 g	Plastic bottle	

Phenolphthalein solution 1% in ethanol

Fenolftaleina soluzione 1% in alcole etilico • Phénolphthaléine solution à 1% dans l'éthanol • Fenolftaleína solución 1% en alcohol etilico

Classification transport
ONU: 1170
Transport Hazard class: 3
Packing group III

Warning
H226-H319
P210-P241-P264-P303+P361+P353-P305+P351+P338-P403+P235

Phenolphthalein solution 1% in ethanol > RS - For analysis according to Ph. Eur. Chap. 4.1.1 — RS

Code	Size	Packaging	Notes
611063703	100 ml	Plastic bottle	Phenolphtalein solution R1 Ref Ph.Eur 1063703

Phenolphthalein solution 1% in ethanol > RS - For analysis according to USP — RS

Code	Size	Packaging	Notes
617000131	100 ml	Plastic bottle	Phenolphtalein TS

Phenolphthalein solution 1% in ethanol > RPE - For analysis — RPE

Description ..... Clear colourless liquid
Identification ..... Positive
Sensit.(pH 8.3-10.0)..... Conform
Colour change..... colurless-purple

Code	Size	Packaging	Notes
451191	250 ml	Glass bottle	
451192	1 l	Glass bottle	

Acid-base indicator (pH 8.2 to 10.0)

Phenolphthalein solution 0.1%

Fenolftaleina soluzione 0.1% • Phénolphtaléine solution 0.1% • Fenolftaleína solución 0.1%

$C_6H_8N_2.HCl$
Molecular Weight: 144,6
CAS: 59-88-1

Classification transport
ONU: 1170
Transport Hazard class: 3
Packing group III

Warning
H226-H319
P210-P241-P264-P303+P361+P353-P305+P351+P338-P403+P235

Phenolphthalein solution 0.1% > RS - For analysis according to Ph. Eur. Chap. 4.1.1 — RS

Code	Size	Packaging	Notes
611063702	100 ml	Plastic bottle	Ref Ph.Eur 1063702

Phenolphthalein paper

Cartina fenolftaleina • Papier phénolphtaléine • Fenolftaleína papel

Phenolphthalein paper > RS - For pHmetry — RS

Code	Size	Packaging	Notes
435060000	1 roll	Box	Paper phenolphthalein, Color change : white --> red, change pH 8.3-->10.0

Phenylacetic acid

Acido fenilacetico • Acide phénylacétique • Acido fenilacético

Synonym:
o-tolyl acid
Benzeneacetic acid

$C_6H_5CH_2COOH$
Molecular Weight: 136,14
CAS: 103-82-2
EEC-N: 203-148-6

Warning
H319
P264-P280-P305+P351+P338-P337+P313

Phenylacetic acid > RPE - For analysis — RPE

Description ..... White crystalline powder
Identification ..... Positive
Melting point..... 75.0 ÷ 77.0 °C
Total chlorine ..... ≤50 ppm
Water-insoluble matter ..... ≤200 ppm
Heavy metals (Pb)..... ≤10 ppm
Residue on ignition..... ≤500 ppm
Total sulphur ..... ≤20 ppm
Fe ..... ≤20 ppm
Assay (acidimetric) ..... ≥99 %

Code	Size	Packaging	Notes
405598	100 g	Plastic bottle	
405597	1 kg	Plastic bottle	

Phenylacetic acid > RE - Pure

RE

Description ..... White crystals | Identification ..... Positive | Melting point ..... 75.0 ÷ 77.0 °C | Assay (acidimetric) ..... ≥97 %

Code	Size	Packaging	Notes
303507	1 kg	Plastic bottle	

L-Phenylalanine

L-Fenilalanina • L-Phénylalanine • L-Fenilalanina

Synonym:
(S)-2-Amino-3-phenylpropionic acid

$C_6H_5CH_2CH(NH_2)COOH$
Molecular Weight: 165,19
CAS: 63-91-2
EEC-N: 200-568-1

L-Phenylalanine > RPE - For analysis

RPE

Description ..... White crystalline powder
Identification ..... Positive
Potere rotator. specif.(C=2 in Acqua) ..... -33.0 ÷ -35.2 ° s.s.
Pb ..... ≤ 10 ppm
pH solution 1% ..... 5.4 ÷ 6.0
Loss on drying ..... ≤ 0.3 %
Heavy metals (Pb) ..... ≤ 20 ppm
Residue on ignition ..... ≤ 0.1 %
Assay (non-aqueos medium) ..... 98.5 ÷ 102.0 % (s.s.)

Code	Size	Packaging	Notes
450328	5 g	Glass bottle	
450329	100 g	Glass bottle	

2-Phenylethanol

Alcole 2-feniletilico • 2-Phényléthanol • Alcohol 2-feniletílico

Synonym:
2-Phenylethyl alcohol

$C_6H_5CH_2CH_2OH$
Molecular Weight: 122,17
CAS: 60-12-8
EEC-N: 200-456-2

Danger
H302-H311-H315-H318
P264-P280h-P280i-P305+P351+P338-P330-P332+P313

2-Phenylethanol > ERBApharm - According to pharmacopoeia : USP

ERBApharm

Description ..... Clear colourless liquid
Identification ..... Positive
Chlorinated compounds ..... Conform USP-NF
Aldehyde ..... Conform USP-NF
Density at 25° C ..... 1.017 ÷ 1.020
Refractive index at 20°C ..... 1.531 ÷ 1.534
Sulphated ash ..... ≤50 ppm
Residue solvents ..... Conform USP-NF
Origin (BSE/TSE) ..... Vegetable

Code	Size	Packaging	Notes
529022	1 l	Glass bottle	
529021	2.4 l	Glass bottle	

2-Phenylethanol > RE - Pure

RE

Description ..... Llquido limpido incolore
Identification ..... Positive
Density at 20° C ..... 1.017 ÷ 1.023
Refractive index at 20° C ..... 1.529 ÷ 1.535
Assay (CPG) ..... ≥ 98 %

Code	Size	Packaging	Notes
308731	1 l	Glass bottle	

Phenylfluorone

Fenilfluorone • Phénylfluorone • Fenilfluorona

$C_{19}H_{12}O_5$
Molecular Weight: 320,3
CAS: 975-17-7
EEC-N: 213-550-3

Warning
H315-H319-H335
P264-P271-P304+P340-P305+P351+P338-P312a-P332+P313

Phenylfluorone > RPE - For analysis

RPE

Description ..... Brown powder
Identification ..... Positive
Germanium sensitivity ..... ≤0.5 µg/ml

Code	Size	Packaging	Notes
450777	1 g	Glass bottle	

Reagent for Ge determination

Phenylhydrazine hydrochloride solution

Fenilidrazina cloridrato soluzione • Phénylhydrazine chlorhydrate solution • Fenilhidracina clorhidrata solución

$C_6H_8N_2.HCl$
Molecular Weight: 144,6
CAS: 59-88-1

Classification transport
ONU: 3264
Transport Hazard class: 8
Packing group III

Danger
H350-HEU208-HA26
P280-P201-P202-P308+P313-P405-P501a

Phenylhydrazine hydrochloride solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1 — RS

Code	Size	Packaging	Notes
611064501	100 ml	Glass bottle	Ref Ph.Eur 1064501

Phloroglucinol

Floroglucina • Phloroglucinol • Floroglucina

Synonym:
1,3,5-Trihydroxybenzene

$1,3,5\text{-}(OH)_3C_6H_3$
Molecular Weight: 126,11
CAS: 108-73-6
EEC-N: 203-611-2

Warning
H315-H319-H335
P264-P271-P304+P340-P305+P351+P338-P312a-P332+P313

Phloroglucinol > RE - Pure — RE

Description ..... Polvere o scaglie bianche
Identification ..... Positive
Alcohol solubility ..... Conform
Melting point..... 210 ÷ 215 ° C
Water (K.F.) .....≤ 2 %
Assay (HPLC) .....≥99 %

Code	Size	Packaging	Notes
452031	10 g	Glass bottle	
452033	50 g	Glass bottle	

Phloxin B

Floxina B • Phloxine B • Floxina B

Synonym:
Acid Red 92
2',4',5',7'-Tetrabromo-4,5,6,7-tetrafluoresceine disodium salt

$C_{20}H_2Br_4Cl_4Na_2O_5$
Molecular Weight: 829,64
CAS: 18472-87-2
EEC-N: 242-355-6

Phloxin B > RS - For microscopy - C.I. 45410 — RS

Description .....Red brown powder
Identification ..... Positive

Code	Size	Packaging	Notes
452051	10 g	Glass bottle	
452052	25 g	Glass bottle	

Dye for botanical, cytology and histology

Phosphate standard solution

Fosfati standard soluzione • Phosphate solution standard • Fosfato, solución patrón

Phosphate standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2 — RS

Code	Size	Packaging	Notes
615002200	100 ml	Plastic bottle	A 5 ppm solution : to dilute according to Ref Ph.Eur 5002200
615004200	1 l	Plastic bottle	A 200 ppm solution Ref Ph.Eur 5004200

Phosphate standard solution > RS - Standard solution for ion chromatography — RS

Code	Size	Packaging	Notes
503341	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503343	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Phosphate buffer pH 2.0
Tampone fosfato pH 2.0 • Tampon phosphate pH 2.0 • Tampon fosfato pH 2.0

Phosphate buffer pH 2.0 > RS - For analysis according to Ph. Eur. Chap. 4.1.3 RS

Code	Size	Packaging	Notes
614007900	1 l	Plastic bottle	Ref Ph.Eur 4007900

Phosphate buffer pH 3.0
Tampone fosfato pH 3.0 • Tampon phosphate pH 3.0 • Tampon fosfato pH 3.0

Phosphate buffer pH 3.0 > RS - For analysis according to Ph. Eur. Chap. 4.1.3 RS

Code	Size	Packaging	Notes
614000501	100 ml	Plastic bottle	Ref Ph.Eur 4000500
614000500	1 l	Plastic bottle	Ref Ph.Eur 4000500

Phosphate buffer pH 5.5
Tampone fosfato pH 5.5 • Tampon phosphate pH 5.5 • Tampon fosfato pH 5.5

Phosphate buffer pH 5.5 > RS - For analysis according to Ph. Eur. Chap. 4.1.3 RS

Code	Size	Packaging	Notes
614002000	1 l	Plastic bottle	Ref Ph.Eur 4002000

Phosphate buffer pH 6.8
Tampone fosfato pH 6.8 • Tampon phosphate pH 6.8 • Tampon fosfato pH 6.8

Phosphate buffer pH 6.8 > RS - For analysis RS

pH..... 6.75 - 6.85 Temperature ..... 19 ÷ 21 °C

Code	Size	Packaging	Notes
524952	10 l	Plastic tank	

Composition : Potassium dihydrogen phosphate 6.8g/l, sodium hydroxide 0.9g/l, deionized water 992.3 g/l. Traceable to NIST

Phosphate buffer pH 6.8 > RS - For analysis according to Ph. Eur. Chap. 4.1.3 RS

Code	Size	Packaging	Notes
614003400	1 l	Plastic bottle	Ref Ph.Eur 4003400

Phosphate buffer pH 6.0
Tampone fosfato pH 6.0 • Tampon phosphate pH 6.0 • Tampon fosfato pH 6.0

Phosphate buffer pH 6.0 > RS - For analysis according to Ph. Eur. Chap. 4.1.3 RS

Code	Size	Packaging	Notes
614002400	1 l	Plastic bottle	Ref Ph.Eur 4002400

Phosphate buffer pH 7.4
Tampone fosfato pH 7.4 • Tampon phosphate pH 7.4 • Tampon fosfato pH 7.4

Phosphate buffer pH 7.4 > RS - For analysis RS

Temperature of measurement ..... 19 - 21 °C pH..... 7.35 - 7.45 unité pH

Code	Size	Packaging	Notes
524965	5 l	Kubidos	
PS0740/95	5 l	Kubidos	

Composition : Potassium dihydrogen phosphate 1.9g/l, disodium hydrogen phosphate 19.3g/l, deionized water 992.5 g/l. Traceable to NI ST

Phosphate buffer pH 7.4 > RS - For analysis according to Ph. Eur. Chap. 4.1.3 — RS

Code	Size	Packaging	Notes
614004800	1 l	Plastic bottle	Ref Ph.Eur 4004800

Phosphate buffer pH 9.0
Tampone fosfato pH 9.0 • Tampon phosphate pH 9.0 • Tampon fosfato pH 9.0

Phosphate buffer pH 9.0 > RS - For analysis according to Ph. Eur. Chap. 4.1.3 — RS

Code	Size	Packaging	Notes
614008300	1 l	Plastic bottle	Ref Ph.Eur 4008300

Phosphomolybdic acid
Acido fosfomolibdico • Acide phosphomolybdique • Acido fosfomolíbdico

Synonym: *Molybdophosphoric acid*

$2H_3PO_4.20MoO_3.48H2O$
Molecular Weight: 3939,5
CAS: 51429-74-4

Classification transport
ONU: 3084
Transport Hazard class: 8
Packing group II

Danger
H272-H314
P221-P264-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Phosphomolybdic acid > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP — RPE

Description ..... Yellow crystals
Identification ..... Positive
Ammonium ..... ≤ 100 ppm
Chloride ..... ≤ 200 ppm
Water-insoluble matter ..... ≤ 100 ppm
Heavy metals (Pb) ..... ≤ 50 ppm
Sulphate ..... ≤ 250 ppm
Ca ..... ≤ 200 ppm
Fe ..... ≤ 50 ppm

Code	Size	Packaging	Notes
405913	50 g	Glass bottle	
405915	250 g	Glass bottle	

Phosphomolybdotungstic reagent
Reattivo fosfomolibdotungstico • Réactif phosphomolybdotungstique • Fosfomolibdotungstenico reactivo

Classification transport
ONU: 3264
Transport Hazard class: 8
Packing group III

Warning
H302-H315-H319
P264-P280-P305+P351+P338-P330-P332+P313-P337+P313

Phosphomolybdotungstic reagent > RS - For analysis according to Ph. Eur. Chap. 4.1.1 — RS

Code	Size	Packaging	Notes
611065000	100 ml	Plastic bottle	Ref Ph.Eur 1065000

Storage: at 2 °C to 8 °C

Phosphonic acid
Acido fosfonico • Acide phosphonique • Acido fosfonico

Synonym: *Phosphorous acid*

H_3PO_3
Molecular Weight: 82
CAS: 13598-36-2
EEC-N: 237-066-7

Classification transport
ONU: 2834
Transport Hazard class: 8
Packing group III

Danger
H302-H314
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Phosphonic acid > RPE - For analysis — RPE

Description ..... White crystals
Identification ..... Positive
Chloride ..... ≤ 50 ppm
Phosphoric acid ..... ≤ 1 %
Heavy metals (Pb) ..... ≤ 20 ppm
Sulphate ..... ≤ 10 ppm
Fe ..... ≤ 5 ppm
Assay (acidimetric) ..... ≥ 98.5 %

Code	Size	Packaging	Notes
406056	500 g	Glass bottle	
406053	20 kg	Plastic bucket	

Phosphoric acid ▶ Orthophosphoric acid 99%

Phosphoric anhydride ▶ Phosphorus pentoxide

Phosphorous acid ▶ Phosphonic acid

Phosphorus standard solution

Fosforo standard soluzione • Phosphore solution standard • Fósforo, solución patrón

Danger
H314
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Phosphorus standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505762	100 ml	Plastic bottle	conc. 10 ppm Matrix : Water
505765	100 ml	Plastic bottle	conc. 100 ppm Matrix : Water
505763	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Phosphorus standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
503791	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503795	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Water
503793	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503797	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Water

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Phosphorus pentoxide

Anidride fosforica • Anhydride phosphorique • Anhídrido fosfórico

Synonym:
Phosphoric anhydride

P_2O_5
Molecular Weight: 141,94
CAS: 1314-56-3
EEC-N: 215-236-1

Classification transport
ONU: 1807
Transport Hazard class: 8
Packing group II

Danger
H314
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Phosphorus pentoxide > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description ..... White powder
Identification ..... Positive
Water-insoluble matter ..... ≤200 ppm
Reducing KMn04 (P2O3) .. ≤200 ppm(10m)
Ammonium ..... ≤100 ppm
Heavy metals (Pb)..... ≤100 ppm
Assay (acidimetric) ..... ≥98.0 %

Code	Size	Packaging	Notes
421808	100 g	Glass bottle	
421802	250 g	Glass bottle	

Phosphorus pentoxide > RE - Pure

RE

Description ..... White powder
Identification ..... Positive
Heavy metals (Pb)..... ≤500 ppm
Assay (acidimetric) ..... ≥98 %

Code	Size	Packaging	Notes
317753	250 g	Glass bottle	

Phosphosulfuric acid
Acido fosfosolforico • Acide phosphosulfurique • Acido fosfosulfúrico

Classification transport
ONU: 3264
Transport Hazard class: 8
Packing group II

Danger
H314-H318
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Phosphosulfuric acid > RS - For nitrogen detection according to Kjeldahl
RS

Description ..... Clear colourless liquid
Identification ..... Positive
Ammonium ..... ≤1 ppm
Nitrate ..... ≤0.2 ppm

Code	Size	Packaging	Notes
E406101	1 l	Glass bottle	

Phosphotungstic acid
Acido fosfotungstico • Acide phosphotungstique • Acido fosfotúngstico

Synonym:
Tungstophosphoric acid

$H_3PO_4.12WO_3.H_2O$
Molecular Weight: 2,880,05
CAS: 12501-23-4

Classification transport
ONU: 3260
Transport Hazard class: 8
Packing group III

Danger
H314
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Phosphotungstic acid > RPE - For analysis
RPE

Description ..... White powder
Identification ..... Positive
Chloride ..... ≤ 20 ppm
Sulphate ..... ≤ 50 ppm
Ammonium ..... ≤ 50 ppm
Residue on calcination ..... ≤ 17 %
Heavy metals (Pb) ..... ≤ 40 ppm
Fe ..... ≤ 30 ppm
Na ..... ≤ 100 ppm
Assay ..... ≥ 82 %

Code	Size	Packaging	Notes
406154	100 g	Glass bottle	

Phosphotungstic acid solution
Acido fosfotungstico soluzione • Acide phosphotungstique solution • Acido fosfotúngstico solución

Synonym:
Phosphotungstic acid hydrate
Tungstophosphoric acid

Phosphotungstic acid solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1
RS

Code	Size	Packaging	Notes
611065200	100 ml	Plastic bottle	Ref Ph.Eur 1065200

o-Phthalaldehyde
o-Ftalaldeide • o-Phtalaldéhyde • o-Ftaldialdehído

Synonym:
Benzene-1,2-dicarboxaldehyde

$C_6H_4(CHO)_2$
Molecular Weight: 134,13
CAS: 643-79-8
EEC-N: 211-402-2

Danger
H301
P264-P270-P301+P310a-P330-P321-P405

o-Phthalaldehyde > RPE - For analysis
RPE

Description ..... Yellow-orange crystals
Identification ..... Positive
Melting point ..... 54 ÷ 57 ° C
Water (K.F.) ..... ≤ 0.5 %
Acidity (Phtalic acid) ..... ≤ 0.3 %
Assay (GLC) ..... ≥ 98.0 %

Code	Size	Packaging	Notes
452751	10 g	Glass bottle	
452752	100 g	Glass bottle	

Phthalic acid

Acido ftalico • Acide phtalique • Acido ftálico

Synonym:
1,2-Benzenedicarboxylic acid

$1,2\text{-}(COOH)_2C_6H_4$
Molecular Weight: 166,13
CAS: 88-99-3
EEC-N: 201-873-2

Warning
H315-H319-H335
P264-P271-P280-P304+P340-P305+P351+P338-P312a

Phthalic acid > RPE - For analysis - Reag. Ph.Eur.

RPE

Description ..... White crystalline powder Identification ..... Positive Melting point..... ~ 210 °C Assay (acidimetric) ..... ≥ 98.5 %

Code	Size	Packaging	Notes
406205	250 g	Plastic bottle	

Phthalic anhydride

Anidride ftalica • Anhydride phtalique • Anhídrido ftálico

$C_6H_4(CO)_2O$
Molecular Weight: 148,12
CAS: 85-44-9
EEC-N: 201-607-5

Classification transport
ONU: 2214
Transport Hazard class: 8
Packing group III

Danger
H302-H315-H318-H334-H317-H335
P264-P271-P284-P304+P340-P305+P351+P338-P342+P311a

Phthalic anhydride > RE - Pure

RE

Description ..... White flakes Identification ..... Positive Melting point..... 129 ÷ 132 °C Assay ..... ≥ 98.5 %

Code	Size	Packaging	Notes
318007	1 kg	Plastic bottle	

3-Picolinic acid ▶ Nicotinic acid

Picric acid solution

Acido picrico soluzione • Acide picrique solution • Acido pícrico solución

Synonym:
2,4,6-Trinitrophenol

$C_6H_3N_3O_7$
Molecular Weight: 229,11
CAS: 88-89-1

HEU210

Picric acid solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611065801	100 ml	Plastic bottle	Ref Ph.Eur 1065801
611065802	100 ml	Plastic bottle	Picric acid solution R1 Ref Ph.Eur 1065802

Picric acid solution > RPE - For analysis

RPE

Description ..... Yellow clear liquid Identification ..... Positive Density at 20° C ..... 1.00 ÷ 1.02 Assay ..... 1.1 ÷ 1.3 %

Code	Size	Packaging	Notes
409302	500 ml	Plastic bottle	
409305	2.5 l	Plastic bottle	

Saturated aqueous solution ~ 1.2%

Piperidine

Piperidina • Pipéridine • Piperidina

Synonym:
Hexahydropyridine

$NH(CH_2)_4CH_2$
Molecular Weight: 85,15
CAS: 110-89-4
EEC-N: 203-813-0

Classification transport
ONU: 2401
Transport Hazard class: 8
Packing group I

Danger
H225-H311-H331-H314
P210-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Piperidine > RS - For peptide synthesis

RS

Refractive index at 20°C.....1.45 - 1.454 Water content (K.F.).....≤ 3000 mg/Kg Colour ..... ≤ 10 Hazen Assay (GC)..... ≥ 99 %

Code	Size	Packaging	Notes
P0663516	1 l	Glass bottle	
P0663521	2.5 l	Glass bottle	

Piperidine > RPE - For analysis

RPE

Description ..... Clear liquid
Colour ..... < 50 APHA
Density at 20° C ..... 0.856 ÷ 0.866
Assay (GLC) .....≥99.0 %
Water (K.F.) ..... <0.3 %

Code	Size	Packaging	Notes
469551	100 ml	Glass bottle	
469552	500 ml	Glass bottle	

Piperidine > RE - Pure

RE

Refractive index at 20°C..... 1.450 - 1.454
Identification (IR)..... Conform
Density d20/4 ..... 0.856 - 0.866
Water content (K.F.) ..... ≤ 5000 mg/Kg
Colour .....≤ 20 Hazen
Assay (GC) .....≥ 99 %

Code	Size	Packaging	Notes
P0660216	1 l	Glass bottle	
P0660221	2.5 l	Glass bottle	
P0660248	25 l	Metal drum	

Platinum standard solution

Platino standard soluzione • Platine solution standard • Platino, solución patrón

Classification transport
ONU: 1760
Transport Hazard class: 8
Packing group III

Platinum standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505787	100 ml	Plastic bottle	conc. 10 ppm Matrix : Hydrochloric acid
505788	100 ml	Plastic bottle	conc. 100 ppm Matrix : Hydrochloric acid
505789	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Platinum standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
503831	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
503835	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrochloric acid
503833	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
503837	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrochloric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Polyvinylpyrrolidone

Polivinilpirrolidone • Polyvinylpyrrolidone • Polivinilpirrolidona

Synonym:
PVP
Polyvidone

$(C_6H_9NO)n$
Molecular Weight: 25000-30000
CAS: 9003-39-8

Danger
H300
P264-P270-P301+P310a-P330-P321-P405

Polyvinylpyrrolidone > RPE - For analysis

RPE

Description ..... White powder Identification ..... Positive Loss on drying .....≤5 %

Code	Size	Packaging	Notes
470071	500 g	Plastic bottle	
470072	1,5 kg	Plastic jar	

Ponceau red BS

Rosso Ponceau BS • Rouge Ponceau BS • Rojo Ponceau BS

Synonym:
Ponceau BS
Acid Red 66

$C_{22}H_{14}N_4Na_2O_7S_2$
Molecular Weight: 556,48
CAS: 4196-99-0
EEC-N: 224-084-5

Ponceau red BS > RS - For microscopy - C.I. 26905

RS

Description .....Red brick powder Identification ..... Positive

Code	Size	Packaging	Notes
476941	10 g	Glass bottle	

Dye for histology

Ponceau red S

Rosso Ponceau S • Rouge Ponceau S • Rojo Ponceau S

Synonym:
3-Hydroxy-4-(2-sulfo-4-[4-sulfophenylazo] phenylazo)-2,7-naphthalenedisulfonic acid sodium salt

$C_{22}H_{12}N_4Na_4O_{13}S_4$
Molecular Weight: 760,56
CAS: 6226-79-5
EEC-N: 228-319-2

Warning
H315-H319-H335
P264-P271-P304+P340-P305+P351+P338-P312a-P332+P313

Ponceau red S > RS - For microscopy - C.I. 27195

RS

Description ..... Brown powder Identification ..... Positive

Code	Size	Packaging	Notes
476981	5 g	Glass bottle	
476982	25 g	Glass bottle	

Dye for histochemistry

Potassium standard solution

Potassio standard soluzione • Potassium solution standard • Potasio, solución patrón

Danger
H314
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Potassium standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2

RS

Code	Size	Packaging	Notes
615002401	100 ml	Plastic bottle	A 20 ppm solution : to dilute according to Ref Ph.Eur 5002401
615002402	100 ml	Plastic bottle	A 0.1 % solution Ref Ph.Eur 5002402
615002409	100 ml	Plastic bottle	A 100 ppm solution : to dilute according to Ref Ph.Eur 5002400
615005100	100 ml	Plastic bottle	A 600 ppm solution : to dilute according to Ref Ph.Eur 5005100

Potassium standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505682	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505685	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid
505683	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Potassium standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
503671	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503675	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
503673	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503677	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Potassium standard solution > RS - Standard solution for AAS

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
507753	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
E497605	100 ml	Glass bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
506960	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
E497601	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Potassium standard solution > RS - NORMEX - Concentrated solution for AAS

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
470081		Plastic vial	conc. 1.000 ppm Matrix : Nitric acid - Volume : 50 ml

Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package

Potassium standard solution > RS - Standard solution for ion chromatography

RS

Code	Size	Packaging	Notes
503271	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503273	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Potassium acetate

Potassio acetato • Potassium acétate • Potasio acetato

CH_3COOK
Molecular Weight: 98,15
CAS: 127-08-2
EEC-N: 204-822-2

Potassium acetate > RPE - For analysis

RPE

Description ..... White granular powder
Identification ..... Positive
pH sol. 5% at 20°C ..... 7.5 ÷ 8.5
Chloride..... ≤ 50 ppm
Sulphate..... ≤ 50 ppm
Heavy metals (Pb)..... ≤ 10 ppm
Fe ..... ≤ 20 ppm
Zn ..... ≤ 20 ppm
Assay (non-aqueos medium)..... ≥ 99 %

Code	Size	Packaging	Notes
470145	100 g	Plastic bottle	
470146	500 g	Plastic bottle	
470147	1 kg	Plastic bottle	
470143	25 kg	Plastic bottle	

Potassium acetate > ERBApharm - According to pharmacopoeia : BP-Ph.Eur.

ERBApharm

Description ..... White crystalline powder
Identification ..... Positive
Appearance of solution .....Conform Ph.Eur.
Reducing substances .....Conform Ph.Eur.
pH solution 5% .....7.5 ÷ 9.0
Loss on drying ..... ≤3.0 %
Chloride.....≤200 ppm
Heavy metals (Pb).....≤4 ppm
Sulphate.....≤200 ppm
Al.....≤1 ppm
Fe .....≤20 ppm
Na..... ≤0.5 %
Assay (non-aqueos medium) .99.0 ÷ 101.0 % s.s.
Origin (BSE/TSE)..... Synthesis

Code	Size	Packaging	Notes
358907	1 kg	Plastic bottle	
358908	5 kg	Plastic jar	
358903	25 kg	Plastic bucket	

Potassium aluminum sulfate dodecahydrate ▶ Aluminum potassium sulfate dodecahydrate

Potassium antimonyl tartrate trihydrate ▶ Antimony potassium tartrate

Potassium bicarbonate

Potassio bicarbonato • Potassium bicarbonate • Potasio bicarbonato

Synonym:
Potassium hydrogen carbonate

$KHCO_3$
Molecular Weight: 100,12
CAS: 298-14-6
EEC-N: 206-059-0

Potassium bicarbonate > RPE - For analysis - ACS

RPE

Description ..... White crystalline powder
Identification ..... Positive
Water-insoluble matter .....≤100 ppm
Ammonium.....≤5 ppm
Chloride.....≤10 ppm
Phosphate .....≤5 ppm
Total sulphur .....≤30 ppm
Heavy metals (Pb).....≤5 ppm
Ca.....≤20 ppm
Fe .....≤5 ppm
Mg .....≤10 ppm
Na.....≤300 ppm
Assay (alkalimetric).....99.7 ÷ 100.5 % s.s.

Code	Size	Packaging	Notes
470285	100 g	Plastic bottle	
470286	500 g	Plastic bottle	
470287	1 kg	Plastic bottle	
470289	5 kg	Plastic jar	

Potassium bisulfate

Potassio bisolfato • Potassium bisulfate • Potasio bisulfato

Synonym:
Potassium hydrogen sulfate

$KHSO_4$
Molecular Weight: 136,17
CAS: 7646-93-7
EEC-N: 231-594-1

Classification transport
ONU: 2509
Transport Hazard class: 8
Packing group II

Danger
H314-H335
P264-P271-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Potassium bisulfate > RPE - For analysis

RPE

Description .....White crystals
Identification ..... Positive
Ammonium .....≤ 20 ppm
Chloride.....≤ 20 ppm
Heavy metals (Pb).....≤ 20 ppm
Ca.....≤ 200 ppm
Fe .....≤ 20 ppm
Assay (acidimetric) .....98 ÷ 102 %

Code	Size	Packaging	Notes
470556	100 g	Plastic bottle	
470557	1 kg	Plastic bottle	
470552	25 kg	Drum	

Potassium bitartrate ▶ Potassium L-tartrate monobasic

Potassium bromate

Potassio bromato • Potassium bromate • Potasio bromato

$KBrO_3$
Molecular Weight: 167,01
CAS: 7758-01-2
EEC-N: 231-829-8

Classification transport
ONU: 1484
Transport Hazard class: 5.1
Packing group II

Danger
H271-H301-H350-HA26
P221-P264-P283-P210a-P280a-P301+P310a

Potassium bromate > RS - For analysis according to Ph. Eur. Chap. 4.2.1 — RS

Code	Size	Packaging	Notes
612000300	50 g	Plastic bottle	Ref Ph.Eur 2000300

Potassium bromate > RPE - For analysis - ISO - ACS - Reag.Ph.Eur. - Reag.USP — RPE

Description ..... White crystals
Identification ..... Positive
pH sol. 5% at 25° C ..... 5.0 ÷ 9.0
Bromide ..... Conform ACS
Water-insoluble matter ..... ≤ 50 ppm
Heavy metals (Pb) ..... ≤ 5 ppm
Sulphate ..... ≤ 50 ppm
Fe ..... ≤ 20 ppm
Na ..... ≤ 100 ppm
Assay (oxidimetric) ..... ≥ 99.8 %

Code	Size	Packaging	Notes
470655	250 g	Plastic bottle	

Potassium bromate 0.033 mol/l (0.198N)

Potassio bromato 0.033 mol/l (0.198N) • Potassium bromate 0.033 mol/l (0.198N) • Potasio bromato 0.033 mol/l (0.198N)

Danger
H350-HA26
P280-P201-P202-P308+P313-P405-P501a

Potassium bromate 0.033 mol/l (0.198N) > RS - For analysis according to Ph. Eur. Chap. 4.2.2 — RS

Code	Size	Packaging	Notes
613004200	1 l	Plastic bottle	Ref Ph.Eur 3004200

Potassium bromate 0.02 mol/l (0.12N)

Potassio bromato 0.02 mol/l (0.12N) • Potassium bromate 0.02 mol/l (0.12N) • Potasio bromato 0.02 mol/l (0.12N)

Potassium bromate 0.02 mol/l (0.12N) > RS - For analysis according to Ph. Eur. Chap. 4.2.2 — RS

Code	Size	Packaging	Notes
613004300	1 l	Plastic bottle	Ref Ph.Eur 3004300

Potassium bromate 0.0167 mol/l (0.1N)

Potassio bromato 0.0167 mol/l (0.1N) • Potassium bromate 0.0167 mol/l (0.1N) • Potasio bromato 0.0167 mol/l (0.1N)

Danger
H350-HA26
P280-P201-P202-P308+P313-P405-P501a

Potassium bromate 0.0167 mol/l (0.1N) > RPE - NORMEX - For analysis — RPE

Description ..... Clear colourless liquid
Identification ..... Positive
Titration factor ..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
470681		Glass ampoule	Volume : 60 ml

Volumetric concentrated solution to prepare 1 L of solution 0,1 N

Potassium bromide
Potassio bromuro • Potassium bromure • Potasio bromuro

KBr
Molecular Weight: 119,01
CAS: 7758-02-3
EEC-N: 231-830-3

Warning
H319
P264-P280i-P305+P351+P338-P337+P313

Potassium bromide > RS - For optical spectroscopy
RS

Description ..... White cryst. powder Identification (I.R.)..... Conform

Code	Size	Packaging	Notes
470701	100 g	Glass bottle	

Potassium bromide > RPE - For analysis - ACS
RPE

Description .....White crystals
Identification ..... Positive
pH sol. 5% at 25° C .....5.0 ÷ 8.8
Water-insoluble matter .....≤ 50 ppm
Bromate .....≤ 10 ppm
Chloride..... ≤ 0.2 %
Iodate.....≤ 10 ppm
Iodide .....≤ 10 ppm
Sulphate.....≤ 50 ppm
Heavy metals (Pb).....≤ 5 ppm
Ba.....≤ 20 ppm
Ca.....≤ 20 ppm
Fe .....≤ 5 ppm
Mg .....≤ 10 ppm
Na..... ≤ 0.02 %
Assay (argentimetric)..... ≥ 99.0 %

Code	Size	Packaging	Notes
470734	100 g	Plastic bottle	
470735	250 g	Plastic bottle	
470737	1 kg	Plastic bottle	
470733	25 kg	Plastic bucket	

Potassium bromide > ERBApharm - According to pharmacopoeia : BP-DAB-Ph.Eur.-Ph.Franc.
ERBApharm

Description ..... White crystalline powder
Identification ..... Positive
Appearance of solution .....Conform Ph.Eur.
Acidity or alkalinity.....Conform Ph.Eur.
Bromate .....Conform Ph.Eur.
Iodide .....Conform Ph.Eur.
Loss on drying ..... ≤ 1.0 %
Chloride..... ≤ 0.6 %
Heavy metals (Pb).....≤ 10 ppm
Mg,alkal.earth met.(Ca) .....≤ 200 ppm
Sulphate.....≤ 100 ppm
Fe .....≤ 20 ppm
Assay (argentimetric)..98.0 ÷ 100.5 % s.s.

Code	Size	Packaging	Notes
359707	1 kg	Plastic bottle	
359702	5 kg	Plastic jar	

Potassium carbonate
Potassio carbonato • Potassium carbonate • Potasio carbonato

K_2CO_3
Molecular Weight: 138,21
CAS: 584-08-7
EEC-N: 209-529-3

Warning
H315-H319-H335
P264-P271-P304+P340-P305+P351+P338-P312a-P332+P313

Potassium carbonate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP
RPE

Description ..... White powder
Identification ..... Positive
Water-insoluble matter .....≤ 100 ppm
Chloride.....≤ 30 ppm
Phosphate .....≤ 10 ppm
Silicate .....≤ 50 ppm
Total sulphur .....≤ 40 ppm
Heavy metals (Pb).....≤ 5 ppm
Ca.....≤ 50 ppm
Fe .....≤ 5 ppm
Mg .....≤ 20 ppm
Na.....≤ 200 ppm
Assay (alkalimetric)..... ≥ 99.0 %

Code	Size	Packaging	Notes
470805	250 g	Plastic bottle	
470807	1 kg	Plastic bottle	
470801	5 kg	Plastic jar	

Potassium carbonate > RE - Pure
RE

Description ..... White crystalline powder
Identification ..... Positive
Chloride.....≤ 20 ppm
Sulphate.....≤ 50 ppm
Heavy metals (Pb).....≤ 1 ppm
Fe .....≤ 5 ppm
Na..... ≤ 0.25 %
Assay (alkalimetric).....99.0 ÷ 100.0 %
Loss on drying ..... ≤ 0.8 %
KOH ..... ≤ 0.15 %

Code	Size	Packaging	Notes
359808	1 kg	Plastic bottle	
359809	5 kg	Plastic jar	
359803	25 kg	Plastic bucket	

Potassium chloride
Potassio cloruro • Potassium chlorure • Potasio cloruro

KCl
Molecular Weight: 74,55
CAS: 7447-40-7
EEC-N: 231-211-8

Potassium chloride > RS - For soils analysis
RS

Assay (argentimetric) ≥ 99.0 %
pH sol. 5% at 25°C 5.4 ÷ 8.6
Water insoluble substances ≤ 0.005 %
Sulphate ≤ 0.002 %
Ammonium (NH4) ≤ 0.00007 %
Phosphate ≤ 0.001 %
Fe ≤ 0.0002 %
Heavy metals (Pb) ≤ 0.0002 %

Code	Size	Packaging	Notes
471181	5 kg	Plastic jar	

Potassium chloride > RPE - For analysis - ISO - ACS - Reag.Ph.Eur. - Reag.USP
RPE

Description White crystals
Identification Positive
Acidity or alkalinity Conform
Appearance of solution Conform
pH sol. 5% at 25° C 5.4 ÷ 8.6
Loss on drying ≤ 1.0 %
Water-insoluble matter ≤ 50 ppm
Mg and alkaline-earth metals (Ca) ≤ 200 ppm
Bromide ≤ 100 ppm
Nitrate,Chlorate (NO3) ≤ 30 ppm
Phosphate ≤ 5 ppm
Iodide ≤ 20 ppm
Sulphate ≤ 10 ppm
Heavy metals (Pb) ≤ 5 ppm
Al ≤ 1 ppm
Ba ≤ 10 ppm
Ca ≤ 20 ppm
Fe ≤ 3 ppm
Mg ≤ 10 ppm
Na ≤ 50 ppm
Assay (argentimetric) 99.0 ÷ 100.5 % s.s.

Code	Size	Packaging	Notes
471175	100 g	Plastic bottle	
471176	500 g	Plastic bottle	
471177	1 kg	Plastic bottle	
471171	5 kg	Plastic jar	
471173	25 kg	Plastic bucket	

Potassium chloride > ERBApharm - According to pharmacopoeia : Ph.Eur.-USP-FU-Ph.Franc.-BP-DAB
ERBApharm

Description White crystalline powder
Identification Positive
Appearance of solution Conform Ph.Eur
Acidity or alkalinity Conform Ph.Eur.
Iodide ≤ 50 ppm
Barium Conform Ph.Eur.
Na Conform USP-NF
Calcium + Magnesium Conform USP-NF
Residue solvents Conform USP-NF
Loss on drying ≤ 1.0 %
Bromide ≤ 0.1 %
Heavy metals (Pb) ≤ 10 ppm
Mg,alkal.earth met.(Ca) ≤ 200 ppm
Sulphate ≤ 300 ppm
Fe ≤ 20 ppm
Assay (argentimetric) 99.0 ÷ 100.5 %
Origin (BSE/TSE) Synthesis
Residual solvents (Current ICH) Conform

Code	Size	Packaging	Notes
360107	1 kg	Plastic bottle	
360109	5 kg	Plastic jar	
360106	25 kg	Plastic bucket	
360104	50 kg	Fibre drum	

Potassium chloride 25g/l
Potassio cloruro soluzione 25g/l • Potassium chlorure 25g/l • Potasio cloruro solución 25g/l

KCl
Molecular Weight: 74.55
CAS: 7447-40-7

Potassium chloride 25g/l in HCl > RS - Ionisation standard solution for AAS
RS

Code	Size	Packaging	Notes
504538	500 ml	Plastic bottle	25 g/l Matrix : Water

Potassium chloride 12g/l

Potassio cloruro soluzione 12g/l • Potassium chlorure 12g/l • Potasio cloruro solución 12g/l

KCl
Molecular Weight: 74.55
CAS: 7447-40-7

Potassium chloride 12g/l > RS - For analysis according to Ph. Eur.Chapter 2.2.25 — RS

Code	Size	Packaging	Notes
506432	10 ml	Sealed cuvette	
506433	100 ml	Glass bottle	

Potassium chloride 3.5 mol/l (3.5N)

Potassio cloruro 3.5 mol/l (3.5N) • Potassium chlorure 3.5 mol/l (3.5N) • Potasio cloruro 3.5 mol/l (3.5N)

KCl
Molecular Weight: 74,55
CAS: 7447-40-7

Potassium chloride 3.5 mol/l (3.5N) > RPE - For analysis — RPE

Code	Size	Packaging	Notes
471225	250 ml	Plastic bottle	

Content is guaranteed for standardized volumes at 20 °C

Potassium chloride 3.5 mol/l (3.5N) + silver chloride

Potassio cloruro 3.5 mol/l (3.5N) e argento cloruro • Potassium chlorure 3.5 mol/l (3.5N) avec argent chlorure • Potasio cloruro 3.5 mol/l (3.5N) con plata cloruro

KCl
Molecular Weight: 74,55
CAS: 7447-40-7

Potassium chloride 3.5 mol/l (3.5N) + silver chloride > RPE - For analysis — RPE

Code	Size	Packaging	Notes
471245	250 ml	Plastic bottle	

Content is guaranteed for standardized volumes at 20 °C

Potassium chloride 3 mol/l (3N)

Potassio cloruro 3 mol/l (3N) • Potassium chlorure 3 mol/l (3N) • Potasio cloruro 3 mol/l (3N)

KCl
Molecular Weight: 74,55
CAS: 7447-40-7

Potassium chloride 3 mol/l (3N) > RPE - For analysis — RPE

Code	Size	Packaging	Notes
471215	250 ml	Plastic bottle	

Electrolyte for the reference electrode.
Content is guaranteed for standardized volumes at 20 °C.

Potassium chloride 3 mol/l (3N) water-glycerol solution

Potassio cloruro 3 mol/l (3N) soluzione acqua-glicerina • Potassium chlorure 3 mol/l (3N) solution eau/glycérine • Potasio cloruro 3 mol/l (3N) solución agua-glicerina

KCl
Molecular Weight: 74,55
CAS: 7447-40-7

Potassium chloride 3 mol/l (3N) water-glycerol solution > RPE - For analysis

RPE

Description ..... Clear colourless liquid Identification ..... Positive Titolo (KCl) ..... 1.485 ÷ 1.515 Density at 20°C ..... 1.190 ÷ 1.210

Code	Size	Packaging	Notes
471275	250 ml	Plastic bottle	

Content is guaranteed for standardized volumes at 20 °C

Potassium chloride 3 mol/l (3N) + silver chloride

Potassio cloruro 3 mol/l (3N) e argento cloruro • Potassium chlorure 3 mol/l (3N) avec argent chlorure • Potasio cloruro 3 mol/l (3N) con plata cloruro

KCl
Molecular Weight: 74,55
CAS: 7447-40-7

Potassium chloride 3 mol/l (3N) + silver chloride > RPE - For analysis

RPE

Code	Size	Packaging	Notes
471235	250 ml	Plastic bottle	

Electrolyte for the reference electrode.
Content is guaranteed for standardized volumes at 20 °C

Potassium chloride 1 mol/l (1N)

Potassio cloruro 1 mol/l (1N) • Potassium chlorure 1 mol/l (1N) • Potasio cloruro 1 mol/l (1N)

KCl
Molecular Weight: 74,55
CAS: 7447-40-7

Potassium chloride 1 mol/l (1N) > RS - For soils analysis

RS

Assay (potentiomety) ..... 0.98 - 1.02 N

Code	Size	Packaging	Notes
PS0772/49	25 l	Plastic tank	
PS0772/79	100 l	Plastic drum	

Potassium chloride 0.1 mol/l (0.1N)

Potassio cloruro 0.1 mol/l (0.1N) • Potassium chlorure 0.1 mol/l (0.1N) • Potasio cloruro 0.1 mol/l (0.1N)

Potassium chloride 0.1 mol/l (0.1N) > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611069101	1 l	Plastic bottle	Ref Ph.Eur 1069101

Potassium chloride 0.01 mol/l (0.01N)

Potassio cloruro 0.01 mol/l (0.01N) • Potassium chlorure 0.01 mol/l (0.01N) • Potasio cloruro 0.01 mol/l (0.01N)

KCl
Molecular Weight: 74,55
CAS: 7447-40-7

Potassium chloride 0.01 mol/l (0.01N) > RPE - For analysis

RPE

Description ..... Clear colourless liquid Identification ..... Positive Titration factor ..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
471255	1 l	Plastic bottle	Potassium chloride 0.01 M

Potassium chloride saturated solution
Potassio cloruro soluzione satura • Potassium chlorure solution saturée • Potasio cloruro solución saturada

KCl
Molecular Weight: 74,55
CAS: 7447-40-7

Potassium chloride saturated solution > RPE - For analysis
RPE

Description ..... Clear colourless liquid Identification ..... Positive Density at 20° C ..... 1.169 ÷ 1.173

Code	Size	Packaging	Notes
471265	250 ml	Plastic bottle	

Electrolytic solution filling

Potassium chloride solution
Potassio cloruro soluzione • Potassium chlorure solution • Potasio cloruro solución

KCl
Molecular Weight: 74,55
CAS: 7447-40-7

Potassium chloride solution > RPE - For analysis
RPE

Description ..... Clear colourless liquid Identification ..... Positive Density at 20° C ..... 1.12 ÷ 1.14 pH at 20° C ..... 6.65 ÷ 6.75

Code	Size	Packaging	Notes
471285	250 ml	Plastic bottle	

Potassium chromate
Potassio cromato • Potassium chromate • Potasio cromato

K_2CrO_4
Molecular Weight: 194,2
CAS: 7789-00-6
EEC-N: 232-140-5

Classification transport
ONU: 3288
Transport Hazard class: 6.1
Packing group III

Danger
H315-H319-H317-H340-H350i-H335-H410-HA26
P264-P273-P271-P304+P340-P305+P351+P338-P308+P313

Potassium chromate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP
RPE

Description ..... Yellow crystals Water-insoluble matter ..... ≤50 ppm Ca ..... ≤50 ppm
Identification ..... Positive Chloride ..... ≤50 ppm Na ..... ≤200 ppm
pH sol. 5% at 25° C ..... 8.6 ÷ 9.8 Sulphate ..... ≤300 ppm Assay (oxidimetric) ..... ≥99.0 %

Code	Size	Packaging	Notes
471295	250 g	Plastic bottle	
471297	1 kg	Plastic bottle	

Potassium chromate 5% solution
Potassio cromato soluzione 5% • Potassium chromate solution 5% • Potasio cromato solución 5%

K_2CrO_4
Molecular Weight: 194,2
CAS: 7789-00-6

Classification transport
ONU: 3287
Transport Hazard class: 6.1
Packing group II

Danger
H302-H315-H319-H317-H340-H350i-H411-HA26
P264-P273-P280-P305+P351+P338-P308+P313-P330

Potassium chromate 5% solution > RS - For agroalimentary analysis
RS

Appearance ..... Conform Assay ..... 4.75 ÷ 5.25 %

Code	Size	Packaging	Notes
502681	1 l	Plastic bottle	

Composition according to NF V04-314: K2CrO4 50g water QSP 1 L. Only for the use of professionnals users

Potassium chromate 5% solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1
RS

Code	Size	Packaging	Notes
611069201	1 l	Plastic bottle	Ref Ph.Eur 1069201

Potassium chromium (III)sulfate dodecahydrate ▶ Chromium (III) potassium sulfate dodecahydrate

Potassium citrate tribasic monohydrate

Potassio citrato tribasico monoidrato • Potassium citrate tribasique monohydraté • Potasio citrato tribásico monohidrato

Synonym:
Potassium citrate tribasic monohydrate
Tripotassium citrate

$K_3C_6H_5O_7.H_2O$
Molecular Weight: 324,42
CAS: 6100-05-6
EEC-N: 212-755-5

Potassium citrate tribasic monohydrate > RPE - For analysis

RPE

Description ..... White crystalline powder
Identification ..... Positive
Reducing substances ..... Conform
Ready carbonizable substances..... Conform
pH sol. 5% at 25° C ..... 7.5 ÷ 9.5
Ammonium ..... ≤10 ppm
Chloride ..... ≤10 ppm
Water-insoluble matter ..... ≤30 ppm
Heavy metals (Pb) ..... ≤20 ppm
Oxalate ..... ≤100 ppm
Total sulphur ..... ≤50 ppm
As ..... ≤0.4 ppm
Ca ..... ≤50 ppm
Cu ..... ≤5 ppm
Fe ..... ≤5 ppm
Na ..... ≤200 ppm
Ni ..... ≤5 ppm
Pb ..... ≤10 ppm
Zn ..... ≤2 ppm
Assay (non-aqueos medium) ..... ≥99.5 %

Code	Size	Packaging	Notes
471025	250 g	Plastic bottle	
471027	1 kg	Plastic bottle	

Potassium citrate tribasic monohydrate > ERBApharm - According to pharmacopoeia : Ph.Eur.-USP-Ph. Franc.-BP

ERBApharm

Description ..... White crystalline powder
Identification ..... Positive
Appearance of solution ..... Conform Ph.Eur.
Acidity or alkalinity..... Conform Ph.Eur.
Ready carbonizable substances..... Conform Ph.Eur.
Tartrate ..... Conform USP-NF
Organic volatile impurities Conform USP-NF
Water (K.F.) ..... 4.0 ÷ 7.0 %
Loss on drying ..... 3.0 ÷ 6.0 %
Chloride ..... ≤50 ppm
Heavy metals (Pb) ..... ≤10 ppm
Oxalate ..... ≤300 ppm
Sulphate ..... ≤150 ppm
Na ..... ≤0.3 %
Assay (non-aqueos medium) . 99.0 ÷ 101.0 % s.s.

Code	Size	Packaging	Notes
359956	500 g	Plastic bottle	
359957	1 kg	Plastic bottle	
359958	2.5 kg	Plastic jar	
359959	5 kg	Plastic jar	

Potassium dichromate

Potassio bicromato • Potassium dichromate • Potasio dicromato

$K_2Cr_2O_7$
Molecular Weight: 294,19
CAS: 7778-50-9
EEC-N: 231-906-6

Classification transport
ONU: 3086
Transport Hazard class: 6.1
Packing group I

Danger
H272-H301-H312-H330-H314-H334-H317-H340-H350-H360FD-H372-H410-HA26
P210-P264-P273-P301+P330+P331-P303+P361+P353-P305+P351+P338-P342+P311a

Potassium dichromate > RPE - For analysis

RPE

Description ..... Orange crystals
Identification ..... Positive
Loss on drying at 105°C ..... ≤ 500 ppm
Water insoluble substances ..... ≤ 50 ppm
Chloride ..... ≤ 20 ppm
Sulphate ..... ≤ 100 ppm
Ca ..... ≤ 20 ppm
Fe ..... ≤ 20 ppm
Na ..... ≤ 500 ppm
Assay (oxydimetric) ..... ≥ 99.8 %

Code	Size	Packaging	Notes
470336	500 g	Plastic bottle	
470337	1 kg	Plastic bottle	

Potassium dichromate - Sulfuric acid solution

Potassio bicromato - Soluzione di acido solforico • Potassium dichromate - Solution dans l'acide sulfurique • Potasio dicromato - Solución de ácido sulfúrico

$K_2Cr_2O_7$
Molecular Weight: 194.20
CAS: 7789-00-6

HEU203

Potassium dichromate - Sulfuric acid solution > RS - For analysis according to Ph. Eur.Chapter 2.2.25

RS

Code	Size	Packaging	Notes
506442	10 ml	Sealed cuvette	conc. 60 mg/l
506452	10 ml	Sealed cuvette	conc. 600 mg/l
506443	100 ml	Glass bottle	conc. 60 mg/l
506453	100 ml	Glass bottle	conc. 600 mg/l

Potassium dichromate 0.0417 mol/l (0.25N)

Potassio bicromato 0.0417 mol/l (0.25N) • Potassium dichromate 0.0417 mol/l (0.25N) • Potasio dicromato 0.0417 mol/l (0.25N)

$K_2Cr_2O_7$
Molecular Weight: 294,19
CAS: 7778-50-9

Classification transport
ONU: 3287
Transport Hazard class: 6.1
Packing group III

Danger
H332-H315-H319-H334-H317-H340-H350-H360FD-H373-H411-HA26
P264-P273-P271-P304+P340-P305+P351+P338-P342+P311a

Potassium dichromate 0.0417 mol/l (0.25N) > RS - For environmental analysis (COD determination)

RS

Description ..... Orange clear liquid Assay (potentiometry) ..... 0.2495 - 0.2505 N

Code	Size	Packaging	Notes
470451	1 l	Glass bottle	

Content is guaranteed for standardized volumes at 20 °C

Potassium dichromate 0.04 mol/l (0.24N) in 80 g/l HgSO4

Potassio bicromato 0.04 mol/l (0.24N) in 80 g/l HgSO4 • Potassium dichromate 0.04 mol/l (0.24N) dans 80 g/l HgSO4 • Potasio dicromato 0.04 mol/l (0.24N) en 80 g/l HgSO4

$K_2Cr_2O_7$
Molecular Weight: 294,18
CAS: 7778-50-9

Classification transport
ONU: 2922
Transport Hazard class: 8
Packing group II

Danger
H302-H331-H314-H318-H334-H317-H340-H350-H360FD-H373-H411-HA26
P264-P273-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Potassium dichromate 0.04 mol/l (0.24N) in 80 g/l HgSO4 > RS - For environmental analysis (COD determination)

RS

Assay ..... 0,0398 ÷ 0,0402 mol/L

Code	Size	Packaging	Notes
526711	1 l	Glass bottle	
526712	2.5 l	Glass bottle	

Potassium dichromate 0.0167 mol/l (0.1 N)

Potassio bicromato 0.0167 mol/l (0.1 N) • Potassium dichromate 0.0167 mol/l (0.1 N) • Potasio dicromato 0.0167 mol/l (0.1 N)

$K_2Cr_2O_7$
Molecular Weight: 294,19
CAS: 7778-50-9

Danger
H340-H350-H360FD-H412-HEU203-HEU208-HA26
P273-P280-P201-P202-P308+P313-P405

Potassium dichromate 0.0167 mol/l (0.1 N) > RS - For analysis according to Ph. Eur. Chap. 4.2.2

RS

Code	Size	Packaging	Notes
613004600	1 l	Plastic bottle	Ref Ph.Eur 3004600

Potassium dichromate 0.0167 mol/l (0.1 N) > RPE - For analysis

RPE

Assay (potentiomety) ..... 0.0998 - 0.1002 N

Code	Size	Packaging	Notes
P3350016	1 l	Glass bottle	

Potassium dichromate 0.0167 mol/l (0.1 N) > RPE - NORMEX - For analysis

RPE

Description ..... Orange clear liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
470501		Glass ampoule	Volume : 60 ml

Volumetric concentrated solution to prepare 1 L of solution 0,1 N

Potassium dichromate solution 0.5%

Potassio bicromato soluzione 0.5% • Potassium dichromate solution 0.5% • Potasio dicromato solución 0.5%

$K_2Cr_2O_7$
Molecular Weight: 294,19
CAS: 7778-50-9

Potassium dichromate solution 0.5% > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611069509	100 ml	Plastic bottle	Potassium dichromate solution R1 Ref Ph.Eur 1069502
611069502	1 l	Plastic bottle	Potassium dichromate solution R1 Ref Ph.Eur 1069502

Potassium dichromate solution 106 g/l

Potassio bicromato soluzione 106 g/l • Potassium dichromate solution 106g/l • Potasio dicromato solución 106 g/l

$K_2Cr_2O_7$
Molecular Weight: 294,18
CAS: 7778-50-9

Classification transport
ONU: 1935
Transport Hazard class: 6.1
Packing group I

Danger
H302-H331-H314-H318-H334-H317-H340-H350-H360FD-H335-H372-H411-HA26
P264-P273-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Potassium dichromate solution 106 g/l > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611069501	1 l	Plastic bottle	Ref Ph.Eur 1069501

Potassium dichromate 0.2829 g/l

Potassio bicromato 0.2829 g/l • Potassium dichromate 0.2829 g/l • Potassio dicromato 0.2829 g/l

$K_2Cr_2O_7$
Molecular Weight: 294.18
CAS: 7778-50-9

HEU203

Potassium dichromate 0.2829 g/l > RS - For analysis

RS

Code	Size	Packaging	Notes
504582	1 l	Plastic bottle	

Potassium dichromate 0.1414 g/l

Potassio bicromato 0.1414 g/l • Potassium dichromate 0.1414 g/l • Potassio dicromato 0.1414 g/l

$K_2Cr_2O_7$
Molecular Weight: 294.18
CAS: 7778-50-9

HEU203

Potassium dichromate 0.1414 g/l > RS - For analysis

RS

Code	Size	Packaging	Notes
504594	1 l	Plastic bottle	

Potassium dihydrogen phosphate ▶ Potassium phosphate monobasic

Potassium disulfate ▶ Potassium pyrosulphate

Potassium ferricyanide

Potassio ferricianuro • Potassium ferricyanure • Potasio ferricianuro

Synonym:
Potassium ferricyanide(III)
Red prussiate

$K_3Fe(CN)_6$ HEU032
Molecular Weight: 329,26
CAS: 13746-66-2
EEC-N: 237-323-3

Potassium ferricyanide > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description ..... Red orange crystals
Identification ..... Positive
Water-insoluble matter .....≤50 ppm
Chloride.....≤100 ppm
Ferrocyanide.....≤500 ppm
Sulphate.....≤100 ppm
Assay (oxidimetric) ..... ≥99.0 %

Code	Size	Packaging	Notes
471364	100 g	Plastic bottle	
471365	250 g	Plastic bottle	
471367	1 kg	Plastic bottle	

Potassium ferricyanide > RE - Pure

RE

Description .....Red orange crystals
Identification ..... Positive
Chloride.....≤0.2 %
Ferrocyanide.....≤0.5 %
Sulphate.....≤500 ppm
Assay (oxidimetric) .....≥98 %

Code	Size	Packaging	Notes
360257	1 kg	Plastic bottle	
360258	5 kg	Plastic jar	
360252	25 kg	Plastic bucket	

Potassium ferricyanide solution 11%

Potassio ferricianuro soluzione 11% • Potassium ferricyanure solution 11% • Potasio ferricianuro solución 11%

Synonym:
Potassium ferricyanide(III)
Red prussiate

$K_3Fe(CN)_6$ HEU032
Molecular Weight: 329,26
CAS: 13746-66-2

Potassium ferricyanide solution 11% > RPE - For analysis

RPE

Description .....Liq.limp giallo verdogn
Identification ..... Positive
Density at 20° C .....≥1.06

Code	Size	Packaging	Notes
E471431	1 l	Bottle	

Potassium ferrocyanide trihydrate

Potassio ferrocianuro triidrato • Potassium ferrocyanure trihydraté • Potasio ferrocianuro trihidrato

Synonym:
Potassium hexacyanoferrate(II) trihydrate
Yellow prussiate

$K_4Fe(CN)_6.3H_2O$ HEU032
Molecular Weight: 422,41
CAS: 14459-95-1

Potassium ferrocyanide trihydrate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description ..... Yellow crystals
Identification ..... Positive
Chloride.....≤100 ppm
Water-insoluble matter .....≤50 ppm
Sulphate.....Conform ACS
Assay (oxidimetric) .....98.5 ÷ 102.0 %

Code	Size	Packaging	Notes
471484	100 g	Plastic bottle	
471485	250 g	Plastic bottle	
471487	1 kg	Plastic bottle	
471488	2.5 kg	Plastic bottle	
471483	25 kg	Drum	

Potassium ferrocyanide trihydrate > RE - Pure

RE

Description ..... Yellow crystals | Identification ..... Positive | Water-insoluble matter ..... ≤ 0.1 % | Assay (oxidimetric) ..... ≥ 98 %

Code	Size	Packaging	Notes
360557	1 kg	Plastic bottle	
360558	5 kg	Plastic jar	
360552	25 kg	Plastic bucket	

Potassium ferrocyanide solution 10%

Potassio ferrocianuro soluzione 10% • Potassium ferrocyanure solution 10% • Potasio ferrocianuro solución 10%

$K_4Fe(CN)_6.3H_2O$
Molecular Weight: 422,41
CAS: 14459-95-1

Potassium ferrocyanide solution 10% > RPE - For analysis

RPE

Description ..... Yellow clear liquid | Identification ..... Positive | Density at 20° C ..... ≥1.06 | Assay (oxidimetric) ..... 9.5 ÷ 10.5 %

Code	Size	Packaging	Notes
E471501	1 l	Glass bottle	

Potassium ferrocyanide solution 53 g/l

Potassio ferricianuro soluzione 53 g/l • Potassium ferrocyanure solution 53 g/l • Potasio ferrocianuro solución 53 g/l

$K_4Fe(CN)_6.3H_2O$
Molecular Weight: 422,41
CAS: 14459-95-1

Potassium ferrocyanide solution 53 g/l > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611069801	100 ml	Plastic bottle	Ref Ph.Eur 1069801

Potassium fluoride

Potassio fluoruro • Potassium fluorure • Potasio fluoruro

KF
Molecular Weight: 58,1
CAS: 7789-23-3
EEC-N: 232-151-5

Classification transport
ONU: 1812
Transport Hazard class: 6.1
Packing group III

Danger
H301-H311-H331
P264-P271-P304+P340-P301+P310a-P312a-P330

Potassium fluoride > RPE - For analysis

RPE

Description ..... White powder
Identification ..... Positive
Acidity (Hydrofluor ac) ..... ≤0.1 %
Alkalinity (KOH) ..... ≤0.1 %
Water not sol. matter ..... ≤0.01 %
Chloride ..... ≤0.05 %
Fluosilicates ..... ≤0.05 %
Sulphate ..... ≤100 ppm
Sulphite ..... ≤100 ppm
Heavy metals (Pb) ..... ≤20 ppm
Cu ..... ≤20 ppm
Fe ..... ≤10 ppm
Ni ..... ≤20 ppm
Pb ..... ≤20 ppm
Zn ..... ≤20 ppm
Assay (non-aqueos medium) ..... ≥98.0 %

Code	Size	Packaging	Notes
471564	100 g	Plastic bottle	
471561	250 g	Plastic bottle	
471562	1 kg	Plastic bottle	
471563	10 kg	Plastic bucket	

Potassium fluoride dihydrate
Potassio fluoruro biidrato • Potassium fluorure dihydraté • Potasio fluoruro dihidrato

$KF.2H_2O$
Molecular Weight: 94,13
CAS: 13455-21-5
EEC-N: 232-151-5

Classification transport
ONU: 1812
Transport Hazard class: 6.1
Packing group III

Danger
H301-H311-H331
P264-P271-P304+P340-P301+P310a-P312a-P330

Potassium fluoride dihydrate > RPE - For analysis
RPE

Description ..... White crystals
Identification ..... Positive
Assay ..... ≥ 98.5 %

Code	Size	Packaging	Notes
471555	250 g	Plastic bottle	

Potassium fluorotitanate
Potassio fluorotitanato • Potassium fluorotitanate • Potasio fluorotitanato

Synonym:
Dipotassium hexafluorotitanate
Titanium potassium hexafluoride

K_2TiF_6
Molecular Weight: 240,09
CAS: 16919-27-0
EEC-N: 240-969-9

Danger
H301-H335
P264-P271-P304+P340-P301+P310a-P312a-P330

Potassium fluorotitanate > RPE - For analysis
RPE

Description ..... White crystalline powder
Identification ..... Positive
Ammonium ..... ≤20 ppm
Chloride ..... ≤200 ppm
Phosphate ..... ≤200 ppm
Heavy metals (Pb) ..... ≤50 ppm
Sulphate ..... ≤50 ppm
Fe ..... ≤100 ppm
Assay (gravimetric) ..... 99 ÷ 100 %

Code	Size	Packaging	Notes
471584	100 g	Glass bottle	

Potassium guaiacolsulfonate
Potassio solfoguaiacolato • Potassium sulfogaïacolate • Potasio sulfoguayacolato

$C_7H_7KO_5S$
Molecular Weight: 242,29
CAS: 1321-14-8
EEC-N: 215-314-5

Potassium guaiacolsulfonate > RE - Pure
RE

Description ..... White crystalline powder
Identification ..... Positive
Water (K.F.) ..... ≤6.0 %
Guaiacol (TLC) ..... ≤0.5 %
Heavy metals (Pb) ..... ≤20 ppm
Sulphate ..... ≤200 ppm
Assay (non-aqueos medium) ..... ≥95.5 %

Code	Size	Packaging	Notes
363807	1 kg	Plastic bottle	

di-Potassium hexachloroplatinate
di-Potassio esacloroplatinato • Potassium chloroplatinate • Di-Potasio hexacloroplatinato

Synonym:
Potassium hexachloroplatinate(IV)

K_2PtCl_6
Molecular Weight: 486,01
CAS: 16921-30-5
EEC-N: 240-979-3

Classification transport
ONU: 3290
Transport Hazard class: 6.1
Packing group II

Danger
H301-H318-H334-H317
P264-P284-P304+P340-P305+P351+P338-P342+P311a-P301+P310a

di-Potassium hexachloroplatinate > RPE - For analysis
RPE

Description ..... Yellow powder
Identification ..... Positive
Ag ..... ≤ 20 ppm
Au ..... ≤ 20 ppm
Ca ..... ≤ 20 ppm
Cu ..... ≤ 10 ppm
Fe ..... ≤ 20 ppm
Ir ..... ≤ 20 ppm
Mg ..... ≤ 20 ppm
Pd ..... ≤ 20 ppm
Pb ..... ≤ 20 ppm
Rh ..... ≤ 20 ppm
Ru ..... ≤ 20 ppm
Si ..... ≤ 20 ppm
Assay (gravimetric) ..... 40 ÷ 40.2 % Pt

Code	Size	Packaging	Notes
471127	1 g	Glass ampoule	

Potassium hexacyanoferrate(II) trihydrate ▶ Potassium ferrocyanide trihydrate

Potassium hydrogen carbonate ▶ Potassium bicarbonate

Potassium hydrogen iodate

Potassio iodato acido • Potassium iodate acide • Potasio yodato acido

Synonym:
Potassium biiodate

$KIO_3.HIO_3$
Molecular Weight: 389,92
CAS: 13455-24-8
EEC-N: 236-650-9

Classification transport
ONU: 3085
Transport Hazard class: 5.1
Packing group II

Danger
H272-H314
P221-P264-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Potassium hydrogen iodate > RPE - For analysis

RPE

Description ..... White crystalline powder
Identification ..... Positive
Water-insoluble matter .....≤500 ppm
Br-BrO3-Cl-ClO3 (Cl) .....≤500 ppm
Sulphate .....≤100 ppm
Cu .....≤20 ppm
Fe .....≤20 ppm
Ni .....≤20 ppm
Pb .....≤20 ppm
Assay (oxidimetric) ..... ≥99 %

Code	Size	Packaging	Notes
472641	50 g	Glass bottle	

di-Potassium hydrogen phosphate ▶ Potassium phosphate dibasic anhydrous

di-Potassium hydrogen phosphate trihydrate ▶ Potassium phosphate dibasic trihydrate

Potassium hydrogen phthalate

Potassio ftalato acido • Potassium phtalate acide • Potasio ftalato acido

Synonym:
Phtalic acid monopotassium salt
Potassium biphtalate

$HOOCC_6H_4COOK$
Molecular Weight: 204,23
CAS: 877-24-7
EEC-N: 212-889-4

Potassium hydrogen phthalate > RS - For analysis according to Ph. Eur. Chap. 4.2.1

RS

Code	Size	Packaging	Notes
612000400	50 g	Plastic bottle	Ref Ph.Eur 2000400

Potassium hydrogen phthalate > RS - For volumetry and pHmetry

RS

Description .....White crystals
Identification ..... Positive
pH sol. M/20 at 25° C .....4.001 ÷ 4.011
Assay ..... ≥ 99.5 %

Code	Size	Packaging	Notes
471913	25 g	Glass bottle	

Potassium hydrogen phthalate > RPE - For analysis

RPE

Description .....White crystals
Identification ..... Positive
Loss on drying (110°C).....≤500 ppm
Total nitrogen.....≤10 ppm
Chloride.....≤20 ppm
Water-insoluble matter .....≤30 ppm
Heavy metals (Pb).....≤5 ppm
Total sulphur .....≤20 ppm
Ca.....≤10 ppm
Cd.....≤5 ppm
Co.....≤5 ppm
Cr.....≤10 ppm
Cu.....≤5 ppm
Fe .....≤5 ppm
Mg .....≤10 ppm
Mn .....≤5 ppm
Na.....≤100 ppm
Ni.....≤5 ppm
Pb .....≤5 ppm
Zn .....≤5 ppm
Assay (acidimetric) ..... ≥99.5 %

Code	Size	Packaging	Notes
471865	250 g	Plastic bottle	
471866	1 kg	Plastic bottle	
471867	2.5 kg	Plastic jar	

Potassium hydrogen phthalate 0.2 mol/l (0.2N)

Potassio ftalato acido 0.2 mol/l (0.2N) • Potassium phtalate acide 0.2 mol/l (0.2N) • Potasio ftalato acido 0.2 mol/l (0.2N)

Synonym:
Phtalic acid monopotassium salt
Potassium biphtalate

$HOOCC_6H_4COOK$
Molecular Weight: 204,23
CAS: 877-24-7

Potassium hydrogen phthalate 0.2 mol/l (0.2N) > RS - For analysis according to Ph. Eur. Chap. 4.1.1 — RS

Code	Size	Packaging	Notes
611070001	1 l	Plastic bottle	Ref Ph.Eur 1070001

Potassium hydrogen phthalate 0.1 mol/l (0.1N)

Potassio ftalato acido 0.1 mol/l (0.1N) • Potassium phtalate acide 0.1 mol/l (0.1N) • Potasio ftalato acido 0.1 mol/l (0.1N)

Synonym:
Phtalic acid monopotassium salt
Potassium biphtalate

$HOOCC_6H_4COOK$
Molecular Weight: 204,23
CAS: 877-24-7

Classification transport
ONU: 2789
Transport Hazard class: 8
Packing group II

Danger
H226-H314-H318
P210-P241-P264-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

Potassium hydrogen phthalate 0.1 mol/l (0.1N) > RPE - For analysis — RPE

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
E471926	500 ml	Bottle	

Ready-to-use solution in acetic anhydride : 0.1N

Potassium hydrogen sulfate ▶ Potassium bisulfate

Potassium hydroxide, flakes

Potassio idrossido, scaglie • Potassium hydroxyde, écailles • Potasio hidróxido, escamas

Synonym:
Caustic potash

KOH
Molecular Weight: 56,1
CAS: 1310-58-3
EEC-N: 215-181-3

Classification transport
ONU: 1813
Transport Hazard class: 8
Packing group II

Danger
H290-H302-H314
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Potassium hydroxide, flakes > ERBApharm - According to pharmacopoeia : BP-Ph.Eur. — ERBApharm

Description ..... White flakes
Identification ..... Positive
Appearance of solution .....Conform Ph.Eur.
Carbonate..... ≤ 2.0 %
Chloride..... ≤ 200 ppm
Phosphate ..... ≤ 100 ppm
Heavy metals (Pb)..... ≤ 10 ppm
Sulphate ..... ≤ 200 ppm
Fe ..... ≤ 10 ppm
Na..... ≤ 1.0 %
Assay (total alkalin.)..... 85.0 ÷ 100.5 %

Code	Size	Packaging	Notes
362201	25 kg	Sack	

Potassium hydroxide, flakes > RE - Pure — RE

Description ..... White flakes
Identification ..... Positive
Chloride..... ≤ 80 ppm
Potassio carbonato..... ≤ 1 %
Na (NaOH)..... ≤ 0.9 %
Sulphate ..... ≤ 20 ppm
Assay (acidimetric) ..... ≥ 85 %

Code	Size	Packaging	Notes
362257	1 kg	Plastic bottle	
362258	5 kg	Plastic jar	
362251	25 kg	Sack	

Potassium hydroxide, pellets

Potassio idrossido, gocce • Potassium hydroxyde, pastilles • Potasio hidróxido, gotas

Synonym:
Caustic potash

KOH
Molecular Weight: 56,1
CAS: 1310-58-3
EEC-N: 215-181-3

Classification transport
ONU: 1813
Transport Hazard class: 8
Packing group II

Danger
H290-H302-H314
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Potassium hydroxide, pellets > RS - RSE - For electronic use

RS

Description	White pellets	Heavy metals (Pb)	≤2 ppm	Cu	≤0.5 ppm	Ni	≤1 ppm
Identification	Positive	Silicate	≤15 ppm	Fe	≤5 ppm	Pb	≤1 ppm
Total nitrogen	≤3 ppm	Sulphate	≤5 ppm	Hg	≤0.1 ppm	Zn	≤1 ppm
Carbonate	≤5000 ppm	As	≤0.5 ppm	Mg	≤5 ppm	Assay (alkalimetric)	≥86 %
Chloride	≤10 ppm	Ca	≤5 ppm	Mn	≤0.1 ppm		
Phosphate	≤5 ppm	Cd	≤0.1 ppm	Na	≤300 ppm		

Code	Size	Packaging	Notes
472097	1 kg	Plastic bottle	

Potassium hydroxide, pellets > RS - For microanalysis

RS

Description ..... White pellets Identification ..... Positive

Code	Size	Packaging	Notes
472086	500 g	Plastic bottle	

Potassium hydroxide, pellets > RPE - For analysis - ACS - ISO

RPE

Description	White pellets	Carbonate	≤ 2.0 %	Heavy metals (Ag)	≤ 10 ppm	Assay (alkalimetric)	≥ 85 %
Identification	Positive	Chloride	≤ 100 ppm	Fe	≤ 10 ppm	Mg	≤ 20 ppm
Ca	≤ 50 ppm	Phosphate	≤ 5 ppm	Na	≤ 500 ppm		
Total nitrogen	≤ 10 ppm	Sulphate	≤ 30 ppm	Ni	≤ 10 ppm		

Code	Size	Packaging	Notes
472171	100 g	Plastic bottle	
472172	500 g	Plastic bottle	
472173	1 kg	Plastic bottle	
472175	5 kg	Plastic jar	

Low content in sodium

Potassium hydroxide, pellets > RPE - For analysis

RPE

Description	White pellets	Water-insoluble matter	≤50 ppm	Al	≤10 ppm	Ni	≤3 ppm
Identification	Positive	Heavy metals (Pb)	≤5 ppm	As	≤1 ppm	Pb	≤1 ppm
Total nitrogen	≤5 ppm	Subst. ppt by NH4OH	≤100 ppm	Ca	≤10 ppm	Zn	≤5 ppm
Carbonate	≤0.6 %	Silicate	≤5 ppm	Cu	≤5 ppm	Assay (alkalimetric)	≥85 %
Chloride	≤10 ppm	Sulphate	≤10 ppm	Fe	≤5 ppm		
Phosphate	≤4 ppm	Ag	≤0.5 ppm	Mg	≤5 ppm		

Code	Size	Packaging	Notes
472057	1 kg	Plastic bottle	
472059	5 kg	Plastic jar	
472056	25 kg	Plastic bucket	

Potassium hydroxide, pellets > ERBApharm - According to pharmacopoeia : FU-Ph.Eur.

ERBApharm

Description	White pellets	Na	≤1.0 %	Phosphate	≤100 ppm	Fe	≤10 ppm
Identification	Positive	Carbonate	≤2.0 %	Heavy metals (Pb)	≤10 ppm	Titolo (alcalinità totale)	85.0 ÷ 100.5 %
Appearance of solution	Conform Ph.Eur.	Chloride	≤200 ppm	Sulphate	≤200 ppm		

Code	Size	Packaging	Notes
362237	1 kg	Plastic bottle	
362239	5 kg	Plastic jar	
362235	25 kg	Sack	

Potassium hydroxide solution 45%

Potassio idrossido soluzione 45% • Potassium hydroxyde solution 45% • Potasio hidróxido solución 45%

Synonym: *Caustic potash*

KOH
Molecular Weight: 56,1
CAS: 1310-58-3

Classification transport
ONU: 1814
Transport Hazard class: 8
Packing group II

Danger
H302-H314
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Potassium hydroxide solution 45% > RS - RSE - For electronic use

RS

Description ..... Clear liquid	Ni ..... ≤ 1 ppm	Sulphate ..... ≤ 3 ppm	Cd ..... ≤ 0.05 ppm
Colour (APHA) ..... ≤ 20	Assay (acidimetric) ..... 45.0 ÷ 46.0 %	Silicate ..... ≤ 10 ppm	Mg ..... ≤ 3 ppm
Carbonate ..... ≤ 1.0 %	Subst. ppt by NH4OH ..... ≤ 50 ppm	Heavy metals (Pb) ..... ≤ 3 ppm	Mn ..... ≤ 0.5 ppm
Cr ..... ≤ 1 ppm	Total nitrogen ..... ≤ 0.5 ppm	Al ..... ≤ 1 ppm	Hg ..... ≤ 0.05 ppm
Cu ..... ≤ 0.5 ppm	Chloride ..... ≤ 5 ppm	As ..... ≤ 0.5 ppm	Pb ..... ≤ 1 ppm
Fe ..... ≤ 1 ppm	Phosphate ..... ≤ 3 ppm	Ca ..... ≤ 3 ppm	Zn ..... ≤ 1 ppm

Code	Size	Packaging	Notes
472103	5 l	Plastic bottle	

Potassium hydroxide solution 38% (40° Bé) in water

Potassio idrossido soluzione 38% (40° Bé) in acqua • Potassium hydroxyde 38% (40°Bé) • Potasio hidróxido solución 38% (40° Bé) en agua

Synonym: *Caustic potash*

KOH
Molecular Weight: 56,1
CAS: 1310-58-3

Classification transport
ONU: 1814
Transport Hazard class: 8
Packing group II

Danger
H302-H314
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Potassium hydroxide solution 38% (40° Bé) in water > RPE - For analysis

RPE

Description ..... Clear colourless liquid	Nitrogen compounds (N) ..... ≤10 ppm	Subst. ppt by NH4OH ..... ≤200 ppm	Fe ..... ≤5 ppm
Carbonate ..... ≤1.5 %	Phosphate ..... ≤10 ppm	Silicate ..... ≤100 ppm	Assay ..... 38 - 40 %
Chloride ..... ≤40 ppm	Heavy metals (Pb) ..... ≤20 ppm	Sulphate ..... ≤20 ppm	

Code	Size	Packaging	Notes
E472151	1 l	Plastic bottle	
E472152	35 kg	Plastic drum	

Potassium hydroxide solution 28%

Potassio idrossido soluzione 28% • Potassium hydroxyde 28% • Potasio hidróxido solución 28%

Synonym: *Caustic potash*

KOH
Molecular Weight: 56,1
CAS: 1310-58-3

Classification transport
ONU: 1814
Transport Hazard class: 8
Packing group II

Danger
H302-H314
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Potassium hydroxide solution 28% > RS - For gas analysis according to Orsat

RS

Description ..... Clear colourless liquid	Identification ..... Positive	Density at 20° C ..... ~ 1.27	Assay (alkalimetric) ..... 27 ÷ 29 %

Code	Size	Packaging	Notes
E472221	1 l	Plastic bottle	

Potassium hydroxide solution 3% in ethanol

Potassio idrossido soluzione 3% in etanolo • Potassium hydroxyde solution 3% dans l'ethanol • Potasio hidróxido solución 3% en etanol

Synonym: *Caustic potash*

KOH
Molecular Weight: 56,1
CAS: 1310-58-3

Classification transport
ONU: 2920

Potassium hydroxide solution 3% in ethanol > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611070303	100 ml	Glass bottle	Ref Ph.Eur 1070303

Potassium hydroxide 2 mol/l (2N) in ethanol

Potassio idrossido 2 mol/l (2N) in etanolo • Potassium hydroxyde 2 mol/l (2N) dans l'ethanol • Potasio hidróxido 2 mol/l (2N) en etanol

Synonym: *Caustic potash*

KOH
Molecular Weight: 56,1
CAS: 1310-58-3

Classification transport
ONU: 2733
Transport Hazard class: 3
Packing group II

Danger
H225-H314-H318
P210-P241-P264-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

Potassium hydroxide 2 mol/l (2N) in ethanol > RS - For analysis according to Ph. Eur. Chap. 4.1.1 — RS

Code	Size	Packaging	Notes
611070301	100 ml	Plastic bottle	Ref Ph.Eur 1070301

Potassium hydroxide 1 mol/l (1N)

Potassio idrossido 1 mol/l (1N) • Potassium hydroxyde 1 mol/l (1N) • Potasio hidróxido 1 mol/l (1N)

Synonym: *Caustic potash*

KOH
Molecular Weight: 56,1
CAS: 1310-58-3

Classification transport
ONU: 1814
Transport Hazard class: 8
Packing group II

Danger
H302-H314-H318
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Potassium hydroxide 1 mol/l (1N) > RS - For analysis according to Ph. Eur. Chap. 4.2.2 — RS

Code	Size	Packaging	Notes
613009100	1 l	Plastic bottle	Ref Ph.Eur 3009100

Potassium hydroxide 1 mol/l (1N) > RPE - For analysis — RPE

Description ..... Clear colourless liquid Assay (potentiometry) ..... 0.999 - 1.001 N NIST 84 I

Code	Size	Packaging	Notes
472287000	1 l	Plastic bottle	
472282000	5 l	Kubidos	
472281000	10 l	Kubidos	

56.11 g of KOH. Volumetric solution ready-to-use : 1N. Traceable to NIST. Content is guaranteed for standardized volumes at 20°C. Keep tightly closed

Potassium hydroxide 1 mol/l (1N) > RPE - NORMEX - For analysis — RPE

Description ..... Clear colourless liquid Identification ..... Positive Titration factor ..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
472311		Plastic ampoule	Volume : 165 ml

56,11 g of KOH. Volumetric concentrated solution to prepare 1 L of solution 1 N

Potassium hydroxide 0.5 mol/l (0.5N)

Potassio idrossido 0.5 mol/l (0.5N) • Potassium hydroxyde 0.5 mol/l (0.5N) • Potasio hidróxido 0.5 mol/l (0.5N)

Synonym: *Caustic potash*

KOH
Molecular Weight: 56,1
CAS: 1310-58-3

Classification transport
ONU: 1814
Transport Hazard class: 8
Packing group II

Danger
H302-H314-H318
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Potassium hydroxide 0.5 mol/l (0.5N) > RPE - For analysis — RPE

Description ..... Clear colourless liquid Assay (potentiometry) ..... 0.4995 - 0.5005 N NIST 84 I

Code	Size	Packaging	Notes
472337000	1 l	Plastic bottle	
472332000	5 l	Kubidos	
472331000	10 l	Kubidos	

28.055 g of KOH. Volumetric solution ready-to-use : 0.5N. Traceable to NIST

Potassium hydroxide 0.5 mol/l (0.5N) > RPE - NORMEX - For analysis

RPE

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
472391		Plastic ampoule	Volume : 55 ml

28,055 g of KOH. Volumetric concentrated solution to prepare 1 L of solution 0,5 N

Potassium hydroxide 0.5 mol/l (0.5N) in ethanol

Potassio idrossido 0.5 mol/l (0.5N) in alcole etilico • Potassium hydroxyde 0.5 mol/l (0.5N) dans l'éthanol • Potassium hydroxide 0.5 mol/l (0.5N) in ethanol

Synonym:
Caustic potash

KOH
Molecular Weight: 56,1
CAS: 1310-58-3

Classification transport
ONU: 2924
Transport Hazard class: 3
Packing group II

Danger
H225-H314
P210-P241-P264-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

Potassium hydroxide 0.5 mol/l (0.5N) in ethanol > RS - For analysis according to Ph. Eur. Chap. 4.2.2

RS

Code	Size	Packaging	Notes
613004900	1 l	Glass bottle	Ref Ph.Eur 3004900

Potassium hydroxide 0.5 mol/l (0.5N) in ethanol > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611070302	1 l	Glass bottle	Ref Ph.Eur 1070302

Potassium hydroxide 0.5 mol/l (0.5N) in ethanol > RPE - For analysis

RPE

Description ..... Colourless to light yellow liquid Assay (potentiometry) ..... 0.499 - 0.501 N NIST 84 I

Code	Size	Packaging	Notes
472021000	1 l	Plastic bottle	
472022000	1 l	Glass bottle	

28.055 g of KOH. Volumetric solution ready-to-use : 0.5N. Traceable to NIST

Potassium hydroxide 0.5 mol/l (0.5N) in methanol

Potassio idrossido 0.5 mol/l (0.5N) in alcole metilico • Potassium hydroxyde 0.5 mol/l (0.5N) dans le méthanol • Potasio hidróxido 0.5 mol/l (0.5N) en metanol

Synonym:
Caustic potash

KOH
Molecular Weight: 56,1
CAS: 1310-58-3

Classification transport
ONU: 3286
Transport Hazard class: 3
Packing group II

Danger
H225-H301-H331-H314-H370
P210-P241-P264-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

Potassium hydroxide 0.5 mol/l (0.5N) in methanol > RPE - For analysis

RPE

Description ..... Clear colourless liquid Assay (potentiometry) ..... 0.499 - 0.501 N NIST 84 I

Code	Size	Packaging	Notes
472366000	500 ml	Glass bottle	
472364000	1 l	Glass bottle	
472367000	5 l	Plastic tank	

28.055 g of KOH. Volumetric solution ready-to-use : 0.5N. Traceable to NIST

Potassium hydroxide 0.46 mol/l (0.46N)

Potassio idrossido 0.46 mol/l (0.46N) • Potassium hydroxyde 0.46 mol/l (0.46N) • Potasio hidróxido 0.46 mol/l (0.46N)

Synonym: *Caustic potash*

KOH
Molecular Weight: 56,1
CAS: 1310-58-3

Classification transport
ONU: 1814
Transport Hazard class: 8
Packing group II

Danger
H302-H314-H318
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Potassium hydroxide 0.46 mol/l (0.46N) > RS - For agroalimentary analysis

RS

Description ..... Clear colourless liquid Colour ..... ≤ 10 APHA Assay ..... 0.455 ÷ 0.465 N

Code	Size	Packaging	Notes
502212	5 l	Plastic tank	

Potassium hydroxide 0.25 mol/l (0.25N)

Potassio idrossido 0.25 mol/l (0.25N) • Potassium hydroxyde 0.25 mol/l (0.25N) • Potasio hidróxido 0.25 mol/l (0.25N)

Synonym: *Caustic potash*

KOH
Molecular Weight: 56,1
CAS: 1310-58-3

Classification transport
ONU: 1814
Transport Hazard class: 8
Packing group III

Warning
H315-H319
P280-P264-P305+P351+P338-P362-P332+P313-P337+P313

Potassium hydroxide 0.25 mol/l (0.25N) > RPE - For analysis

RPE

Description ..... Clear colourless liquid Assay (potentiometry) ..... 0.2498 - 0.2503 N NIST 84 I

Code	Size	Packaging	Notes
472427000	1 l	Plastic bottle	
472422000	5 l	Kubidos	
472421000	10 l	Kubidos	

14.027 g of KOH. Volumetric solution ready-to-use : 0.25N. Traceable to NIST

Potassium hydroxide 0.23 mol/l (0.23N)

Potassio idrossido 0.23 mol/l (0.23N) • Potassium hydroxyde 0.23 mol/l (0.23N) • Potasio hidróxido 0.23 mol/l (0.23N)

Synonym: *Caustic potash*

KOH
Molecular Weight: 56,1
CAS: 1310-58-3

Classification transport
ONU: 1814
Transport Hazard class: 8
Packing group III

Warning
H315-H319
P280-P264-P305+P351+P338-P362-P332+P313-P337+P313

Potassium hydroxide 0.23 mol/l (0.23N) > RS - For agroalimentary analysis

RS

Description ..... Clear colourless liquid Assay ..... 0.225 ÷ 0.235 N Colour ..... ≤ 10 APHA

Code	Size	Packaging	Notes
502092	5 l	Plastic tank	

Potassium hydroxide 0.1 mol/l (0.1N)

Potassio idrossido 0.1 mol/l (0.1N) • Potassium hydroxyde 0.1 mol/l (0.1N) • Potasio hidróxido 0.1 mol/l (0.1N)

Synonym: *Caustic potash*

KOH
Molecular Weight: 56,1
CAS: 1310-58-3

Classification transport
ONU: 1814
Transport Hazard class: 8
Packing group III

Warning
H315-H319
P280-P264-P305+P351+P338-P362-P332+P313-P337+P313

Potassium hydroxide 0.1 mol/l (0.1N) > RS - For analysis according to Ph. Eur. Chap. 4.2.2

RS

Code	Size	Packaging	Notes
613004800	1 l	Plastic bottle	Ref Ph.Eur 3004800

Potassium hydroxide 0.1 mol/l (0.1N) > RPE - For analysis

RPE

Description ..... Clear colourless liquid Assay (potentiometry) ..... 0.0999 - 0.1001 N NIST 84 I

Code	Size	Packaging	Notes
472457000	1 l	Plastic bottle	
472452000	5 l	Kubidos	
472451000	10 l	Kubidos	

5.61 g of KOH. Volumetric solution ready-to-use : 0.1N. Traceable to NIST

Potassium hydroxide 0.1 mol/l (0.1N) > RPE - NORMEX - For analysis

RPE

Description ..... Clear colourless liquid Identification ..... Positive Titration factor ..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
472511		Plastic ampoule	Volume : 55 ml

5,611 g KOH. Volumetric concentrated solution to prepare 1 L of solution 0,1 N

Potassium hydroxide 0.1 mol/l (0.1N) in methanol

Potassio idrossido 0.1 mol/l (0.1N) in alcole metilico • Potassium hydroxyde 0.1 mol/l (0.1N) dans le méthanol • Potasio hidróxido 0.1 mol/l (0.1N) en metanol

Synonym: *Caustic potash*

KOH
Molecular Weight: 56,1
CAS: 1310-58-3

Classification transport
ONU: 3286
Transport Hazard class: 3
Packing group II

Danger
H225-H301-H311-H331-H370-H315-H319
P210-P241-P304+P340-P305+P351+P338-P307+P311-P403+P235-P405-P501a

Potassium hydroxide 0.1 mol/l (0.1N) in methanol > RPE - For analysis

RPE

Description ..... Clear colourless liquid Assay (potentiometry) ..... 0.0998 - 0.1002 N NIST 84 I

Code	Size	Packaging	Notes
472486000	500 ml	Glass bottle	
472484000	1 l	Glass bottle	

5.61 g of KOH. Volumetric solution ready-to-use : 0.1N. Traceable to NIST

Potassium hydroxide 0.1 mol/l (0.1N) in ethanol

Potassio idrossido 0.1 mol/l (0.1N) in alcole etilico • Potassium hydroxyde 0.1 mol/l (0.1N) dans l'ethanol • Potasio hidróxido 0.1 mol/l (0.1N) en etanol

Synonym: *Caustic potash*

KOH
Molecular Weight: 56,1
CAS: 1310-58-3

Classification transport
ONU: 2924
Transport Hazard class: 3
Packing group II

Danger
H225-H315-H319
P210-P241-P303+P361+P353-P305+P351+P338-P403+P235-P501a

Potassium hydroxide 0.1 mol/l (0.1N) in ethanol > RS - For analysis according to Ph. Eur. Chap. 4.2.2

RS

Code	Size	Packaging	Notes
613005100	1 l	Glass bottle	Ref Ph.Eur 3005100

Potassium hydroxide 0.1 mol/l (0.1N) in ethanol > RPE - For analysis

RPE

Description ..... Clear colourless liquid Assay (potentiometry) ..... 0.0998 - 0.1002 N NIST 84 I

Code	Size	Packaging	Notes
472041000	1 l	Glass bottle	
472042000	1 l	Plastic bottle	

5.61 g of KOH. Volumetric solution ready-to-use : 0.1N. Traceable to NIST

Potassium Iodate
Potassio iodato • Potassium iodate • Potasio yodato

KIO_3
Molecular Weight: 214
CAS: 7758-05-6
EEC-N: 231-831-9

Classification transport
ONU: 1479
Transport Hazard class: 5.1
Packing group II

Danger
H272
P221-P210a-P280a-P220-P370+P378a-P501a

Potassium Iodate > RPE - For analysis
RPE

Description ..... white crystalline powder
Identification (I.R.) ..... Positive
Acidity or alcalinity ..... Passes test
Loss on drying ..... ≤ 0.5 %
Iodide ..... Passes test
Heavy metals (Pb) ..... ≤ 10 ppm
As ..... ≤ 3 ppm
Ba ..... Passes test
Assay (dried base) ..... ≥ 99.5 %

Code	Size	Packaging	Notes
472563	50 g	Glass bottle	
472565	250 g	Glass bottle	

Potassium iodate 0.05 mol/l
Potassio iodato 0.05 mol/l • Potassium iodate 0.05 mol/l • Potasio yodato 0.05 mol/l

KIO_3
Molecular Weight: 214.00
CAS: 7758-05-6

Potassium iodate 0.05 mol/l > RS - For analysis according to Ph. Eur. Chap. 4.2.2
RS

Code	Size	Packaging	Notes
613005200	1 l	Glass bottle	Ref Ph.Eur 3005200

Potassium iodate 0.0167 mol/l (0.1N)
Potassio iodato 0.0167 mol/l (0.1N) • Potassium iodate 0.0167 mol/l (0.1N) • Potasio yodato 0.0167 mol/l (0.1N)

KIO_3
Molecular Weight: 214
CAS: 7758-05-6

Potassium iodate 0.0167 mol/l (0.1N) > RPE - NORMEX - For analysis
RPE

Description ..... Clear colourless liquid
Identification ..... Positive
Titration factor ..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
472601		Glass ampoule	Volume : 60 ml

Volumetric concentrated solution to prepare 1 L of solution 0.001 N

Potassium iodate 0.00167 mol/l (0.01N)
Potassio iodato 0.00167 mol/l (0.01N) • Potassium iodate 0.00167 mol/l (0.01N) • Potasio yodato 0.00167 mol/l (0.01N)

KIO_3
Molecular Weight: 214
CAS: 7758-05-6

Potassium iodate 0.00167 mol/l (0.01N) > RPE - NORMEX - For analysis
RPE

Description ..... Clear colourless liquid
Identification ..... Positive
Titration factor ..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
472631		Glass ampoule	Volume : 60 ml

0,3567 g KIO3. Volumetric concentrated solution to prepare 1 L of solution 0,01 N

Potassium iodide
Potassio ioduro • Potassium iodure • Potasio yoduro

KI
Molecular Weight: 166,01
CAS: 7681-11-0
EEC-N: 231-659-4

Danger
H372
P264-P260-P270-P314-P501a

Potassium iodide > RS - For microanalysis
RS

Description ..... White cryst. powder Identification ..... Positive

Code	Size	Packaging	Notes
472821	100 g	Glass bottle	

Potassium iodide > RPE - For analysis - ACS
RPE

Description ..... White or colourless solid
Identification ..... Positive
pH sol. 5% at 25° C ..... 6.0 ÷ 9.2
Loss on drying at 150°C ..... ≤ 0.2 %
Water-insoluble matter ..... ≤ 50 ppm
Chloride + bromide (Cl) ..... ≤ 100 ppm
Iodate ..... ≤ 3 ppm
Phosphate ..... ≤ 10 ppm
Sulphate ..... ≤ 50 ppm
Heavy metals (Pb) ..... ≤ 5 ppm
Ba ..... ≤ 20 ppm
Ca ..... ≤ 20 ppm
Fe ..... ≤ 3 ppm
Mg ..... ≤ 10 ppm
Na ..... ≤ 50 ppm
Assay (oxidimetric) ..... ≥ 99.0 %

Code	Size	Packaging	Notes
472735	250 g	Plastic bottle	
472737	1 kg	Plastic bottle	
472736	25 kg	Plastic bucket	

Potassium iodide > ERBApharm - According to pharmacopoeia : Ph.Eur.-USP-FU-Ph.Franc.-BP-DAB
ERBApharm

DescriptionPolvere bianca o quasi, o cristalli incolori
Identification ..... Positive
Appearance of solution ..... Conform Ph.Eur.
Alcalinity ..... Conform Ph.Eur.
Thiosulphate ..... Conform Ph.Eur.
Nitrat.nitrit.and NH4OH .... Conform USP-NF
Thiosulfates and barium .. Conform USP-NF
Loss on drying ..... ≤1.0 %
Iodate ..... ≤4 ppm
Heavy metals (Pb) ..... ≤10 ppm
Sulphate ..... ≤150 ppm
Fe ..... ≤20 ppm
Assay (oxidimetric) ..... 99.0 ÷ 100.5 % s.s.

Code	Size	Packaging	Notes
362405	250 g	Plastic bottle	
362407	1 kg	Plastic bottle	
362409	5 kg	Plastic jar	
362403	10 kg	Plastic jar	
362402	25 kg	Plastic bucket	

Potassium iodide solution 10%
Potassio ioduro soluzione 10% • Potassium iodure solution 10% • Potasio yoduro solución 10%

KI
Molecular Weight: 166,01
CAS: 7681-11-0

Danger
H315-H319-H334-H317-H335
P264-P271-P280-P304+P340-P305+P351+P338-P342+P311a

Potassium iodide solution 10% > RPE - For analysis
RPE

Description ..... Clear colourless liquid Density at 20° C ..... 1.072 - 1.080 Assay ..... 9.5 ÷ 10.5 % p/p

Code	Size	Packaging	Notes
472831	500 ml	Glass bottle	

Potassium iodide solution 3.9%
Potassio ioduro soluzione 3.9% • Potassium iodure solution 3.9% • Potasio yoduro solución 3.9%

KI
Molecular Weight: 166,01
CAS: 7681-11-0

Warning
H373
P260-P314-P501a

Potassium iodide solution 3.9% > RPE - For analysis
RPE

Description ..... Clear colourless liquid Assay ..... 3.7 - 4.1 % p/v

Code	Size	Packaging	Notes
472815000	250 ml	Glass bottle	

Content is guaranteed for standardized volumes at 20°C. Keep tightly closed

Potassium iodide solution

Potassio ioduro soluzione • Potassium iodure solution • Potasio yoduro solución

KI
Molecular Weight: 166,01
CAS: 7681-11-0

Potassium iodide solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611070504	100 ml	Glass bottle	Solution saturated Ref Ph.Eur 1070504
611070505	100 ml	Glass bottle	Solution iodinated R1 Ref Ph.Eur 1070505
611070502	1 l	Plastic bottle	Potassium iodide solution 166 g/l Ref Ph.Eur 1070502

Storage: protected from light

Potassium iodide starch paper

Cartina di amido di potassio • Papier potassium iodure d' amidon • Almidón de yoduro de potasio papel

Potassium iodide starch paper > RS - For pHmetry

RS

Code	Size	Packaging	Notes
434980000	1 roll	Box	Paper starch iodide, Color change : White --> Blue-purple

Potassium iodobismuthate solution

Potassio iodobismutato soluzione • Potassium iodobismuthate solution • Potasio yodobismutato solución

Danger
H315-H319-H334-H317
P264-P280-P284-P304+P340-P305+P351+P338-P342+P311a

Potassium iodobismuthate solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611070600	100 ml	Glass bottle	Ref Ph.Eur 1070600
611070602	100 ml	Glass bottle	Potassium iodobismuthate solution R2 Ref Ph.Eur 1070602

Potassium metabisulfite

Potassio metabisolfito • Potassium métabisulfite • Potasio metabisulfito

Synonym:
Potassium disulfite

$K_2S_2O_5$
Molecular Weight: 222,33
CAS: 16731-55-8
EEC-N: 240-795-3

Warning
H319-H335-HEU031
P264-P271-P304+P340-P305+P351+P338-P312a-P337+P313

Potassium metabisulfite > ERBApharm - According to pharmacopoeia : NF

ERBApharm

Description ..... White powder or pieces
Identification ..... Positive
Heavy metals (Pb) ..... ≤10 ppm
Fe ..... ≤10 ppm
Assay (SO2) ..... 51.8 ÷ 57.6 %

Code	Size	Packaging	Notes
362627	1 kg	Plastic bottle	
362629	5 kg	Plastic jar	
362622	10 kg	Plastic jar	
362623	25 kg	Plastic bucket	

Potassium nitrate
Potassio nitrato • Potassium nitrate • Potasio nitrato

KNO_3
Molecular Weight: 101,1
CAS: 7757-79-1
EEC-N: 231-818-8

Classification transport
ONU: 1486
Transport Hazard class: 5.1
Packing group III

Danger
H272
P221-P210a-P280a-P220-P370+P378a-P501a

Potassium nitrate > RPE - For analysis - ISO - ACS - Reag.Ph.Eur. - Reag.USP
RPE

Description ..... White crystalline powder
Identification ..... Positive
pH sol. 5% in H20 ..... 4.5 ÷ 8.5
Water-insoluble matter ..... ≤50 ppm
Chloride ..... ≤20 ppm
Phosphate ..... ≤5 ppm
Iodate ..... ≤5 ppm
Nitrite ..... ≤10 ppm
Sulphate ..... ≤30 ppm
Heavy metals (Pb) ..... ≤5 ppm
Ca ..... ≤50 ppm
Fe ..... ≤3 ppm
Mg ..... ≤20 ppm
Na ..... ≤50 ppm
Assay (acidimetric) ..... ≥99.0 %

Code	Size	Packaging	Notes
473006	100 g	Plastic bottle	
473007	1 kg	Plastic bottle	
473009	5 kg	Plastic jar	
473001	25 kg	Drum	

Potassium nitrate > ERBApharm - According to pharmacopoeia : BP-Ph.Eur.
ERBApharm

Description ..... White crystalline powder
Identification ..... Positive
Appearance of solution ..... Conform Ph.Eur.
Acidity or alkalinity ..... Conform Ph.Eur.
Reducing substances ..... Conform Ph.Eur.
Ammonium ..... ≤ 100 ppm
Heavy metals (Pb) ..... ≤ 10 ppm
Sulphate ..... ≤ 150 ppm
Ca ..... ≤ 100 ppm
Fe ..... ≤ 20 ppm
Na ..... ≤ 0.10 %
Loss on drying ..... ≤ 0.5 %
Assay (acidimetric) ..... 99.0 ÷ 101.0 % s.s.

Code	Size	Packaging	Notes
363007	1 kg	Plastic bottle	
363009	5 kg	Plastic jar	
363002	25 kg	Plastic bucket	

Potassium nitrate 1 mol/l (1N)
Potassio nitrato 1 mol/l (1N) • Potassium nitrate 1 mol/l (1N) • Potasio nitrato 1 mol/l (1N)

KNO_3
Molecular Weight: 101,1
CAS: 7757-79-1

Potassium nitrate 1 mol/l (1N) > RPE - For analysis
RPE

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 20°C ..... 1.057 ÷ 1.061

Code	Size	Packaging	Notes
473045	250 ml	Plastic bottle	

Potassium nitrite
Potassio nitrito • Potassium nitrite • Potasio nitrito

KNO_2
Molecular Weight: 85,1
CAS: 7758-09-0
EEC-N: 231-832-4

Classification transport
ONU: 1488
Transport Hazard class: 5.1
Packing group II

Danger
H272-H301-H400
P221-P264-P273-P210a-P280a-P301+P310a

Potassium nitrite > RPE - For analysis
RPE

Description ..... Yellowish crystals
Identification ..... Positive
Chloride ..... ≤ 100 ppm
Sulphate ..... ≤ 200 ppm
As ..... ≤ 1 ppm
Fe ..... ≤ 10 ppm
Pb ..... ≤ 5 ppm
Assay ..... ≥ 97 %

Code	Size	Packaging	Notes
473084	100 g	Glass bottle	

Potassium oxalate monohydrate

Potassio ossalato monoidrato • Potassium oxalate monohydraté • Potasio oxalato monohidrato

Synonym:
Ethanedioic acid
Oxalic acid potassium salt

$(COOK)_2.H_2O$
Molecular Weight: 184,23
CAS: 6487-48-5
EEC-N: 209-506-8

Warning
H302-H312
P264-P280h-P270-P330-P301+P312a-P302+P352a

Potassium oxalate monohydrate > RPE - For analysis - ACS

RPE

Description ..... White crystalline powder
Identification ..... Positive
Neutrality ..... Conform
Ready carbonizable substances..... Conform
Water-insoluble matter ..... ≤100 ppm
Ammonium ..... ≤20 ppm
Chloride ..... ≤20 ppm
Sulphate ..... ≤100 ppm
Heavy metals (Pb) ..... ≤20 ppm
Fe ..... ≤10 ppm
Na ..... ≤200 ppm
Assay (oxidimetric) ..... 98.5 ÷ 101.0 %

Code	Size	Packaging	Notes
473135	250 g	Plastic bottle	
473137	1 kg	Plastic bottle	
473133	25 kg	Plastic bucket	

Potassium periodate

Potassio (meta)-periodato • Potassium m-périodate • Potasio (meta)-peryodato

Synonym:
Periodic acid potassium salt
Potassium(meta)periodate

KIO_4
Molecular Weight: 230
CAS: 7790-21-8
EEC-N: 232-196-0

Classification transport
ONU: 1479
Transport Hazard class: 5.1
Packing group II

Danger
H272
P221-P210a-P280a-P220-P370+P378a-P501a

Potassium periodate > RPE - For analysis - Reag. Ph.Eur.

RPE

Description ..... White crystalline powder
Identification ..... Positive
Mn ..... ≤ 1 ppm
Assay (iodometric) ..... ≥ 99.5 %

Code	Size	Packaging	Notes
473332	25 g	Glass bottle	
473334	100 g	Glass bottle	

Potassium permanganate

Potassio permanganato • Potassium permanganate • Potasio permanganato

$KMnO_4$
Molecular Weight: 158,04
CAS: 7722-64-7
EEC-N: 231-760-3

Classification transport
ONU: 1490
Transport Hazard class: 5.1
Packing group II

Danger
H272-H302-H410
P221-P264-P273-P210a-P280a-P330

Potassium permanganate > RS - For enviromental analysis - ACS

RS

Description ..... Dark violet crystals
Identification ..... Positive
Chloride & Chlorate(Cl) ..... ≤ 50 ppm
Water-insoluble matter ..... ≤ 0.2 %
Sulphate ..... ≤ 200 ppm
Hg ..... ≤ 0.05 ppm
Assay (oxidimetric) ..... ≥ 99.0 %

Code	Size	Packaging	Notes
476671	100 g	Glass bottle	

Low content in Hg

Potassium permanganate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description ..... Dark violet crystals
Identification ..... Positive
Chloride & Chlorate(Cl) ..... ≤ 50 ppm
Water-insoluble matter ..... ≤ 0.2 %
Sulphate ..... ≤ 200 ppm
Assay (oxidimetric) ..... 99.0 ÷ 100.5 %
Appearance of solution ..... Conform Ph.Eur.

Code	Size	Packaging	Notes
473384	100 g	Plastic bottle	
473385	250 g	Plastic bottle	
473387	1 kg	Plastic bottle	
473381	25 kg	Metal drum	

Potassium permanganate > ERBApharm - According to pharmacopoeia : Ph.Eur.-USP-FU-Ph.Franc.-BP-DAB

ERBApharm

Description ..... Dark-violet crystals
Identification ..... Positive
Appearance of solution .....Conform Ph.Eur.
Loss on drying ..... ≤ 0.5 %
Water not sol. matter ..... ≤ 0.2 %
Chloride.....≤ 200 ppm
Sulphate .....≤ 500 ppm
Assay (oxidimetric) .....99.0 ÷ 100.5 %

Code	Size	Packaging	Notes
363107	1 kg	Plastic bottle	
363109	5 kg	Plastic jar	
363101	25 kg	Metal drum	

Potassium permanganate 0.2 mol/l (1N)

Potassio permanganato 0.2 mol/l (1N) • Potassium permanganate 0.2 mol/l (1N) • Potasio permanganato 0.2 mol/l (1N)

$KMnO_4$
Molecular Weight: 158,04
CAS: 7722-64-7

Classification transport
ONU: 3082
Transport Hazard class: 9
Packing group III

H411
P273-P391-P501a

Potassium permanganate 0.2 mol/l (1N) > RPE - For analysis

RPE

Description .....Clear purple liquid
Assay (potentiometry) .....0.99 - 1.01 N
NIST 136 .....e

Code	Size	Packaging	Notes
473514000	1 l	Glass bottle	

3.1606 g of KMnO4. Volumetric solution ready-to-use : 0.1N. Traceable to NIST

Potassium permanganate 0.02 mol/l (0.1N)

Potassio permanganato 0.02 mol/l (0.1N) • Potassium permanganate 0.02 mol/l (0.1N) • Potasio permanganato 0.02 mol/l (0.1N)

$KMnO_4$
Molecular Weight: 158,04
CAS: 7722-64-7

Potassium permanganate 0.02 mol/l (0.1N) > RS - For analysis according to Ph. Eur. Chap. 4.2.2

RS

Code	Size	Packaging	Notes
613005301	100 ml	Glass bottle	Ref Ph.Eur 3005300
613005309	250 ml	Glass bottle	Ref Ph.Eur 3005300
613005300	1 l	Glass bottle	Ref Ph.Eur 3005300

Potassium permanganate 0.02 mol/l (0.1N) > RPE - For analysis

RPE

Description .....Purple clear liquid
Assay (potentiometry) .....0.0998 - 0.1002 N
NIST 136 .....e

Code	Size	Packaging	Notes
473567000	1 l	Glass bottle	
473565000	5 l	Kubidos	

3.1606 g of KMnO4. Volumetric solution ready-to-use : 0.1N. Traceable to NIST

Potassium permanganate 0.02 mol/l (0.1N) > RPE - NORMEX - For analysis

RPE

Description .....Clear purple liquid
Identification ..... Positive
Titration factor.....0.995 ÷ 1.005

Code	Size	Packaging	Notes
473591		Glass ampoule	Volume : 65 ml

3,161 g KMnO4. Volumetric concentrated solution to prepare 1 L of solution 0,1 N

Potassium permanganate 0.002 mol/l (0.01N)

Potassio permanganato 0.002 mol/l (0.01N) • Potassium permanganate 0.002 mol/l (0.01N) • Potasio permanganato 0.002 mol/l (0.01N)

$KMnO_4$
Molecular Weight: 158,04
CAS: 7722-64-7

H412
P273-P501a

Potassium permanganate 0.002 mol/l (0.01N) > RPE - NORMEX - For analysis

RPE

Description ..... Clear purple liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
473661		Glass ampoule	Volume : 60 ml

0,3161 g KMnO4. Volumetric concentrated solution to prepare 1 L of solution 0,01 N

Potassium permanganate solution 3%

Potassio permanganato soluzione 3% • Potassium permanganate solution 3% • Potasio permanganato solución 3%

$KMnO_4$
Molecular Weight: 158,04
CAS: 7722-64-7

Classification transport
ONU: 3082
Transport Hazard class: 9
Packing group III

H411
P273-P391-P501a

Potassium permanganate solution 3% > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611070902	1 l	Glass bottle	Ref Ph.Eur 1070902

Potassium permanganate and phosphoric acid solution

Potassio permanganato e acido fosforico soluzione • Potassium permanganate - Solution phosphorique • Potasio permanganato y ácido fosfórico solución

$KMnO_4$
Molecular Weight: 158,04
CAS: 7722-64-7

Potassium permanganate and phosphoric acid solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611070901	100 ml	Glass bottle	Ref Ph.Eur 1070901

Potassium persulfate

Potassio persolfato • Potassium persulfate • Potasio persulfato

Synonym:
Potassium peroxodisulfate

$K_2S_2O_8$
Molecular Weight: 270,31
CAS: 7727-21-1
EEC-N: 231-781-8

Classification transport
ONU: 1492
Transport Hazard class: 5.1
Packing group III

Danger
H272-H302-H315-H319-H334-H317-H335
P221-P264-P210a-P304+P340-P305+P351+P338-P342+P311a

Potassium persulfate > RE - Pure

RE

Description ..... White crystalline powder Acidity(Sulphuric acid) ..... ≤ 0.15 % Assay (oxidimetric) ..... ≥ 99 %
Identification ..... Positive Fe ..... ≤ 5 ppm

Code	Size	Packaging	Notes
473701	1 kg	Plastic bottle	

Potassium phosphate dibasic anhydrous

Potassio fosfato bibasico anidro • Potassium phosphate dibasique anhydre • Potasio fosfato dibásico anhidro

Synonym:
Dipotassium hydrogenphosphate

K_2HPO_4
Molecular Weight: 174,18
CAS: 7758-11-4
EEC-N: 231-834-5

Potassium phosphate dibasic anhydrous > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description ..... White crystalline powder
Identification ..... Positive
pH sol. 5% in H20 ..... 8.5 ÷ 9.6
Loss on drying (105°C) ..... ≤1.0 %
Water-insoluble matter ..... ≤100 ppm
Total nitrogen ..... ≤10 ppm
Chloride ..... ≤30 ppm
Sulphate ..... ≤50 ppm
Heavy metals (Pb) ..... ≤5 ppm
Fe ..... ≤10 ppm
Na ..... ≤500 ppm
Assay (potetiometric) ..... ≥98.0 %

Code	Size	Packaging	Notes
471785	100 g	Plastic bottle	
471786	500 g	Plastic bottle	
471787	1 kg	Plastic bottle	
471782	5 kg	Plastic jar	
471781	25 kg	Plastic drum	
471788	25 kg	Plastic bucket	

Potassium phosphate dibasic anhydrous > RE - Pure

RE

Description ..... White powder
Identification ..... Positive
Chloride ..... ≤100 ppm
Heavy metals (Pb) ..... ≤30 ppm
Sulphate ..... ≤200 ppm
As ..... ≤20 ppm
Fe ..... ≤50 ppm
Assay (acidimetric) ..... ≥98 %

Code	Size	Packaging	Notes
361757	1 kg	Plastic bottle	
361752	5 kg	Plastic jar	
361751	25 kg	Plastic bucket	

Potassium phosphate dibasic trihydrate

Potassio fosfato bibasico triidrato • Potassium phosphate dibasique trihydraté • Potasio fosfato dibasico trihidrato

Synonym:
Dipotassium hydrogen phosphate trihydrate

$K_2HPO_4.3H_2O$
Molecular Weight: 228,23
CAS: 16788-57-1
EEC-N: 231-834-5

Potassium phosphate dibasic trihydrate > RPE - For analysis

RPE

Description ..... White crystals
Identification ..... Positive
pH sol. 5% in H20 ..... 8.5 ÷ 9.6
Water-insoluble matter ..... ≤100 ppm
Total nitrogen ..... ≤50 ppm
Chloride ..... ≤50 ppm
Sulphate ..... ≤100 ppm
As ..... ≤1 ppm
Cu ..... ≤30 ppm
Fe ..... ≤30 ppm
Assay (non-aqueos medium) ..... ≥ 99.0 %
Ni ..... ≤30 ppm
Pb ..... ≤30 ppm

Code	Size	Packaging	Notes
471764	100 g	Plastic bottle	
471766	500 g	Plastic bottle	
471767	1 kg	Plastic bottle	
471761	25 kg	Fibre drum	

Potassium phosphate monobasic

Potassio fosfato monobasico • Potassium phosphate monobasique • Potasio fosfato monobásico

Synonym:
Monopotassium phosphate
Potassium dihydrogen phosphate

KH_2PO_4
Molecular Weight: 136,09
CAS: 7778-77-0
EEC-N: 231-913-4

Potassium phosphate monobasic > RPE - For analysis - ISO - ACS - Reag.Ph.Eur. - Reag.USP

RPE

Description .....White crystals
Identification ..... Positive
pH sol. 5% in H2O.....4.1 ÷ 4.5
Loss on drying (105°C)..... ≤0.2 %
Water-insoluble matter .....≤100 ppm
Total nitrogen.....≤10 ppm
Chloride.....≤10 ppm
Sulphate.....≤30 ppm
Heavy metals (Pb).....≤10 ppm
Fe .....≤10 ppm
Na.....≤50 ppm
Assay (potetiometric) 99.0 ÷ 100.5 (s-s) %
Appearance of solution .....Clear colourless liquid Ph. Eur.
Reducing substances .....Pass test Ph.Eur.
As .....≤ 2 ppm
Loss on drying 130°C..... ≤ 2.0 %

Code	Size	Packaging	Notes
471685	100 g	Plastic bottle	
471686	500 g	Plastic bottle	
471687	1 kg	Plastic bottle	
471682	5 kg	Plastic jar	
471681	25 kg	Drum	

Potassium phosphate monobasic > ERBApharm - According to pharmacopoeia : NF

ERBApharm

Description ..... White crystalline powder
Identification .....Positive
Organic volatile impurities Conform USP-NF
Loss on drying ..... ≤1.0 %
Fluoride .....≤10 ppm
Heavy metals (Pb).....≤20 ppm
Not soluble matter..... ≤0.2 %
As .....≤3 ppm
Pb .....≤5 ppm
Assay .....98.0 ÷ 100.5 % s.s.
Origin (BSE/TSE)..... Synthesis
Residual solvents (Current ICH).....Conform

Code	Size	Packaging	Notes
361507	1 kg	Plastic bottle	
361509	5 kg	Plastic jar	
361503	25 kg	Plastic bucket	

Potassium phosphate monobasic 0.2 mol/l (0.2N)

Potassio fosfato monobasico 0.2 mol/l (0.2N) • Potassium phosphate monobasique 0.2 mol/l (0.2N) • Potasio fosfato monobásico 0.2 mol/l (0.2N)

Synonym:
Monopotassium phosphate
Potassium dihydrogen phosphate

KH_2PO_4
Molecular Weight: 136,09
CAS: 7778-77-0

Potassium phosphate monobasic 0.2 mol/l (0.2N) > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611069601	1 l	Plastic bottle	Ref Ph.Eur 1069601

Potassium pyroantimonate acid

Potassio piroantimoniato acido • Potassium pyroantimoniate acide • Potasio piroantimoniato acido

Synonym:
Potassium hexahydroxoantimonate(V)
Potassium antimonate, hydrated

$KSb(OH)_6$
Molecular Weight: 262,9
CAS: 12208-13-8
EEC-N: 235-387-7

Classification transport
ONU: 1549
Transport Hazard class: 6.1
Packing group III

Warning
H302-H332-H411
P264-P273-P271-P261-P304+P340-P330

Potassium pyroantimonate acid > RPE - For analysis

RPE

Description ..... White powder
Identification ..... Positive
Water-insoluble matter .....≤ 100 ppm
Sodium sensitivity.....~ 2.5 µg/ml
Assay (oxidimetric) .....≥ 94 %

Code	Size	Packaging	Notes
473835	250 g	Plastic bottle	

Potassium pyroantimonate solution

Potassio piroantimoniato soluzione • Potassium pyroantimoine solution • Potasio piroantimoniato solución

Synonym:
Potassium hexahydroxoantimonate(V)
Potassium antimonate, hydrated

$KSb(OH)_6$
Molecular Weight: 262,9
CAS: 12208-13-8

Classification transport
ONU: 1760
Transport Hazard class: 8
Packing group II

Potassium pyroantimonate solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611071303	100 ml	Plastic bottle	Ref Ph.Eur 1071300
611071309	250 ml	Plastic bottle	Ref Ph.Eur 1071300
611071302	1 l	Plastic bottle	Ref Ph.Eur 1071300

Potassium pyrogallate solution 14%

Potassio pirogallato soluzione 14% • Potassium pyrogallate solution 14% • Potasio pirogalato solución 14%

Classification transport
ONU: 3266
Transport Hazard class: 8
Packing group II

Danger
H302-H314-H318-H341
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Potassium pyrogallate solution 14% > RS - For gas analysis according to Orsat

RS

Description ..... Liquido bruno
Identification ..... Positive
Density at 20° C ..... 1.53 ÷ 1.55

Code	Size	Packaging	Notes
E473961	250 ml	Glass bottle	
E473962	1 l	Glass bottle	

tetra-Potassium pyrophosphate

Potassio pirofosfato • Potassium pyrophosphate • Potasio pirofosfato

$K_4P_2O_7$
Molecular Weight: 330,35
CAS: 7320-34-5
EEC-N: 230-785-7

tetra-Potassium pyrophosphate > RPE - For analysis

RPE

Description ..... White powder
Identification ..... Positive
Water-insoluble matter ..... ≤ 0.1 %
Fluoride ..... ≤ 5 ppm
Heavy metals (Pb) ..... ≤ 20 ppm
pH sol. 1% at 25° C ..... 10.0 ÷ 10.5
As ..... ≤ 1 ppm
Fe ..... ≤ 30 ppm
Pb ..... ≤ 1 ppm
Assay (acidimetric) ..... ≥ 95.0 %

Code	Size	Packaging	Notes
473915	250 g	Plastic bottle	

Potassium pyrosulphate

Potassio pirosolfato • Potassium pyrosulfate • Potasio pirosulfato

Synonym:
Potassium disulfate

$K_2O_7S_2$
Molecular Weight: 254,33
CAS: 7790-62-7
EEC-N: 232-216-8

Classification transport
ONU: 3260
Transport Hazard class: 8
Packing group II

Danger
H314
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Potassium pyrosulphate > RPE - For analysis - ACS

RPE

Description ..... White granules
Identification ..... Positive
Water (K.F.) ..... ≤ 2.5 %
Chloride ..... ≤ 20 ppm
Phosphate ..... ≤ 10 ppm
Heavy metals (Pb) ..... ≤ 10 ppm
Fe ..... ≤ 20 ppm
Na ..... ≤ 100 ppm
Assay (acidimetric) .37.5 ÷ 38.6 %(H2SO4)
Ca ..... ≤ 20 ppm
Mg ..... ≤ 10 ppm
Water-insoluble matter ..... ≤ 100 ppm

Code	Size	Packaging	Notes
474016	100 g	Plastic bottle	
474017	1 kg	Plastic bottle	

Potassium sodium tartrate tetrahydrate

Potassio sodio tartrato tetraidrato • Potassium sodium tartrate tétrahydraté • Potasio y sodio tartrato tetrahidrato

Synonym:
Rochelle salt

$C_4H_4O_6KNa.4H_2O$
Molecular Weight: 282,23
CAS: 6381-59-5
EEC-N: 205-698-2

Potassium sodium tartrate tetrahydrate > RPE - For analysis - ISO - ACS - Reag.Ph.Eur. - Reag.USP

RPE

Description . White semitransparent crystals
Identification ..... Positive
pH sol. 5% at 25° C .....6.0 ÷ 8.5
Ammonium .....≤20 ppm
Chloride.....≤10 ppm
Phosphate .....≤20 ppm
Water-insoluble matter .....≤50 ppm
Heavy metals (Pb).....≤5 ppm
Sulphate .....≤50 ppm
Ca.....≤50 ppm
Fe .....≤10 ppm
Assay (non-aqueos medium) .99.0 ÷ 102.0 %

Code	Size	Packaging	Notes
474115	100 g	Plastic bottle	
474116	500 g	Plastic bottle	
474117	1 kg	Plastic bottle	
474119	5 kg	Plastic jar	
474112	25 kg	Plastic bucket	
474114	50 kg	Plastic bucket	

Potassium sodium tartrate tetrahydrate > ERBApharm - According to pharmacopoeia : USP

ERBApharm

Description ..... White crystalline powder
Identification ..... Positive
Alcalinity..... Conform USP-NF
Ammonia..... Conform USP-NF
Water (K.F.) .....21.0 ÷ 27.0 %
Heavy metals (Pb).....≤10 ppm
Assay (alkalimetric).....99.0 ÷ 102.0 % s.s.

Code	Size	Packaging	Notes
363457	1 kg	Plastic bottle	
363459	5 kg	Plastic jar	
363454	50 kg	Plastic bucket	

Potassium sorbate

Potassio sorbato • Potassium sorbate • Potasio sorbato

Synonym:
Potassium 2,4-hexadienoate
Sorbic acid potassium salt

$CH_3(CH{:}CH)_2COOK$
Molecular Weight: 150,22
CAS: 24634-61-5
EEC-N: 246-376-1

Warning
H319
P264-P280i-P305+P351+P338-P337+P313

Potassium sorbate > RE - Pure

RE

Description .....Ivory powder
Identification ..... Positive
M.p. extr. Sorbic acid.....133 ÷ 135 ° C
Loss on drying in vacuo ..... ≤1 %
Aldehydes(Formaldehyde) ..... ≤0.1 %
Cu + Zn.....≤50 ppm
As .....≤3 ppm
Pb .....≤10 ppm
Zn .....≤25 ppm
Assay (non-aqueos medium)..... ≥99 % s s

Code	Size	Packaging	Notes
363884	1 kg	Plastic bottle	

Potassium sulfate

Potassio solfato • Potassium sulfate • Potasio sulfato

K_2SO_4
Molecular Weight: 174,27
CAS: 7778-80-5
EEC-N: 231-915-5

Potassium sulfate > RS - For microanalysis

RS

Description ..... White crystals
Identification ..... Positive

Code	Size	Packaging	Notes
474205	250 g	Plastic bottle	

Potassium sulfate > RPE - For analysis - ISO - ACS - Reag.Ph.Eur. - Reag.USP

RPE

Description ..... White crystals
Identification ..... Positive
pH sol. 5% in H2O ..... 5.5 ÷ 8.5
Total nitrogen ..... ≤5 ppm
Chloride ..... ≤10 ppm
Water-insoluble matter ..... ≤100 ppm
Heavy metals (Pb) ..... ≤5 ppm
Fe ..... ≤5 ppm
Na ..... ≤200 ppm
Assay (acidimetric) ..... ≥99.0 %
Ca ..... ≤100 ppm
Mg ..... ≤50 ppm

Code	Size	Packaging	Notes
474166	100 g	Plastic bottle	
474167	1 kg	Plastic bottle	
474169	5 kg	Plastic jar	

Potassium sulfate > RE - Pure

RE

Description ..... White crystalline powder
Identification ..... Positive
Loss on ignition ..... ≤1 %
Chloride ..... ≤40 ppm
Assay (gravimetric) ..... ≥99 %
Na ..... ≤ 300 ppm
Mg ..... ≤ 300 ppm

Code	Size	Packaging	Notes
363607	1 kg	Plastic bottle	
363608	5 kg	Plastic jar	
363602	25 kg	Plastic bucket	

Potassium tartrate

Potassio tartrato • Potassium tartrate • Potasio tartrato

$C_4H_4K_2O_6 \cdot 1/2H_2O$
Molecular Weight: 235,28
CAS: 6100-19-2

Potassium tartrate > RPE - For analysis

RPE

Description ..... White crystals
Identification ..... Positive
pH sol. 5% at 25° C ..... 7.0 ÷ 9.0
Ammonium ..... ≤ 10 ppm
Chloride ..... ≤ 10 ppm
Phosphate ..... ≤ 5 ppm
Water-insoluble matter ..... ≤ 50 ppm
Heavy metals (Pb) ..... ≤ 5 ppm
Sulphate ..... ≤ 50 ppm
As ..... ≤ 0.4 ppm
Ca ..... ≤ 50 ppm
Cu ..... ≤ 2 ppm
Fe ..... ≤ 5 ppm
Na ..... ≤ 200 ppm
Ni ..... ≤ 2 ppm
Pb ..... ≤ 2 ppm
Zn ..... ≤ 2 ppm
Assay (non-aqueos medium) ..... ≥ 99 %

Code	Size	Packaging	Notes
474465	250 g	Plastic bottle	
474467	1 kg	Plastic bottle	

Potassium L-tartrate monobasic

Potassio tartrato acido • Potassium L-tartrate monobasique • Potasio tartrato acido

Synonym:
Potassium bitartrate

$COOK(CHOH)_2COOH$
Molecular Weight: 188,18
CAS: 868-14-4
EEC-N: 212-769-1

Potassium L-tartrate monobasic > RPE - For analysis

RPE

Description ..... White crystalline powder
Identification ..... Positive
Loss on drying ..... ≤ 0.2 %
Pot. rotat. spec. a 20°C (c=10; NaOH 1N) ..... +32 ÷ +33 °
Chloride ..... ≤ 200 ppm
Heavy metals (Pb) ..... ≤ 10 ppm
Sulphate ..... ≤ 100 ppm
As ..... ≤ 1 ppm
Assay (non-aqueos medium) ..... ≥ 98.5 %

Code	Size	Packaging	Notes
474515	250 g	Plastic bottle	
474517	1 kg	Plastic bottle	

Potassium L-tartrate monobasic > RE - Pure

RE

Description ..... White crystalline powder
Identification ..... Positive
Loss on drying ..... ≤0.5 %
Ac. tartarico libero ..... ≤0.2 %
Chloride ..... ≤350 ppm
Sulphate ..... ≤0.12 %
As ..... ≤1 ppm
Pb ..... ≤10 ppm
Assay (acidimetric) ..... ≥99.5 % s.s.

Code	Size	Packaging	Notes
363907	1 kg	Plastic bottle	

Potassium tellurite

Potassio tellurito • Potassium tellurite • Potasio telurito

$K_2TeO_3.nH_2O$
Molecular Weight: 253,8
CAS: 7790-58-1
EEC-N: 232-213-1

Danger
H301
P264-P270-P301+P310a-P330-P321-P405

Potassium tellurite > RE - Pure — RE

Description ..... Yellowish crystals Identification ..... Positive Assay (oxidimetric) ..... ≥95 %

Code	Size	Packaging	Notes
474652	25 g	Glass bottle	

Potassium tetraiodomercurate solution, alkaline

Potassio tetraiodomercurato soluzione alcalina • Potassium tétraiodomercurate - Solution alcaline • Potasio tetraiodomercurato solución alcalina

Classification transport
ONU: 3289
Transport Hazard class: 6.1
Packing group I

Danger
H300-H310-H330-H314-H373-H410
P264-P273-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Potassium tetraiodomercurate solution, alkaline > RS - For analysis according to Ph. Eur. Chap. 4.1.1 — RS

Code	Size	Packaging	Notes
611071600	200 ml	Bottle	Ref Ph.Eur 1071600

Potassium thiocyanate

Potassio solfocianuro • Potassium sulfocyanure • Potasio sulfocianuro

Synonym:
Potassium rhodanide

KSCN
Molecular Weight: 97,18
CAS: 333-20-0
EEC-N: 206-370-1

Warning
H302-H312-H332-H412-HEU032
P264-P273-P271-P261-P304+P340-P330

Potassium thiocyanate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP — RPE

Description ..... White crystals Water-insoluble matter ..... ≤50 ppm Chloride ..... ≤50 ppm Fe ..... ≤2 ppm
Identification ..... Positive Reducing iodine ..... Conform ACS Sulphate ..... ≤50 ppm Na ..... ≤50 ppm
pH sol. 5% at 25° C ..... 5.3 ÷ 8.7 Ammonium ..... ≤30 ppm Heavy metals (Pb) ..... ≤5 ppm Assay (argentimetric) ..... ≥99.0 %

Code	Size	Packaging	Notes
474355	250 g	Plastic bottle	
474357	1 kg	Plastic bottle	

Potassium thiocyanate > RE - Pure — RE

Description ..... White crystalline powder pH sol. 5% at 20°C ..... 5.0 ÷ 8.7 Heavy metals (Pb) ..... ≤ 20 ppm Fe ..... ≤ 20 ppm
Identification ..... Positive Chloride ..... ≤ 500 ppm Sulphate ..... ≤ 0.1 % Assay (argentimetric) ..... ≥ 98 %

Code	Size	Packaging	Notes
363756	500 g	Plastic bottle	
363752	25 kg	Plastic bucket	

Potassium thiocyanate 0.1 mol/l (0.1N)

Potassio solfocianuro 0.1 mol/l (0.1N) • Potassium sulfocyanure 0.1 mol/l (0.1N) • Potasio sulfocianuro 0.1 mol/l (0.1N)

Synonym:
Potassium rhodanide

KSCN
Molecular Weight: 97,18
CAS: 333-20-0

HEU031-HEU210

Potassium thiocyanate 0.1 mol/l (0.1N) > RPE - For analysis — RPE

Description ..... Clear colourless liquid Identification ..... Positive Titration factor ..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
E474417	1 l	Plastic bottle	

9.718 g of KSCN. Volumetric solution ready-to-use : 0.1N. Stabilized with p-oxybenzoate

Potassium thiocyanate solution 5%

Potassio solfocianuro soluzione 5% • Potassium sulfocyanure solution 5% • Potasio sulfocianuro solución 5%

Synonym: *Potassium rhodanide*

KSCN
Molecular Weight: 97,18
CAS: 333-20-0

HEU031-HEU210

Potassium thiocyanate solution 5% > RPE - For analysis

RPE

Description ..... Clear colourless liquid Identification ..... Positive Density at 20° C ..... 1.020 ÷ 1.030

Code	Size	Packaging	Notes
E474381	1 l	Plastic bottle	

Stabilized with methyle p-hydroxybenzoate and n-Propyle p-hydroxybenzoate

Potassium thiocyanate solution

Potassio solfocianuro soluzione • Potassium sulfocyanure solution • Potasio sulfocianuro solución

Synonym: *Potassium rhodanide*

KSCN
Molecular Weight: 97,18
CAS: 333-20-0

Potassium thiocyanate solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611071801	1 l	Plastic bottle	A 97 g/l solution Ref Ph.Eur 1071801

Praseodymium standard solution

Praseodimio standard soluzione • Praséodyme solution standard • Praseodimio, solución patrón

Classification transport
ONU: 1760
Transport Hazard class: 8
Packing group III

Danger
H314-H319
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Praseodymium standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505782	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505785	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Praseodymium standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
503821	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503825	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
503823	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503827	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Primary opalescent suspension

Sospensione primaria di opalescenza • Suspension mère d'opalescence • Suspensión opalescente primaria

Danger
H317-H350-HA26
P280-P261-P272-P308+P313-P333+P313-P302+P352a

Primary opalescent suspension > RS - For analysis according to USP-Ph. Eur. Chap. 2.2.1

RS

Code	Size	Packaging	Notes
612201100	100 ml	Glass bottle	Formazin suspension

Primary solutions for degree of coloration of liquids

Soluzioni primarie per il grado di colorazione dei liquidi • Solutions primaires pour le degré de coloration des liquides • Soluciónes primarias para el grado de coloración de líquidos

Classification transport
ONU: 1760
Transport Hazard class: 8
Packing group III

H411
P273-P391-P501a

Primary solutions for degree of coloration of liquids > RS - For analysis according to Ph. Eur. Chap. 2.2.2 — RS

Code	Size	Packaging	Notes
612202100	100 ml	Glass bottle	Yellow primary solution
612202200	100 ml	Plastic bottle	Red primary solution
612202300	100 ml	Plastic bottle	Blue primary solution

Primary solutions for degree of coloration of liquids > RS - For analysis according to USP — RS

Code	Size	Packaging	Notes
612002100	100 ml	Glass bottle	Yellow primary solution
612002200	100 ml	Plastic bottle	Red primary solution
612002300	100 ml	Plastic bottle	Blue primary solution

L(-)Proline

L(-)Prolina • L(-)Proline • L(-)Prolina

Synonym:
(S)-Pyrrolidine-2-carboxylic acid

$NH(CH_2)_3CHCOOH$
Molecular Weight: 115,13
CAS: 147-85-3
EEC-N: 205-702-2

L(-)Proline > RPE - For analysis — RPE

Description ..... White crystalline powder
Identification ..... Positive
Potere rotat. spec. a 20°C (C=4; H2O)-86.8 ÷ -84.5 °
pH 2,5% at 25° C .....5.5 ÷ 7
Loss on drying ..... ≤ 0.3 %
Ammonium .....≤ 200 ppm
Chloride.....≤ 200 ppm
Heavy metals (Pb).....≤ 10 ppm
Sulphate .....≤ 200 ppm
Sulphated ash..... ≤ 0.1 %
As .....≤ 1 ppm
Fe .....≤ 10 ppm
Altri amminoacidi (TLC)..... ≤ 0.5 %
Trasmittanza a 430 nm (C=10; H2O)≥ 95 %
Assay (non-aqueos medium) .99.0 ÷ 101.0 %

Code	Size	Packaging	Notes
474708	5 g	Glass bottle	
474709	25 g	Glass bottle	

Propan-1-ol

Propan-1-olo • Propane-1-ol • Propan-1-ol

Synonym:
1-Propanol
Propyl alcohol

$CH_3CH_2CH_2OH$
Molecular Weight: 60,1
CAS: 71-23-8
EEC-N: 200-746-9

Classification transport
ONU: 1274
Transport Hazard class: 3
Packing group III

Danger
H225-H318-H336
P243-P303+P361+P353-P304+P340-P305+P351+P338-P312a-P403+P235

Propan-1-ol > RS - For HPLC - Isocratic Grade — RS

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 20° C .....0.803 ÷ 0.805
Refractive index at 20°C.1.3840 ÷ 1.3860
Boiling point.....96.9 ÷ 97.4 ° C
Acidity or alkalinity.....≤0.00015 meq/g
Water (K.F.) .....≤500 ppm
Residue on evaporation .....≤10 ppm
Assay (GLC) ..... ≥99.5 %
U.V. Transmittance
at 220 nm ..... ≥20 %
at 230 nm ..... ≥56 %
at 240 nm ..... ≥79 %
at 250 nm ..... ≥89 %
at 270 nm ..... ≥96 %
at 290 nm ..... ≥98 %

Code	Size	Packaging	Notes
412541000	1 l	Glass bottle	
412542000	2.5 l	Glass bottle	

Filtered through 0.2 µm membrane

Propan-1-ol > RS - Anhydrous - For analysis

RS

Refractive index at 20°C ..... 1.384 - 1.386
Water content (K.F.) ..... ≤ 300 mg/Kg
Non volatile residue ..... ≤ 10 mg/Kg
Colour ..... ≤ 10 Hazen
Assay (GC) ..... ≥ 99.5 %
Free acid (as CH3COOH) ..... ≤ 0.03 % m/m

Code	Size	Packaging	Notes
P0941016	1 l	Glass bottle	
P0941021	2.5 l	Glass bottle	
P0941049	25 l	Plastic tank	

Propan-1-ol > RPE - For analysis - Reag.Ph.Eur.

RPE

Description ..... Clear liquid
Identification (I.R.) ..... Conform
Colour ..... ≤ 10 APHA
Density at 20° C ..... 0.803 ÷ 0.805
Refractive index at 20°C. 1.3840 ÷ 1.3860
Boiling point ..... 96 ÷ 98 ° C
Distillation range ..... 96 ÷ 99°C
Water (K.F.) ..... ≤ 1000 ppm
Residue on evaporation ..... ≤ 5 ppm
Acidity (acetic acid) ..... ≤ 0.03 %
Assay (GLC) ..... ≥ 99.5 %

Code	Size	Packaging	Notes
415104	1 l	Glass bottle	
415102	2.5 l	Glass bottle	
415108	10 l	Plastic tank	
415106	25 l	Aluminium can	

Propan-1-ol > RE - Pure

RE

Description ..... Clear liquid
Identification ..... Positive
Density at 20° C ..... 0.802 ÷ 0.806
Refractive index at 20°C. 1.3830 ÷ 1.3870
Water (K.F.) ..... ≤0.5 %
Residue on evaporation ..... ≤ 50 ppm
Assay (GLC) ..... ≥99 %
Colour ..... ≤ 10 APHA

Code	Size	Packaging	Notes
309351	1 l	Glass bottle	
309352	2.5 l	Glass bottle	
309354	5 l	Plastic tank	
309353	25 l	Plastic tank	
309358	165 kg	Metal drum	

Propan-2-ol

Propan-2-olo • Propane-2-ol • Propan-2-ol

Synonym:
2-Propanol
Isopropanol

$CH_3CHOHCH_3$
Molecular Weight: 60,1
CAS: 67-63-0
EEC-N: 200-661-7

Classification transport
ONU: 1219
Transport Hazard class: 3
Packing group II

Danger
H225-H319-H336
P210-P241-P264-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

Propan-2-ol > RS - For LC/MS

RS

Description ..... Clear colourless liquid
Colour ..... ≤ 10 APHA
Identification (I.R.) ..... Positive
Refractive index at 20°C ..... 1.375 - 1.379
Water (K.F.) ..... ≤ 200 ppm
Residue on evaporation ..... ≤ 2 ppm
Acidity (acetic acid) ..... ≤ 0.0010 %
Alcalinity (NH3) ..... ≤ 0.0005 %
Assay (CPG) ..... ≥ 99.95 %
Transmittance
At 220 nm ..... ≥ 64 %
At 230 nm ..... ≥ 80 %
At 260 nm ..... ≥ 98.5 %
HPLC Gradient
At 254 nm ..... ≤ 2 mAU
Test LC-MS TIC (50-2000m/z) ES I(+)
Sensitive Impurities (reserpine) ... ≤ 100 ppb
Metals compounds
Al ..... ≤ 50 ppb
Fe ..... ≤ 50 ppb
Na ..... ≤ 50 ppb
Ca ..... ≤ 50 ppb
Mg ..... ≤ 50 ppb
K ..... ≤ 50 ppb

Code	Size	Packaging	Notes
415183	1 l	Glass bottle	
415184	2.5 l	Glass bottle	

Propan-2-ol > RS - For HPLC PLUS Gradient grade

RS

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 20° C ..... 0.784 ÷ 0.786
Refractive index at 20°C. 1.3766 ÷ 1.3786
Boiling point ..... 82.1 ÷ 82.6 ° C
Acidity or alkalinity ..... ≤0.0001 meq/g
Water (K.F.) ..... ≤0.1 %
Residue on evaporation ..... ≤2 ppm
Assay (GLC) ..... ≥99.5 %
Fluorescence
at 254 nm ..... ≤2 ppb
at 365 nm ..... ≤2 ppb
U.V. Transmittance
at 220 nm ..... ≥63 %
at 230 nm ..... ≥79 %
at 240 nm ..... ≥89 %
at 250 nm ..... ≥96 %
at 260 nm ..... ≥98 %
at 270 nm ..... ≥99 %

Code	Size	Packaging	Notes
412711000	1 l	Glass bottle	
412712000	2.5 l	Glass bottle	

Filtered through 0.2 µm membrane

Propan-2-ol > RS - For HPLC Isocratic grade - ACS - Reag.Ph.Eur - Reag.USP

RS

Appearance ..... Clear liquid
Identification ..... Positive
Color ..... ≤ 10 APHA
Solubility in water ..... Passes test
Miscibility in alcohol ..... Passes test
Miscibility in water ..... Passes test
Boiling point ..... 82.05 ÷ 82.55 °C

Density at 20°C ..... 0.784 ÷ 0.786
Refractive index at 20°C . 1.3766 ÷ 1.3786
Carbonyl comp. (propionald. and acetone) ≤ 20 ppm
Residue after evaporation ..... ≤ 5 ppm
Water (H2O) ..... ≤ 500 ppm
Titrable acid or base ..... ≤ 0.0001 meq/g

Assay (GLC) ..... ≥ 99.9 %
Absorbance UV (ACS - USP)
at 210 nm ..... ≤ 1.00 AU
at 220 nm ..... ≤ 0.40 AU
at 230 nm ..... ≤ 0.20 AU
at 245 nm ..... ≤ 0.08 AU
at 260 nm ..... ≤ 0.04 AU

at 275 nm ..... ≤ 0.03 AU
at 300 nm ..... ≤ 0.02 AU
from 400 to 330 nm ..... ≤ 0.01 AU
Transmittance UV (RS CLHP - Reag Ph Eur)
at 250 nm ..... ≥ 95 %
Filtered at 0,2 µm

Code	Size	Packaging	Notes
412821	1 l	Glass bottle	
525161	2.5 l	Glass bottle	

Propan-2-ol > RS - For HPLC - Isocratic Grade

RS

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 20° C ..... 0.784 ÷ 0.786
Colour ..... ≤ 10 Hazen
Refractive index at 20°C . 1.3766 ÷ 1.3786

Boiling point ..... 82.1 ÷ 82.6 ° C
Acidity or alkalinity ..... ≤0.0001 meq/g
Water (K.F.) ..... ≤0.1 %
Residue on evaporation ..... ≤2 ppm
Assay (GLC) ..... ≥99.9 %

U.V. Transmittance
at 210 nm ..... ≥ 20 %
at 220 nm ..... ≥63 %
at 230 nm ..... ≥79 %
at 240 nm ..... ≥89 %

at 250 nm ..... ≥96 %
at 260 nm ..... ≥98 %
at 270 nm ..... ≥99 %

Code	Size	Packaging	Notes
412421000	1 l	Glass bottle	
412422000	2.5 l	Glass bottle	

Filtered through 0.2 µm membrane

Propan-2-ol > RS - For preparative HPLC

RS

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 20° C ..... 0.784 ÷ 0.786

Refractive index at 20°C . 1.3766 ÷ 1.3786
Boiling point ..... 82.1 ÷ 82.6 °C
Water (K.F.) ..... ≤500 ppm

Residue on evaporation ..... ≤5 ppm
Alcalinity (NH3) ..... ≤0.0002 meq/g
Assay (GLC) ..... ≥99.5 %

U.V. Transmittance
at 220 nm ..... ≥50 %
at 255 nm ..... ≥97 %

Code	Size	Packaging	Notes
415112	2.5 l	Glass bottle	

Propan-2-ol > RS - PESTIPUR - For pesticide analysis

RS

Clear,colourless liq.appearance ..... Conform
Identification ..... Conform
Refractive index at 20°C ..... 1.375 - 1.379

Colour ..... ≤ 10 Apha
Water content (K.F.) ..... ≤ 500 mg/Kg
Non volatile residue ..... ≤ 2 mg/Kg

Free acid (as CH3COOH) ..... ≤ 20 mg/Kg
Assay (GC) ..... ≥ 99.9 %
GC-ECD.Individual peak (Lindane) .. ≤ 3 ng/l

Retention time trichlorobenzene to mirex
GC-NPD.Individual peak (Ethylparathion) ≤ 3 ng/l
Retention time Atrazin to Coumaphos

Code	Size	Packaging	Notes
415281	1 l	Glass bottle	

Propan-2-ol > RS - SPECTROSOL - For optical spectroscopy

RS

Description ..... Clear liquid
Colour (APHA) ..... ≤10
Identification ..... Positive
Density at 20° C ..... 0.784 ÷ 0.786
Refractive index at 20°C . 1.3766 ÷ 1.3786
Boiling point ..... 82.1 ÷ 82.6 ° C

Water (K.F.) ..... ≤500 ppm
Residue on evaporation ..... ≤5 ppm
Acidity ..... ≤0.0005 meq/g
Alcalinity ..... ≤0.0002 meq/g
Assay (GC) ..... ≥ 99.8 %

Fluorescence
at 254 nm ..... ≤2 ppb
at 365 nm ..... ≤2 ppb
U.V. Transmittance
at 205 nm ..... ≥10 %
at 215 nm ..... ≥50 %

at 230 nm ..... ≥80 %
at 250 nm ..... ≥95 %
at 260 nm ..... ≥98 %

Code	Size	Packaging	Notes
415213	1 l	Glass bottle	

Propan-2-ol > RS - Anhydrous - For analysis

RS

Refractive index at 20°C ..... 1.375 - 1.379
Water content (K.F.) ..... ≤ 300 mg/Kg

Non volatile residue ..... ≤ 10 mg/Kg
Colour ..... ≤ 10 Hazen

Assay (GC) ..... ≥ 99.8 %
Free acid (as CH3COOH) ..... ≤ 10 mg/Kg

Code	Size	Packaging	Notes
P0951010	200 ml	Bottle with septum	
P0951016	1 l	Glass bottle	

Propan-2-ol > RS - VLSI For electronic use

RS

Code	Size	Packaging	Notes
527696	1 l	Glass bottle	
527690	2.5 l	Glass bottle	
527691	30 l	Plastic drum	

For specifications, contact our customer service for a certificate of analysis

Propan-2-ol > RS - RSE - For electronic use

RS

Description	Clear liquid	Chloride	≤0.2 ppm	Bi	≤0.02 ppm	Mo	≤0.05 ppm
Colour (APHA)	≤10	Total phosphorus	≤0.1 ppm	Ca	≤0.2 ppm	Na	≤0.5 ppm
Identification	Positive	Heavy metals (Pb)	≤0.1 ppm	Cd	≤0.01 ppm	Ni	≤0.01 ppm
Water miscibility	Conform	Subst. reducing KMnO4	≤2.5 ppm	Co	≤0.01 ppm	Pb	≤0.01 ppm
Assay (GLC)	≥99.7 %	Total sulphur	≤1 ppm	Cr	≤0.01 ppm	Pt	≤0.05 ppm
Resistivity	≥10 Mohm.cm	Phosphate	≤0.5 ppm	Cu	≤0.01 ppm	Sb	≤0.01 ppm
Density at 20° C	0.784 ÷ 0.786	Ag	≤0.02 ppm	Fe	≤0.1 ppm	Sn	≤0.02 ppm
Boiling point	82.1 ÷ 82.6 ° C	Al	≤ 50 ppb	Ga	≤0.02 ppm	Sr	≤0.02 ppm
Water (K.F.)	≤500 ppm	As	≤0.01 ppm	In	≤0.02 ppm	Ti	≤0.05 ppm
Residue on evaporation	≤5 ppm	Au	≤0.05 ppm	K	≤0.1 ppm	Tl	≤0.05 ppm
Acidity (propionic ac.)	≤10 ppm	B	≤0.01 ppm	Li	≤0.02 ppm	V	≤0.05 ppm
Alcalinity (NH3)	≤2 ppm	Ba	≤0.1 ppm	Mg	≤0.1 ppm	Zn	≤ 10 ppb
Aldeides - ketones	≤50 ppm	Be	≤0.02 ppm	Mn	≤0.01 ppm	Zr	≤0.05 ppm

Code	Size	Packaging	Notes
415237	1 l	Glass bottle	
415235	2.5 l	Glass bottle	
415231	5 l	Metal tank	
415238	5 l	Plastic bottle	
415236	27 l	Metal drum	
415233	200 l	Metal drum	

Propan-2-ol > RS - MOS For electronic use

RS

Description	Clear liquid	Chloride	≤0.2 ppm	Ca	≤0.2 ppm	Na	≤0.5 ppm
Colour (APHA)	≤10	Phosphate	≤0.5 ppm	Cd	≤0.01 ppm	Ni	≤0.01 ppm
Identification	Positive	Heavy metals (Pb)	≤0.1 ppm	Co	≤0.01 ppm	Pb	≤0.01 ppm
Water miscibility	Conform	Subst. reducing KMnO4	≤2.5 ppm	Cr	≤0.01 ppm	Pt	≤0.05 ppm
Resistivity	≥10 Mohm.cm	Total sulphur	≤1 ppm	Cu	≤0.01 ppm	Sb	≤0.01 ppm
Assay (GLC)	≥99.7 %	Ag	≤0.02 ppm	Fe	≤0.1 ppm	Sn	≤0.02 ppm
Density at 20° C	0.784 ÷ 0.786	Al	≤0.05 ppm	Ga	≤0.02 ppm	Sr	≤0.02 ppm
Boiling point	82.1 ÷ 82.6 ° C	As	≤0.01 ppm	In	≤0.02 ppm	Ti	≤0.05 ppm
Water (K.F.)	≤500 ppm	Au	≤0.05 ppm	K	≤0.1 ppm	Tl	≤0.05 ppm
Residue on evaporation	≤5 ppm	B	≤0.01 ppm	Li	≤0.02 ppm	V	≤0.05 ppm
Acidity (propionic ac.)	≤10 ppm	Ba	≤0.1 ppm	Mg	≤0.1 ppm	Zn	≤0.01 ppm
Alcalinity (NH3)	≤2 ppm	Be	≤0.02 ppm	Mn	≤0.01 ppm	Zr	≤0.05 ppm
Aldeides - ketones	≤50 ppm	Bi	≤0.02 ppm	Mo	≤0.05 ppm		

Code	Size	Packaging	Notes
415162	1 l	Glass bottle	
415161	2.5 l	Glass bottle	

Propan-2-ol > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description ..... Clear liquid
Colour (APHA) ..... ≤ 10
Identification (I.R.)..... Conform
Water miscibility..... Conform
Density at 20° C ..... 0.785 ÷ 0.789
Refractive index at 20°C . 1.3766 ÷ 1.3786
Boiling point..... 82.1 ÷ 82.6 ° C
Water (K.F.) ..... ≤ 0.1 %

Residue on evaporation ..... ≤ 10 ppm
Acidity or alkalinity..... ≤ 0.0001 meq/g
Carbonyl compounds (acetone) ... ≤ 20 ppm
Carbonyl compounds (propionaldehyde) ≤ 20 ppm
Subst. reducing KMnO4..... ≤ 5 ppm
Heavy metals (Pb)..... ≤ 1 ppm
Al ..... ≤ 0.5 ppm

B..... ≤ 0.02 ppm
Ba..... ≤ 0.5 ppm
Ca..... ≤ 0.5 ppm
Cd..... ≤ 0.01 ppm
Co..... ≤ 0.01 ppm
Cr..... ≤ 0.01 ppm
Cu..... ≤ 0.01 ppm
Fe ..... ≤ 0.1 ppm

Mg ..... ≤ 0.1 ppm
Mn ..... ≤ 0.01 ppm
Ni..... ≤ 0.01 ppm
Pb..... ≤ 0.01 ppm
Zn ..... ≤ 0.01 ppm
Assay (GLC) ..... ≥ 99.9 %

Code	Size	Packaging	Notes
415154	1 l	Glass bottle	
524171	1 l	Spray bottle	
415156	2.5 l	Glass bottle	
415158	2.5 l	Plastic bottle	
415173	5 l	Plastic bottle	
529174	5 l	Plastic tank	
415153	10 l	Plastic tank	
415157	25 l	Aluminium can	
524170	25 l	Plastic tank	
415152	200 l	Metal drum	

Propan-2-ol > ERBApharm - According to pharmacopoeia : Ph.Eur.-USP-Ph.Franc.-BP

ERBApharm

Description ..... Clear colourless liquid
Identification ..... Positive
Appearance of solution ..... Conform Ph.Eur.
Acidity or alkalinity..... Conform Ph.Eur.
Acidity (ml NaOH 0,020N)..... ≤ 0.70 ml

Peroxide ..... Conform Ph.Eur.
Absorbance ..... Conform Ph.Eur.
Density at 20°C ..... 0.785 ÷ 0.789
Density at 25° C ..... 0.783 ÷ 0.787
Refractive index at 20°C..... 1.376 ÷ 1.378

Water (K.F.) ..... ≤0.1 %
Non volat.substances ..... ≤20 ppm
Assay (GLC) ..... ≥99.9 %
Benzene ..... ≤2 ppm
Related compounds..... ≤0.3 %

Limit of volatiles impurities Conform USP-NF
Any single impurity..... ≤ 0.1 %
Total impurities (GC) ..... ≤ 1.0 %
Origin (BSE/TSE)..... Synthesis
Residual solvents (Current ICH)..... Conform

Code	Size	Packaging	Notes
309501	1 l	Glass bottle	
309505	2.5 l	Glass bottle	
529165	5 l	Plastic tank	
309506	10 l	Plastic tank	
309504	25 l	Metal drum	
309507	25 l	Plastic tank	
309503	160 kg	Metal drum	
309500	200 l	Metal drum	
309509	200 l	Plastic drum	

Propan-2-ol > RE - Pure

RE

Description ..... Clear colourless liquid
Water (K.F.) ..... ≤ 2000 ppm

Residue on evaporation ..... ≤ 20 ppm
Refractive index at 20°C..... 1.375 ÷ 1.379

Acidity (acetic acid)..... ≤ 20 ppm
Colour ..... ≤ 10 APHA

Code	Size	Packaging	Notes
529093	5 l	Plastic tank	
529092	25 l	Plastic tank	
529091	200 l	Metal drum	

Propan-2-ol 70%

Propan-2-olo 70% • Propane-2-ol 70% • Propan-2-ol 70%

Synonym:
2-Propanol
Isopropanol

$CH_3CHOHCH_3$
Molecular Weight: 60,1
CAS: 67-63-0

Classification transport
ONU: 1219
Transport Hazard class: 3
Packing group II

Danger
H225-H319-H336
P210-P241-P264-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

Propan-2-ol 70% > RPE - For analysis - ACS

RPE

Description ..... Clear colourless liquid
Density at 20°C ..... 0.856 ÷ 0.862

Code	Size	Packaging	Notes
524161	25 l	Plastic tank	

Propan-2-ol 70% > ERBApharm - According to pharmacopoeia : Ph.Eur.-Microbiological tested

ERBApharm

Description ..... Clear colourless liquid
Density at 20°C ..... 0.856 - 0.862
Assay (alcohometric) at 20°C..... 69 - 71 %(m/m)

Related substances (CPG)..... ≤ 0.3 %
Absorbance .....Conform Ph.Eur.
Benzene .....≤ 2 ppm
Origin (BSE/TSE)..... Synthesis

Residual solvents (Current ICH).....Conform
Total aerobic microbial count (TAMC) .... ≤ 5 CFU/100ml
Total yeasts/mould count (TYMC)..... ≤ 5 CFU/100ml

Test of specified micro-organisms
Enterobacteriaceae..... Absent/100 ml
Staphylococcus aureus..... Absent/100 ml
Pseudomonas aeruginosa... Absent/100 ml

Code	Size	Packaging	Notes
524195	5 l	Plastic tank	

Propan-2-ol 70% > ERBApharm - Prepared from raw material according Ph.Eur

ERBApharm

Description ..... Clear colourless liquid
Density at 20°C ..... 0.856 ÷ 0.862
Assay (alcohometric) at 20°C..... 69 ÷ 71 %(m/m)

Code	Size	Packaging	Notes
524182	1 l	Plastic bottle	
524183	1 l	Spray bottle	6 units / box
524184	2.5 l	Plastic bottle	
524181	5 l	Plastic tank	

Propanedioic acid ▶ Malonic acid

1,2-Propanediol ▶ Propylene glycol

1,3-Propanediol

1,3-Propandiolo • 1,3-Propanediol • 1,3-Propanodiol

Synonym:
1,3-Dihydroxypropane
Trimethylene glycol

$CH_2OHCH_2CH_2OH$
Molecular Weight: 76,1
CAS: 504-63-2
EEC-N: 207-997-3

1,3-Propanediol > RE - Pure

RE

Appearance .....Clear and viscous liquid
Identification (IR)..... Conform
Refractive index at 20°C..... 1.438 - 1.442
Water content (K.F.) .....≤ 1000 mg/Kg
Colour .....≤ 15 Hazen
Assay (GC).....≥ 99.7 %

Code	Size	Packaging	Notes
P8040216	1 l	Glass bottle	
P8040222	5 l	Plastic tank	
P8040268	190 l	Metal drum	

1-Propanesulfonic acid sodium salt

Acido 1-propansolfonico sale sodico • Acide 1-propanesulfonique sel sodique • Acido 1-propanosulfónico sal sódica

$CH_3CH_2CH_2SO_3Na$
Molecular Weight: 146,14
CAS: 14533-63-2

1-Propanesulfonic acid sodium salt > RS - For ion pair chromatography

RS

Description ..... White crystalline powder
Water (K.F.) ..... ≤ 2.0 %
Assay ..... ≥ 98.0 %

Absorbance
At 200 nm ..... ≤ 0.05 AU
At 210 nm ..... ≤ 0.03 AU
At 220 nm ..... ≤ 0.02 AU
At 230 nm ..... ≤ 0.02 AU
At 250 nm ..... ≤ 0.01 AU
At 260 nm ..... ≤ 0.01 AU

Code	Size	Packaging	Notes
405901	25 g	Glass bottle	
405902	100 g	Plastic bottle	

1,2,3-Propanetriol ▶ Glycerol (30°Bé)

Propanoic acid ▶ Propionic acid

2-Propanone ▶ Acetone

Propionaldehyde

Aldeide propionica • Aldéhyde propionique • Aldehído propiónico

Synonym:
Propanal

CH_3CH_2CHO
Molecular Weight: 58,08
CAS: 123-38-6
EEC-N: 204-623-0

Classification transport
ONU: 1275
Transport Hazard class: 3
Packing group II

Danger
H225-H315-H319-H335
P210-P241-P264-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

Propionaldehyde > RE - Pure — RE

Description ..... Clear colourless liquid
Identification ..... Positive
Refractive index at 20°C. 1.3610 ÷ 1.3650
Assay (GLC) ..... ≥ 96.0 %

Code	Size	Packaging	Notes
310504	100 ml	Glass bottle	

Propionic acid

Acido propionico • Acide propionique • Acido propiónico

Synonym:
Propanoic acid
Propanyl acid

CH_3CH_2COOH
Molecular Weight: 74,08
CAS: 79-09-4
EEC-N: 201-176-3

Classification transport
ONU: 3463
Transport Hazard class: 8
Packing group II

Danger
H226-H314
P210-P241-P264-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

Propionic acid > RPE - For analysis — RPE

Description ..... Clear colourless liquid
Identification ..... Positive
Water miscibility ..... Conform
Alcohol miscibility ..... Conform
Density at 20° C ..... 0.992 ÷ 0.994
Refractive index at 20°C. 1.3864 ÷ 1.3884
Boiling point ..... 140 ÷ 142 ° C
Water (K.F.) ..... ≤0.25 %
Chloride ..... ≤5 ppm
Heavy metals (Pb) ..... ≤5 ppm
Residue on evaporation ..... ≤50 ppm
Sulphate ..... ≤10 ppm
Fe ..... ≤2 ppm
Assay (acidimetric) ..... ≥99.5 %

Code	Size	Packaging	Notes
409551	250 ml	Glass bottle	
409553	1 l	Glass bottle	

Propionic acid > RE - Pure — RE

Description ..... Yellow clear liquid
Identification ..... Positive
Density at 20° C ..... 0.988 ÷ 0.998
Refractive index at 20°C ..... 1.3854 ÷ 1.3894
Residue on evaporation ..... ≤ 100 ppm
Assay (acidimetric) ..... ≥98 %

Code	Size	Packaging	Notes
306254	1 l	Glass bottle	

Propionic acid calcium salt ▶ Calcium propionate

n-Propyl acetate

n-Propile acetato • n-Propyle acétate • n-Propil acetato

$CH_3COO(CH_2)_2CH_3$
Molecular Weight: 102,13
CAS: 109-60-4
EEC-N: 203-686-1

Classification transport
ONU: 1276
Transport Hazard class: 3
Packing group II

Danger
H225-H319-H336-HEU066
P210-P241-P264-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

n-Propyl acetate > RPE - For analysis — RPE

Description ..... Clear liquid
Identification ..... Positive
Colour ..... ≤ 10 Apha
Refractive index at 20°C ..... 1.3812 ÷ 1.3882
Water (K.F.) ..... ≤ 1000 ppm
Assay (GLC) ..... ≥ 99.5 %

Code	Size	Packaging	Notes
474807	1 l	Glass bottle	

n-Propyl alcohol ▶ Propan-1-ol

Propyl p-hydroxybenzoate

Propile p-ossibenzoato • Propyle p-oxybenzoate • Propil p-hidroxibenzoato

Synonym: *Propylparaben*

$HOC_6H_4COO(CH_2)_2CH_3$
Molecular Weight: 180,21
CAS: 94-13-3
EEC-N: 202-307-7

Warning
H315-H319-H335
P264-P271-P280-P304+P340-P305+P351+P338-P312a

Propyl p-hydroxybenzoate > ERBApharm - According to pharmacopoeia : DAB-BP-FU-NF-Ph.Eur.-Ph.Franc. ERBApharm

Description ..... White crystalline powder
Identification ..... Positive
Appearance of solution .....Conform Ph.Eur.
Acidity .....Conform Ph.Eur.
Related compounds.....Conform Ph.Eur.
Organic volatile impurities Conform USP-NF
Melting point..... 96 ÷ 99 °C
Sulphated ash ..... ≤ 0.1 %
Assay (saponification) .....98.0 ÷ 102.0 %
Origin (BSE/TSE)..... Synthesis

Code	Size	Packaging	Notes
363953	50 g	Glass bottle	
363956	500 g	Plastic bottle	

Propylene carbonate

Propilene carbonato • Propylène carbonate • Propileno carbonato

Synonym: *1,2-Propanediol cyclic carbonate*

$OCH(CH_3)CH_2OCO$
Molecular Weight: 102,09
CAS: 108-32-7
EEC-N: 203-572-1

Warning
H319
P264-P280i-P305+P351+P338-P337+P313

Propylene carbonate > RPE - For analysis RPE

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 20° C .....1.200 ÷ 1.206
Refractive index at 20°C.1.4199 ÷ 1.4219
Boiling point..... 241.0 ÷ 242.5 °C
Residue on ignition.....≤100 ppm
Assay (acidimetric) ..... ≥99 %

Code	Size	Packaging	Notes
474871	1 l	Glass bottle	

Propylene glycol

Glicol propilenico • Propylène glycol • Propilenglicol

Synonym: *1,2-Propanediol*

$CH_2OHCHOHCH_3$
Molecular Weight: 76,09
CAS: 57-55-6
EEC-N: 200-338-0

Propylene glycol > RPE - For analysis RPE

Description ..... Clear colourless liquid
Identification ..... Positive
Water miscibility.....Conform
Miscb. with Acetone ..... Complete
Alcohol miscibility..... Complete
Density at 20° C .....1.034 ÷ 1.038
Refractive index at 20°C.1.4309 ÷ 1.4339
Boiling point..... 188.0 ÷ 190.0 ° C
Water (K.F.) ..... ≤0.1 %
Acidity (acetic acid).....≤3 ppm
Alkalinity (NH4OH) .....≤0.85 ppm
Chloride.....≤20 ppm
Carbonyl Compounds (CO) .....≤100 ppm
Heavy metals (Pb).....≤2 ppm
Peroxides (H2O2) .....≤5 ppm
Residue on ignition.....≤50 ppm
Sulphate .....≤20 ppm
As .....≤2 ppm
Fe .....≤2 ppm
Assay (GLC) ..... ≥99.5 %

Code	Size	Packaging	Notes
454054	1 l	Glass bottle	
454053	2.5 l	Glass bottle	
454052	30 kg	Plastic drum	

Propylene glycol > ERBApharm - According to pharmacopoeia : Ph.Eur.-USP-FU-Ph.Franc.-BP ERBApharm

Description ..... Clear colourless liquid
Identification ..... Positive Ph. Eur.
Identification A (IR).....Conform USP
Identification B :
Diethylene glycol ..... ≤ 0.10 %
Ethylene glycol ..... ≤ 0.10 %
Identification C .Same RT to standard by GC USP
Acidity .....Conform Ph.Eur.
Reducing substances .....Conform Ph.Eur.
Oxidizing substances.....Conform Ph.Eur.
Density at 20° C .....1.035 - 1.040 Ph.Eur.
Density at 25°C .....1.035 - 1.037 USP
Boiling point..... 184 ÷ 189 °C
Refractive index at 20°C.....1.431 ÷ 1.433
Water (K.F.) ..... ≤0.2 %
Sulphated ash.....≤70 ppm
Chloride.....≤70 ppm
Heavy metals (Pb)..... ≤ 5 ppm (m/V)
Sulphate .....≤60 ppm
Assay (GLC) ..... ≥99.5 %

Code	Size	Packaging	Notes
346701	1 l	Glass bottle	
346703	2.5 l	Glass bottle	
346705	60 kg	Plastic tank	
346708	200 kg	Plastic drum	

Pumice stone
Pomice • Pierre ponce • Piedra pómez

CAS: 1332-09-8

Pumice stone > RPE - For analysis
RPE

Description .....Granuli grigiastri Identification ..... Positive

Code	Size	Packaging	Notes
469971	250 g	Plastic bottle	

Pyridine
Piridina • Pyridine • Piridina

N:CHCH:CHCH:CH
CAS: 110-86-1
EEC-N: 203-809-9

Classification transport
ONU: 1282
Transport Hazard class: 3
Packing group II

Danger
H225-H302-H312-H332
P210-P241-P264-P303+P361+P353-P304+P340-P403+P235

Pyridine > RS - Anhydrous - For analysis
RS

Water content (K.F.) .....≤ 200 mg/Kg Assay (GC) .....≥ 99.8 % Refractive index at 20°C ..... 1.508 - 1.512
Colour .....≤ 20 Hazen Non volatile residue .....≤ 10 mg/Kg

Code	Size	Packaging	Notes
P0671010	200 ml	Bottle with septum	
P06710S10	200 ml	Bottle with septum	Water content < 100 ppm
P0671016	1 l	Glass bottle	
P0671021	2.5 l	Glass bottle	

Pyridine > RS - For peptide synthesis
RS

Water content (K.F.) .....≤ 100 mg/Kg Colour ..... ≤ 10 Hazen Kaiser Test .....Conform Assay (GC) ..... ≥ 99.5 %

Code	Size	Packaging	Notes
P0673516	1 l	Glass bottle	
P0673521	2.5 l	Glass bottle	

Pyridine > RS - For potentiometry
RS

Water content (K.F.) .....≤ 500 mg/Kg Tetrabutylamm.hydroxyde test..... Conform Non volatile residue .....≤ 20 mg/Kg
Colour .....≤ 10 Hazen Assay (GC) .....≥ 99.5 %

Code	Size	Packaging	Notes
P06725P16	1 l	Glass bottle	

Pyridine > RS - For titration according to Karl Fischer
RS

Description ..... Clear colourless liquid Density at 20° C .....0.979 ÷ 0.985 Boiling point..... 114.2 ÷ 116.2 ° C Assay (GLC) ..... ≥99.6 %
Identification ..... Positive Refractive index at 20°C. 1.5050 ÷ 1.5140 Water (K.F.) .....≤500 ppm

Code	Size	Packaging	Notes
469652	1 l	Glass bottle	

Pyridine > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP
RPE

Description ..... Clear colourless liquid Boiling point..... 114.2 - 116.2 ° C Residue on evaporation .....≤20 ppm Sulphate .....≤10 ppm
Identification ..... Positive Subst. reducing KMnO4.....Conform Ammonia.....≤20 ppm Cu.....≤5 ppm
Water solubility.....Conform Water (K.F.) ..... ≤0.1 % Chloride.....≤10 ppm Assay (GLC) ..... ≥99.0 %

Code	Size	Packaging	Notes
469622	500 ml	Glass bottle	
469629	1 l	Glass bottle	
469624	2.5 l	Glass bottle	
469626	20 kg	Plastic drum	
469621	25 kg	Metal drum	
469623	200 l	Metal drum	

Pyridine > RE - Pure

RE

Description ..... Clear colourless liquid or yellowish
Colour ..... ≤ 20 APHA
Identification ..... Positive
Density at 20° C ..... 0.979 ÷ 0.985
Refractive index at 20°C ..... 1.5055 ÷ 1.5135
Boiling point ..... 113.7 ÷ 116.7 °C
Water (K.F.) ..... ≤0.1 %
Residue on evaporation ..... ≤50 ppm
Assay (GLC) ..... ≥99.8 %

Code	Size	Packaging	Notes
358752	1 l	Glass bottle	
358754	25 kg	Metal drum	
528257	200 l	Metal drum	

Pyridine-d5

Piridina-d5 • Pyridine-d5 • Piridina-d5

Synonym:
Pentadeuteropyridine

C_5D_5N
Molecular Weight: 84,14
CAS: 7291-22-7
EEC-N: 230-720-2

Classification transport
ONU: 1282
Transport Hazard class: 3
Packing group II

Danger
H225-H302-H312-H332
P210-P241-P264-P303+P361+P353-P304+P340-P403+P235

Pyridine-d5 > RS - For NMR - min 99.5%

RS

Code	Size	Packaging	Notes
P5369A	2 x 0.75 ml	Glass ampoule	
P5364A	10 ml	Glass ampoule	

Pyridine-d5 > RS - For NMR - min 99.95%

RS

Code	Size	Packaging	Notes
P5370	2 x 0.6 ml	Glass ampoule	

Pyridoxine dipalmitate

Piridossina dipalmitato • Pyridoxine dipalmitate • Piridoxina dipalmitato

$C_{40}H_{71}NO_5$
Molecular Weight: 645,98
CAS: 635-38-1

Pyridoxine dipalmitate > RE - Pure

RE

Code	Size	Packaging	Notes
389901	1 kg	Plastic jar	

1-(2-Pyridylazo)-2-naphthol

1-(2-Piridile-azo)-2-naftolo • 1-(2-Pyridyl-azo)-2-napthol • 1-(2-Piridilazo)-2-naftol

Synonym:
PAN

N:CHCH:CHCH:CN:$NC_{10}H_6OH$
Molecular Weight: 249,27
CAS: 85-85-8
EEC-N: 201-637-9

1-(2-Pyridylazo)-2-naphthol > RPE - For analysis

RPE

Description ..... Orange red powder
Identification ..... Positive
E (1%/1cm) a 216nm (in HCl !N) ..... ≥ 1400
Sulphated ash ..... ≤ 0.3 %
Assay ..... ≥ 97.5 %

Code	Size	Packaging	Notes
469592	5 g	Glass bottle	

Complexometric indicator. For extraction and spectrophotometric determination of the transition metals

Pyrocatechol
Pirocatecolo • Pyrocatéchol • Pirocatequina

Synonym:
1,2-Benzenediol
Catechol

$1,2\text{-}(OH)_2C_6H_4$
Molecular Weight: 110,11
CAS: 120-80-9
EEC-N: 204-427-5

Classification transport
ONU: 2811
Transport Hazard class: 6.1
Packing group III

Warning
H302-H312-H315-H319
P264-P280h-P305+P351+P338-P330-P332+P313-P337+P313

Pyrocatechol > RPE - For analysis
RPE

Description .....Grey-brown flakes Identification .....Positive Melting point.....103 ÷ 105 ° C Assay (GLC) ..... ≥ 99.0 %

Code	Size	Packaging	Notes
469753	50 g	Glass bottle	

Pyrocatechol violet
Violetto pirocatechina • Violet de pyrocatéchol • Violeta de pirocatequina

Synonym:
Pyrocatecholsulfonphthalein

$C_{19}H_{14}O_7S$
Molecular Weight: 386,39
CAS: 115-41-3
EEC-N: 204-088-3

Pyrocatechol violet > RPE - For analysis
RPE

Description .....Brown crystalline powder Identification ..... Positive Sensitivity as indicat. ..... Conform

Code	Size	Packaging	Notes
491871	1 g	Glass bottle	
491872	25 g	Glass bottle	

Complexometric indicator

Pyrogallol
Pirogallolo • Acide pyrogallique • Pirogalol

Synonym:
1,2,3-Trihydroxybenzene

$1,2,3\text{-}(OH)_3C_6H_3$
Molecular Weight: 126,11
CAS: 87-66-1
EEC-N: 201-762-9

Warning
H302-H312-H332-H341-H412
P264-P273-P271-P304+P340-P308+P313-P330

Pyrogallol > RPE - For analysis - ACS - Reag. Ph.Eur.
RPE

Description ..... White crystalline powder Melting point.....131 ÷ 135 °C Fe .....≤10 ppm Sulphate .....≤50 ppm
Identification (I.R.)..... Positive Sulphated ash ..... ≤ 0.005 % Heavy metals (Pb).....≤5 ppm Chloride.....≤10 ppm

Code	Size	Packaging	Notes
409435	250 g	Plastic bottle	
409437	1 kg	Plastic bottle	

Pyrogallol > RE - Pure
RE

Description .....White crystalline powder Melting point..... 131 ÷ 135 °C Residue on ignition.....≤500 ppm
Identification (I.R.)..... Conform Heavy metals (Pb).....≤10 ppm Fe .....≤10 ppm

Code	Size	Packaging	Notes
306111	5 kg	Plastic jar	

Pyrrolidine dithiocarbamic acid ammonium salt

Acido pirrolidinditiocarbammico sale ammonico • Acide pyrrolidinedithiocarboxylique-1,sel ammoniacal • Acido pirrolidinditiocarbámico sal de amonio

Synonym:
Ammonium pyrrolidinedithiocarbamate

$CH_2CH_2CH_2CH_2NCSSNH_4$
Molecular Weight: 164,29
CAS: 5108-96-3
EEC-N: 225-834-4

Pyrrolidine dithiocarbamic acid ammonium salt > RPE - For analysis - Reag. Ph.Eur.

RPE

Description ..... White yellowish powder Identification ..... Positive Assay ..... ≥ 99 % (NH3)

Code	Size	Packaging	Notes
409471	10 g	Glass bottle	

Quartz granular
Quarzo granuli • Quartz granulaire • Cuarzo granulado

Synonym:
Silica

SiO_2
Molecular Weight: 60,09
CAS: 14808-60-7
EEC-N: 238-878-4

Warning
H373
P260-P314-P501a

Quartz granular > RE - Pure
RE

Description .....White granules
Identification ..... Positive

Code	Size	Packaging	Notes
364011	100 g	Glass bottle	

Quinaldine red
Rosso chinaldina • Rouge de quinaldine • Rojo de quinaldina

Synonym:
2-(4-Dimethylaminostyryl)-1-ethylquinolinium iodide

$C_{21}H_{23}IN_2$
Molecular Weight: 430,33
CAS: 117-92-0
EEC-N: 204-221-5

Quinaldine red > RPE - For analysis
RPE

Description .....Dark green powder
Identification ..... Positive
Non acq.media ind.sens. ..... Conform
Loss on drying .....≤5 %
Colour change.....Incolore - rosso

Code	Size	Packaging	Notes
476687	1 g	Glass bottle	
476688	25 g	Glass bottle	

Acid-base indicator (pH 1.4 ÷ 3.2)

Quinidine sulfate
Chinidina solfato • Quinidine sulfate • Quinidina sulfato

$(C_{20}H_{24}N_2O_2)_2.H_2SO_4.2H_2O$
Molecular Weight: 782,96
CAS: 6591-63-5
EEC-N: 200-046-3

Warning
H302
P264-P270-P330-P301+P312a-P501a

Quinidine sulfate > RPE - For analysis
RPE

Description ..... White crystalline powder
Identification ..... Positive
Ready carbonizable substances.....Conform
pH sol. 1% at 25° C .....6.0 ÷ 6.8
Specific optical rotation+275.5 ÷ +280.5 °
Loss on drying .....4.2 ÷ 5.0 %
Chloride.....≤50 ppm
Alchool/Chlorof.isolub. .....≤500 ppm
Heavy metals (Pb).....≤10 ppm
Residue on ignition.....≤500 ppm
Fe .....≤10 ppm
Assay (non-aqueos medium)..... ≥99 %

Code	Size	Packaging	Notes
436701	10 g	Glass bottle	

Quinoline
Chinolina • Quinoléine • Quinoleína

Synonym:
1-Benzazine

C_9H_7N
Molecular Weight: 129,16
CAS: 91-22-5
EEC-N: 202-051-6

Classification transport
ONU: 2656
Transport Hazard class: 6.1
Packing group III

Danger
H302-H312-H315-H319-H341-H350-H411-HA26
P264-P273-P305+P351+P338-P308+P313-P330-P332+P313

Quinoline > RE - Pure
RE

Description .....Yellow-brown clear liquid
Identification .....Positive
Density at 20° C .....1.088 ÷ 1.100
Refractive index at 20°C.1.6218 ÷ 1.6318
Boiling point.....235.6 ÷ 238.6 °C
Residue on ignition..... ≤0.1 %
Assay (GLC) ..... ≥95 %

Code	Size	Packaging	Notes
333701	100 ml	Glass bottle	
333707	1 l	Glass bottle	

Quinone ▶ p-Benzoquinone

Raffinose
Raffinosio • Raffinose • Rafinosa

$C_{18}H_{32}O_{16}.5H_2O$
Molecular Weight: 594,51
CAS: 17629-30-0
EEC-N: 208-146-9

Raffinose > RPE - For analysis
RPE

Description ..... White crystalline powder	Water (K.F.) ..... ≤15.5 %	Total nitrogen ..... ≤100 ppm	Sulphate ..... ≤50 ppm
Identification ..... Positive	Residue on ignition ..... ≤300 ppm	Chloride ..... ≤20 ppm	Red.ing sugars(Glucose) ..... ≤0.1 %
Melting point ..... 79.0 ÷ 81.0 °C	Acidity (acetic acid) ..... ≤50 ppm	Water-insoluble matter ..... ≤50 ppm	As ..... ≤2 ppm
Specific optical rotation +104.5 ÷ +105.9 °	Starch and Dextrins ..... ≤5 ppm	Heavy metals (Pb) ..... ≤10 ppm	Fe ..... ≤10 ppm

Code	Size	Packaging	Notes
475132	25 g	Glass bottle	

Raney's alloy
Lega Raney • Alliage de Raney • Aleación según Raney

CAS: 12003-78-0

Classification transport
ONU: 3089
Transport Hazard class: 4.1
Packing group III

Danger
H228-H260-H317-H351-H372
P210-P223-P241-P264-P231+P232-P280

Raney's alloy > RPE - For analysis
RPE

Description ..... Greyish metallic powder	Identification ..... Positive	Al ..... ~50 %	Ni ..... ~50 %

Code	Size	Packaging	Notes
457675	250 g	Plastic bottle	

Reagent for lipolysis
Reattivo unico per lipolisi • Réactif unique pour lipolyse • Reactivo unico para lipolisi

HEU210

Reagent for lipolysis > RPE - For analysis
RPE

Density at 20°C ..... 1.151 ÷ 1.161 pH at 20°C ..... 7.9 ÷ 8.3

Code	Size	Packaging	Notes
524910	2.5 l	Glass bottle	
524912	5 l	Plastic tank	

Composition : Reagent for copper : 90.9% HCl 0,7N: 4.55% EDTA(8% w/v): 4.55%

Reagent TAN
Reattivo TAN • Réactif TAN • Reactivo TAN

Classification transport
ONU: 1993
Transport Hazard class: 3
Packing group II

Danger
H225-H315-H319-H361d-H336-H373
P210-P241-P264-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

Reagent TAN > RS - For analysis
RS

Water content (K.F.) ..... 4500 - 5500 mg/Kg Free acid (as CH3COOH) ..... ≤ 5 mg/Kg Refractive index at 20°C ..... 1.433 - 1.437

Code	Size	Packaging	Notes
PS0327/21	2.5 l	Glass bottle	
PS0327/29	5 l	Plastic tank	
PS0327/39	10 l	Plastic tank	

Composition : 495 ml propanol-2, 500ml Toluene, 5 ml water

Reagent TBN
Reattivo TBN • Réactif TBN • Reactivo TBN

Classification transport
ONU: 2924
Transport Hazard class: 3
Packing group III

Danger
H226-H332-H314-H411
P210-P241-P264-P273-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

Reagent TBN > RS - For analysis
RS

Refractive index at 20°C..... 1.464 - 1.468

Code	Size	Packaging	Notes
PS0423/21	2.5 l	Glass bottle	
PS0423/29	5 l	Plastic tank	
PS0423/39	10 l	Plastic tank	

Composition : 333 ml acetic acid, 667 ml chlorobenzene. According to ASTM D2896

Red for oils O
Rosso per olio O • Rouge pour l'huile O • Rojo para aceites O

Synonym:
Oil Red O
1-[2,5-Dimethyl-4-(2,5-dimethylphenylazo) phenylazo]-2-naphthol

$C_{26}H_{24}N_4O$
Molecular Weight: 408,5
CAS: 1320-06-5
EEC-N: 215-295-3

Red for oils O > RPE - For analysis - C.I. 26125
RPE

Description .....Red brick powder Identification ..... Positive

Code	Size	Packaging	Notes
476961	25 g	Glass bottle	

Dye for lipoprotein in acetate cellulose capsule

Redox solution 468 mV at 25°C
Soluzione Redox 468 mV a 25°C • Solution réductice 468 mV à 25°C • Solución Redox 468 mV a 25°C

Classification transport
ONU: 3264
Transport Hazard class: 8
Packing group III

Warning
H315-H319
P264-P280-P305+P351+P338-P332+P313-P337+P313-P302+P352a

Redox solution 468 mV at 25°C > RS - For electrochemistry
RS

Description .....Liquido limpido verde-marrone chiaro Identification ..... Positive Redox potential at 25°C..... 458 ÷ 478 mV

Code	Size	Packaging	Notes
478052	500 ml	Plastic bottle	

Redox solution 220 mV at 25°C
Soluzione Redox 220 mV a 25°C • Solution réductice 220 mV à 25°C • Solución Redox 220 mV a 20°C

Redox solution 220 mV at 25°C > RS - For electrochemistry
RS

Description ..... Yellow clear liquid Identification ..... Positive pH at 25°C .....6.95 ÷ 7.05 Redox potential at 25°C.....215 ÷ 225 mV

Code	Size	Packaging	Notes
478032	500 ml	Glass bottle	

Refractive Index standards

Indice di rifrazione standard • Etalons d'indice de réfraction • Patrones de índice de refracción

Refractive Index standards > RS - For calibration

RS

Code	Size	Packaging	Notes
540101	15 ml	Bottle	1.34325 at 20°C
540102	15 ml	Bottle	1.34782 at 20°C
540103	15 ml	Bottle	1.35171 at 20°C
540104	15 ml	Bottle	1.37233 at 20°C
540105	15 ml	Bottle	1.38115 at 20°C
540106	15 ml	Bottle	1.40978 at 20°C
540107	15 ml	Bottle	1.42009 at 20°C
540108	15 ml	Bottle	1.44193 at 20°C

Store between 2 - 8 °C

Reinecke salt

Sale di Reinecke • Sel de Reinecke • Sal de Reinecke

Synonym:
Ammonium tetrarhodanatodiamminechromate(III)

$NH_4[Cr(NH_3)_2(SCN)_4].H_2O$
Molecular Weight: 354,44
CAS: 13573-16-5
EEC-N: 237-003-3

Warning
H302-H312-H332-HEU032
P264-P271-P261-P280h-P304+P340-P330

Reinecke salt > RPE - For analysis - ACS

RPE

Description ..... Dark red crystalline powder
Identification ..... Positive
Diluted HCl-ins. matter ..... ≤500 ppm
Sens.(Choline chloride) ..... ≥0.5 mg/ml
Assay (gravimetric) .....≥93.0 %

Code	Size	Packaging	Notes
420672	25 g	Glass bottle	

Resorcinol

Resorcina • Résorcine • Resorcina

Synonym:
1,3-Benzenediol

$1,3\text{-}(OH)_2C_6H_4$
Molecular Weight: 110,11
CAS: 108-46-3
EEC-N: 203-585-2

Classification transport
ONU: 2876
Transport Hazard class: 6.1
Packing group III

Warning
H302-H315-H319-H400
P264-P273-P305+P351+P338-P330-P332+P313-P337+P313

Resorcinol > RPE - For analysis

RPE

Description .....White flakes
Identification ..... Positive
Melting point..... 109 ÷ 111 ° C
Residue on ignition.....≤ 0.1 %
Assay (GLC) .....≥ 97.5 %

Code	Size	Packaging	Notes
476565	250 g	Plastic bottle	

L(+)Rhamnose

L(+)Ramnosio • L(+)Rhamnose • L(+)Ramnosa

Synonym:
6-Deoxy-L-mannose

$C_6H_{12}O_5.H_2O$
Molecular Weight: 182,17
CAS: 10030-85-0
EEC-N: 222-793-4

L(+)Rhamnose > RPE - For analysis

RPE

Description ..... White crystalline powder
Identification .....Positive
Melting point.....89 ÷ 91 °C
Specific optical rotation..... +7.5 ÷ +8.5 °
Loss on drying .....9.8 ÷ 10.2 %
Residue on ignition..... ≤0.1 %
Chloride.....≤50 ppm
Sulphate.....≤50 ppm
As .....≤0.1 ppm
Cd.....≤5 ppm
Co.....≤5 ppm
Cu.....≤5 ppm
Fe .....≤5 ppm
Ni.....≤5 ppm
Pb .....≤5 ppm
Zn .....≤5 ppm
Assay ..... ≥99 %

Code	Size	Packaging	Notes
476312	25 g	Glass bottle	

Rhenium standard solution
Renio standard soluzione • Rhénium solution standard • Renio, solución patrón

Classification transport
ONU: 3264

Rhenium standard solution > RS - Standard solution for ICP-MS
RS

Code	Size	Packaging	Notes
505802	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505805	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Rhenium standard solution > RS - Standard solution for AAS
RS

Code	Size	Packaging	Notes
507754	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
507513	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Rhodium standard solution
Rodio standard soluzione • Rhodium solution standard • Rodio, solución patrón

Classification transport
ONU: 1760
Transport Hazard class: 8
Packing group III

Rhodium standard solution > RS - Standard solution for ICP-MS
RS

Code	Size	Packaging	Notes
505807	100 ml	Plastic bottle	conc. 10 ppm Matrix : Hydrochloric acid
505808	100 ml	Plastic bottle	conc. 100 ppm Matrix : Hydrochloric acid
505809	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Rhodium standard solution > RS - Standard solution for ICP
RS

Code	Size	Packaging	Notes
503861	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
503865	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrochloric acid
503863	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
503867	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrochloric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Rhodol solution
Rhodol soluzione • Solution Rhodol • Rhodol solución

H412-HEU208
P273-P501a

Rhodol solution > RS - For analysis
RS

Refractive index at 20°C..... 1.342 - 1.346

Code	Size	Packaging	Notes
PS0158/15	1 l	Bottle	
PS0158/29	5 l	Plastic tank	
PS0158/41	10 l	Plastic tank	

Riboflavine
Riboflavina • Riboflavine • Riboflavina

Synonym:
Vitamin B2

$C_{17}H_{20}O_6N_4$
Molecular Weight: 376,37
CAS: 83-88-5
EEC-N: 201-507-1

Riboflavine > RE - Pure

RE

Description ..... Yellow-orange powder
Identification ..... Positive
Absorbance ..... Conform
Pot. rot. spec. a20°C (c=0.5;NaOH 0.05N) .....-115 ÷-135 ° s.s.
Loss on drying .....≤ 1.5 %
Sulphated ash .....≤ 0.1 %
Lumiflavine (TLC).....≤ 0.025 %
Lumiflavine (spectr.) .....≤ 0.025 A
Titolo (fluorimetrico)..... 98.0 ÷ 102.0 % s.s.

Code	Size	Packaging	Notes
389511	10 g	Glass bottle	

D(-)Ribose
D(-)Ribosio • D(-)Ribose • D(-)Ribosa

$C_5H_{10}O_5$
Molecular Weight: 150,13
CAS: 50-69-1
EEC-N: 200-059-4

D(-)Ribose > RPE - For analysis

RPE

Description ..... Yellowish powder
Identification ..... Positive
Loss on drying ..... ≤ 1 %
Potere rotat. spec. a 20°C (C=4; H2O)-19.2 ÷-20.8 °
Separazione (TLC) ..... ≥ 99.50 %
Heavy metals (Pb).....≤ 10 ppm
Residue on ignition..... ≤ 0.1 %

Code	Size	Packaging	Notes
476608	5 g	Glass bottle	
476609	25 g	Glass bottle	

Rice starch
Amido di riso • Amidon de riz • Almidón de arroz

$(C_6H_{10}O_5)n$
CAS: 9005-25-8
EEC-N: 232-679-6

Rice starch > ERBApharm - According to pharmacopoeia : BP-FU-Ph.Eur.-Ph.Franc.

ERBApharm

Description ..... White powder
Identification ..... Positive
Microscopic test.....Conform Ph.Eur.
Foreingn cellular elem. .....Conform Ph.Eur.
Loss on drying ..... ≤ 15.0 %
Sulphated ash..... ≤ 0.6 %
pH (sosp. 20%) .....5.0 ÷ 8.0
Fe .....≤ 10 ppm
Zolfo biossido.....≤ 50 ppm
Oxidizing substances..... ≤ 0.002 %
Microbial tests
TAMC ..... ≤ 1000 CFU/g
TYMC ..... ≤ 100 CFU/g
Escherichia coli .....Absent Ph.Eur.
Salmonella..... Absent Ph. Eur.

Code	Size	Packaging	Notes
313107	1 kg	Plastic bottle	
313108	2.5 kg	Plastic jar	
313109	5 kg	Plastic jar	
313102	25 kg	Fibre drum	
313104	50 kg	Fibre drum	

Rosolic acid

Acido p-rosolico • Acide p-rosolique • Acido p-rosólico

Synonym:
4-[Bis(4-hydroxyphenyl)methylene]-2,5-cyclohexa-dienone
Aurin

$C_{19}H_{14}O_3$
Molecular Weight: 290,32
CAS: 603-45-2
EEC-N: 210-041-8

Rosolic acid > RPE - For analysis - C.I. 43800

RPE

Description .....Red - brown crystalline powder
Identification ..... Positive
Loss on drying .....≤ 10 %
Colour change.....yellow red
pH range ..... 6.2 ÷ 8.2

Code	Size	Packaging	Notes
409702	25 g	Glass bottle	

Dye for microscopy (bacteriology). Indicator acid - base (pH 5.0 ÷ 6.8)

Rubidium standard solution

Rubidio standard soluzione • Rubidium solution standard • Rubidio, solución patrón

Classification transport
ONU: 3264
Transport Hazard class: 8
Packing group III

Rubidium standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505792	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505795	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Rubidium standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
503841	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503845	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
503843	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503847	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Rubidium standard solution > RS - Standard solution for AAS

RS

Code	Size	Packaging	Notes
507755	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
507514	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Ruthenium standard solution

Rutenio standard soluzione • Ruthénium solution standard • Rutenio, solución patrón

Classification transport
ONU: 3264
Transport Hazard class: 8
Packing group III

Danger
H314
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Ruthenium standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505812	100 ml	Plastic bottle	conc. 10 ppm Matrix : Hydrochloric acid
505815	100 ml	Plastic bottle	conc. 100 ppm Matrix : Hydrochloric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Ruthenium standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
503871	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
503875	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrochloric acid
503873	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
503877	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrochloric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Safranine T

Safranina T • Safranine T • Safranina T

Synonym:
Basic Red 2

$C_{20}H_{19}ClN_4$
Molecular Weight: 350,85
CAS: 477-73-6
EEC-N: 207-518-8

Warning
H302-H319
P264-P280-P305+P351+P338-P330-P337+P313-P301+P312a

Safranine T > RS - For microscopy - C.I. 50420

RS

Description ..... Red brown powder Identification ..... Positive

Code	Size	Packaging	Notes
477232	25 g	Glass bottle	

Dye for bacteriology, cytology

Safranine T hydroalcoholic solution for Gram-Hucker Kit

Safranina T soluzione idroalcolica per kit Gram-Hucker •
Safranine T solution hydroalcoolique pour kit de Gram-Hucker •
Safranina T solución hidroalcohólica para kit Gram-Hucker

Synonym:
Basic Red 2

$C_{20}H_{19}ClN_4$
Molecular Weight: 350,85
CAS: 477-73-6

Warning
H319
P264-P280-P305+P351+P338-P337+P313

Safranine T hydroalcoholic solution for Gram-Hucker Kit > RS - For bacteriology

RS

Description ..... Red clear liquid Identification ..... Positive

Code	Size	Packaging	Notes
477241	250 ml	Glass bottle	

CE IVD

Salicylaldehyde azine

Salicilaldeide azina • Salicylaldéhyde-azine • Salicilaldehido azina

Salicylaldehyde azine > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611075500	100 ml	Glass bottle	Ref Ph.Eur 1075500

Salicylic acid

Acido salicilico • Acide salicylique • Acido salicílico

Synonym:
2-Hydroxybenzoic acid

$2\text{-}HOC_6H_4COOH$
Molecular Weight: 138,12
CAS: 69-72-7
EEC-N: 200-712-3

Danger
H302-H315-H318-H335
P264-P271-P304+P340-P305+P351+P338-P330-P332+P313

Salicylic acid > RPE - For analysis - ACS

RPE

Description ..... White crystalline powder
Identification ..... Positive
Ready carbonizable substances..... Conform
Melting point..... 158.0 ÷ 161.0 °C
Chloride..... ≤10 ppm
Heavy metals (Pb)..... ≤5 ppm
Residue on ignition..... ≤100 ppm
Sulphate..... ≤30 ppm
Fe ..... ≤2 ppm
Assay (HPLC) ..... ≥99.0 %

Code	Size	Packaging	Notes
409773	100 g	Plastic bottle	
409777	1 kg	Plastic jar	

Salicylic acid > ERBApharm - According to pharmacopoeia : FU

ERBApharm

Description ..... White crystalline powder
Identification ..... Positive
Appearance of solution ..... Conform F.U.
Related substances (HPLC) ..... Conform
Melting point..... 158.0 ÷ 161.0 °C
Loss on drying ..... ≤0.5 %
Sulphated ash..... ≤0.1 %
Chloride..... ≤100 ppm
Sulphate..... ≤200 ppm
Heavy metals (Pb)..... ≤20 ppm
Assay (acidimetric) ..... 99.0 ÷ 100.5 % s.s.
Origin (BSE/TSE)..... Synthesis
Residual solvents (Current ICH)..... Conform

Code	Size	Packaging	Notes
306381	1 kg	Plastic bottle	

Salicylic acid > ERBApharm - According to pharmacopoeia : Ph.Eur.-USP-FU

ERBApharm

Description ..... White crystalline powder
Identification ..... Positive
Appearance of solution .....Conform Ph.Eur.
Related compounds..... Conform PhEur
Melting point..... 158.0 ÷ 161.0 ° C
Loss on drying ..... ≤0.5 %
Sulphated ash.....≤500 ppm
Chloride.....≤100 ppm
Sulphate.....≤200 ppm
Heavy metals (Pb).....≤20 ppm
Assay (acidimetric) .....99.5 ÷ 100.5 % s.s.
Origin (BSE/TSE)..... Synthesis
Residual solvents (Current ICH).....Conform

Code	Size	Packaging	Notes
306377	1 kg	Plastic bottle	

Salmiac ▶ Ammonium chloride

Samarium standard solution

Samario standard soluzione • Samarium solution standard • Samario, solución patrón

Classification transport
ONU: 3264
Transport Hazard class: 8
Packing group III

Samarium standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505852	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505855	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Samarium standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
503931	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503935	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
503933	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503937	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Samarium standard solution > RS - Standard solution for AAS

RS

Code	Size	Packaging	Notes
507756	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
507515	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Sand of Fontainebleau

Sabbia di Fontainebleau • Sable de Fontainebleau • Arena de Fontainebleau

Synonym:
Silica

SiO_2
Molecular Weight: 60,09
CAS: 14808-60-7
EEC-N: 238-878-4

Sand of Fontainebleau > RS - For agroalimentary analysis

RS

Density at 20°C ..... 2 ÷ 3
Granulometry ..... 180 ÷ 500 micrometer

Code	Size	Packaging	Notes
502064	1 kg	Plastic bottle	
502063	5 kg	Plastic bucket	
502062	25 kg	Plastic bucket	

Sand purified
Sabbia purificata • Sable purifié • Arena purificada

Synonym:
Silica

SiO_2
Molecular Weight: 60,09
CAS: 14808-60-7
EEC-N: 238-878-4

Sand purified > RS - For flash chromatography
RS

Description ..... Hazel granules Identification ..... Positive Particle size (40ö100)..... Conform mesh

Code	Size	Packaging	Notes
477153	1 kg	Plastic bottle	

Saponin
Saponina • Saponine • Saponina

CAS: 8047-15-2
EEC-N: 232-462-6

Warning
H335
P271-P261-P304+P340-P312a-P403+P233-P405

Saponin > RE - Pure
RE

Description ..... Yellow powder Foaming power ..... Conform Water-insoluble matter ..... ≤0.1 % pH 1% at 25°C ..... 5.0 - 6.5
Identification ..... Positive Loss on drying ..... ≤5 % Solubility in water ..... Pass test

Code	Size	Packaging	Notes
365755	250 g	Plastic bottle	
365757	1 kg	Plastic bottle	
365758	5 kg	Plastic jar	

Saybolt Colour Standards
Standard del colore Saybolt • Etalons couleurs Saybolt • Patrones de color Saybolt

Saybolt Colour Standards > RS - For calibration
RS

Code	Size	Packaging	Notes
540709	100 ml	Glass bottle	-15
540710	100 ml	Glass bottle	+0
540711	100 ml	Glass bottle	+12
540712	100 ml	Glass bottle	+15
540713	100 ml	Glass bottle	+19
540714	100 ml	Glass bottle	+25
540715	100 ml	Glass bottle	+30

Scandium standard solution
Scandio standard soluzione • Scandium solution standard • Escandio, solución patrón

Classification transport
ONU: 3264
Transport Hazard class: 8
Packing group III

Scandium standard solution > RS - Standard solution for ICP-MS
RS

Code	Size	Packaging	Notes
505837	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505838	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid
505839	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Scandium standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
503901	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503905	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
503903	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503907	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Scandium standard solution > RS - Standard solution for AAS

RS

Code	Size	Packaging	Notes
507757	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
507516	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Schiff's reagent for Aldehydes

Schiff reattivo soluzione per Aldedi • Réactif de Schiff pour Aldéhydes • Schiff reactivo solución para Aldehídos

Danger
H314-H319
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Schiff's reagent for Aldehydes > RS - For analysis

RS

Description ..... Clear colouless or light yellow liquid Identification ..... Positive

Code	Size	Packaging	Notes
477601	500 ml	Glass bottle	

Schiff's reagent for PAS coloration

Schiff reattivo per colorazione PAS • Réactif de Schiff pour PAS coloration • Schiff reactivo solución para PAS coloratión

Warning
H319
P264-P280-P305+P351+P338-P337+P313

Schiff's reagent for PAS coloration > RS - For histology

RS

Description ..... Yellow clear liquid Identification ..... Positive

Code	Size	Packaging	Notes
477591	500 ml	Glass bottle	
477592	6 x 500 ml	Glass bottle	

CE IVD

Sebacic acid

Acido sebacico • Acide sébacique • Acido sebácico

Synonym:
Decanedioic acid

$HOOC(CH_2)_8COOH$
Molecular Weight: 202,25
CAS: 111-20-6
EEC-N: 203-845-5

Sebacic acid > RE - Pure

RE

Description ..... White granular powder Melting point..... 132.5 ÷ 136.5 °C Assay (GLC) .....≥94 %
Identification ..... Positive Residue on ignition.....≤0.1 %

Code	Size	Packaging	Notes
409875	250 g	Plastic bottle	

Selenic mixture
Miscela selenica • Mélange sélénique • Mezcla selenica

H412
P273-P501a

Selenic mixture > RS - For nitrogen detection according to Wieninger
RS

Description .....Pads or dark gray powder Identification ..... Positive

Code	Size	Packaging	Notes
463421	250 g	Plastic bottle	
463422	1 kg	Plastic bottle	

Selenium standard solution
Selenio standard soluzione • Sélénium solution standard • Selenio, solución patrón

Classification transport
ONU: 3264
Transport Hazard class: 8
Packing group II

Danger
H290-H314-H335
P264-P271-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Selenium standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2
RS

Code	Size	Packaging	Notes
615002501	100 ml	Plastic bottle	A 1 ppm solution Ref Ph.Eur 5002501
615002500	1 l	Plastic bottle	A 100 ppm solution Ref Ph.Eur 5002500

Selenium standard solution > RS - Standard solution for ICP-MS
RS

Code	Size	Packaging	Notes
505842	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505845	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid
505843	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Selenium standard solution > RS - Standard solution for ICP
RS

Code	Size	Packaging	Notes
503911	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503915	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
503913	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503917	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Selenium standard solution > RS - Standard solution for AAS
RS

Description ..... Clear pinky liquid Identification ..... Positive Titration factor..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
E497625	100 ml	Glass bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
507758	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
507491	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
E497621	500 ml	Glass bottle	conc. 1.000 ppm Matrix : Hydrochloric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Selenium standard solution > RS - NORMEX - Concentrated solution for AAS
RS

Description .....Clear pinkish liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
477691		Plastic vial	conc. 1.000 ppm Matrix : Water - Volume : 50 ml

Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package

Selenium, powder
Selenio, polvere • Sélénium, poudre • Selenio, polvo

Se
Molecular Weight: 78,96
CAS: 7782-49-2
EEC-N: 231-957-4

Classification transport
ONU: 3288
Transport Hazard class: 6.1
Packing group II

Danger
H301-H331-H373-H413
P264-P273-P271-P304+P340-P301+P310a-P314

Selenium, powder > RPE - For analysis
RPE

Description ..... Blackish powder
Identification ..... Positive
As ..... ≤ 100 ppm
Cu ..... ≤ 100 ppm
Fe ..... ≤ 100 ppm
Hg ..... ≤ 100 ppm
Pb ..... ≤ 500 ppm
Te ..... ≤ 500 ppm
Zn ..... ≤ 100 ppm
Assay ..... ≥ 99.50 % (Se)

Code	Size	Packaging	Notes
477702	25 g	Glass bottle	
477707	1 kg	Plastic bottle	

Selenium dioxide
Selenio biossido • Sélénium dioxyde • Selenio dióxido

SeO_2
Molecular Weight: 110,96
CAS: 7446-08-4
EEC-N: 231-194-7

Classification transport
ONU: 3283
Transport Hazard class: 6.1
Packing group II

Danger
H301-H331-H373-H410
P264-P273-P271-P304+P340-P301+P310a-P314

Selenium dioxide > RPE - For analysis
RPE

Description ..... White-pink crystals
Identification ..... Positive
Chloride ..... ≤ 500 ppm
Ca ..... ≤ 50 ppm
Cu ..... ≤ 50 ppm
Fe ..... ≤ 50 ppm
Pb ..... ≤ 50 ppm
Zn ..... ≤ 50 ppm
Assay (oxidimetric) ..... ≥ 98 %

Code	Size	Packaging	Notes
477762	25 g	Glass bottle	

Selenous acid
Acido selenioso • Acide sélénieux • Acido selenioso

H_2SeO_3
Molecular Weight: 128,98
CAS: 7783-00-8
EEC-N: 231-974-7

Classification transport
ONU: 3283
Transport Hazard class: 6.1
Packing group II

Danger
H301-H331-H373-H410
P264-P273-P271-P304+P340-P301+P310a-P314

Selenous acid > RPE - For analysis
RPE

Description ..... Whitish powder
Identification ..... Positive
Assay (iodometric) ..... ≥ 97.5 %

Code	Size	Packaging	Notes
409964	100 g	Glass bottle	

Silica gel 60A 6 - 35µ
Gel di silice 60A 6 - 35µ • Gel de silice 60A 6 - 35µ • Gel de sílice 60A 6 - 35µ

SiO_2
Molecular Weight: 60,09
CAS: 7631-86-9

Silica gel 60A 6 - 35µ > RS - For chromatography
RS

Particle size ..... 6 - 35 µm
Loss on drying ..... ≤ 6 %
Particle size > 10.1 µm ..... ≥ 90 %
Particle size > 40.3 µm ..... ≤ 10 %
Particle size > 6.4 µm ..... ≥ 98 %

Code	Size	Packaging	Notes
P2010017	1 kg	Plastic bottle	
P2010027	5 kg	Plastic bucket	
P2010044	25 kg	Plastic drum	

Stir before use

Silica gel 60A 20 - 45µ

Gel di silice 60A 20 - 45µ • Gel de silice 60A 20 - 45µ • Gel de sílice 60A 20 - 45µ

SiO_2
Molecular Weight: 60,09
CAS: 7631-86-9

Silica gel 60A 20 - 45µ > RS - For chromatography

RS

Particle size ..... 20 - 45 µm
Loss on drying ..... ≤ 6 %
Particle size > 16 µm ..... ≥ 98 %
Particle size > 20.2 µm ..... ≥ 90 %
Particle size > 64.0 µm ..... ≤ 4 %

Code	Size	Packaging	Notes
P2200017	1 kg	Plastic bottle	
P2200027	5 kg	Plastic bucket	

Stir before use

Silica gel 60A 35 - 70µ

Gel di silice 60A 35 - 70µ • Gel de silice 60A 35 - 70µ • Gel de sílice 60A 35 - 70µ

SiO_2
Molecular Weight: 60,09
CAS: 7631-86-9

Silica gel 60A 35 - 70µ > RS - For Flash chromatography

RS

Description ..... White powder
Identification ..... Positive
pH sospension 10% H2O ..... 6.2 ÷ 7.2
Chloride ..... ≤100 ppm
Apparent density ..... 380 ÷ 420 g/l
Nitrate ..... ≤150 ppm
Sulphate ..... ≤700 ppm
Cd ..... ≤5 ppm
Cu ..... ≤5 ppm
Fe ..... ≤50 ppm
Ni ..... ≤5 ppm
Pb ..... ≤5 ppm
Zn ..... ≤5 ppm
Granulometry
> 20.2 µm ..... ≥ 99.0 %
> 32.0 µm ..... ≥ 87.0 %
> 80.7 µm ..... ≤ 3.0 %

Code	Size	Packaging	Notes
453353	1 kg	Plastic bottle	
453355	5 kg	Plastic jar	

Silica gel 60A 35 - 70µ > RS - For chromatography

RS

Particle size ..... 35 ÷ 70 µm
Particle size <40 µm ..... ≤ 15 %
Particle size >63 µm ..... ≤ 10 %
Loss on drying ..... ≤ 8.0 %
pH (5%m/m solution) ..... 6.5 ÷ 7.5

Code	Size	Packaging	Notes
P2000017	1 kg	Plastic bottle	
P2000026	2 kg	Plastic jar	
P2000027	5 kg	Plastic bucket	
P2000044	25 kg	Plastic drum	

Stir before use

Silica gel 60A 40 - 63µ

Gel di silice 60A 40 - 63µ • Gel de silice 60A 40 - 63µ • Gel de sílice 60A 40 - 63µ

SiO_2
Molecular Weight: 60,09
CAS: 7631-86-9

Silica gel 60A 40 - 63µ > RS - For chromatography

RS

Particle size ..... 40 ÷ 63 µm
Particle size <40 µm ..... ≤ 15 %
Particle size >63 µm ..... ≤ 10 %
Loss on drying ..... ≤ 6 %
pH (5%m/m solution) ..... 6.5 ÷ 7.5

Code	Size	Packaging	Notes
P2050017	1 kg	Plastic bottle	
P2050027	5 kg	Plastic bucket	
P2050044	25 kg	Metal bucket	

Stir before use

Silica gel 60A 70 - 200µ

Gel di silice 60A 70 - 200µ • Gel de silice 60A 70 - 200µ • Gel de sílice 60A 70 - 200µ

SiO_2
Molecular Weight: 60,09
CAS: 7631-86-9

Silica gel 60A 70 - 200µ > RS - For chromatography

RS

Particle size ..... 70 ÷ 200 µm
Particle size <60 µm ..... ≤ 10 %
Particle size >200 µm ..... ≤ 10 %
Loss on drying ..... ≤ 6.0 %
pH (5%m/m solution) ..... 6.5 - 7.5

Code	Size	Packaging	Notes
P2100017	1 kg	Plastic bottle	
P2100026	2 kg	Plastic jar	
P2100027	5 kg	Plastic bucket	
P2100044	25 kg	Plastic drum	

Stir before use

Silica gel 60A 0,06÷0,20 mm

Gel di silice 60A 0,06÷0,20 mm • Gel de silice 60A 0,06÷0,20 mm • Gel de sílice 60A 0,06÷0,20 mm

Synonym:
Silica
Silicon dioxide

SiO_2
Molecular Weight: 60,09
CAS: 7631-86-9

Silica gel 60A 0,06÷0,20 mm > RS - For chromatography

RS

Description ..... White powder
Identification ..... Positive
pH sospension 10% H20 ..... 6.5 ÷ 7.5
< 0.06 mm ..... ≤5 %
> 0.20 mm ..... ≤5 %

Code	Size	Packaging	Notes
453336	500 g	Plastic bottle	
453332	5 kg	Plastic bucket	

Silica gel granular

Gel di silice granulare • Gel de silice granulés • Gel de sílice granulado

Synonym:
Silica
Silicon dioxide

SiO_2
Molecular Weight: 60,09
CAS: 7631-86-9

Silica gel granular > RE - Pure

RE

Description ..... White granules
Identification ..... Positive
Functionality ..... Conform

Code	Size	Packaging	Notes
453272	10 x 100 g	Carton box	
453273	10 x 250 g	Carton box	
453275	10 x 500 g	Carton box	
453277	1 kg	Plastic bottle	
453279	5 kg	Plastic jar	
453278	10 x 50 g	Carton box	

Silica gel granular with indicator cobalt free

Gel di silice granulare con indicatore esente da cobalto •
Gel de silice granulés avec indicateur exempt de cobalt • Gel de sílice granulado sin cobalto

Synonym:
Silica
Silicon dioxide

SiO_2
Molecular Weight: 60,09
CAS: 7631-86-9

Silica gel granular with indicator cobalt free > RE - Pure

RE

Description ..... Small bags containing yellowish granules Identification ..... Positive Functionality ..... Conform

Code	Size	Packaging	Notes
453317	1 kg	Plastic bottle	
453319	5 kg	Plastic jar	
453315	25 kg	Plastic bucket	

Silicon standard solution

Silicio standard soluzione • Silicium solution standard • Silicio, solución patrón

Classification transport
ONU: 3264
Transport Hazard class: 8
Packing group III

Danger
H314-H319
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Silicon standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505847	100 ml	Plastic bottle	conc. 10 ppm Matrix : Water
505848	100 ml	Plastic bottle	conc. 100 ppm Matrix : Water

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Silicon standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
503921	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503925	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Water
504271	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid and hydrofluoric acid
504275	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid and hydrofluoric acid
503923	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503927	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Water
504273	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid and hydrofluoric acid
504277	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid and hydrofluoric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Silicon standard solution > RS - Standard solution for AAS

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
E497635	100 ml	Glass bottle	conc. 1.000 ppm Matrix : Water
E497631	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Silicon standard solution > RS - NORMEX - Concentrated solution for AAS

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
477961		Plastic vial	conc. 1.000 ppm Matrix : Water - Volume : 50 ml

Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package

Silicon carbide ▶ Carborundum, granules

Silicon dioxide

Silicio biossido • Silicium dioxyde • Silicio dióxido

Synonym: *Silica*

SiO_2
Molecular Weight: 60,09
CAS: 14808-60-7
EEC-N: 238-878-4

Warning
H373
P260-P314-P501a

Silicon dioxide > RPE - For analysis

RPE

Description ..... White powder
Identification ..... Positive
Loss on ignition ..... ≤1 %
Chloride ..... ≤50 ppm
Heavy metals (Pb) ..... ≤50 ppm
Residue on ignition(HF) ..... ≤0.6 %
Sulphate ..... ≤150 ppm
Fe ..... ≤50 ppm

Code	Size	Packaging	Notes
422104	100 g	Plastic bottle	
422106	500 g	Plastic bottle	

Silicotungstic acid

Acido silicotungstico • Acide silicotungstique • Acido silicotúngstico

Synonym: *Tungstosilicic acid hydrate*

$SiO_2.12WO_3.26H_2O$
Molecular Weight: 3310,66
CAS: 12027-43-9

Warning
H315-H319-H335
P264-P271-P280-P304+P340-P305+P351+P338-P312a

Silicotungstic acid > RPE - For analysis

RPE

Description ..... Yellow crystals
Identification ..... Positive
Chloride ..... ≤20 ppm
Heavy metals (Pb) ..... ≤20 ppm
Sulphate ..... ≤50 ppm
Fe ..... ≤10 ppm
Total nitrogen ..... ≤20 ppm
K ..... ≤10 ppm
Loss on ignition ..... ≤15 %

Code	Size	Packaging	Notes
410051	10 g	Glass bottle	
410054	100 g	Glass bottle	

Silver standard solution

Argento standard soluzione • Argent solution standard • Plata, solución patrón

Classification transport
ONU: 3264
Transport Hazard class: 8
Packing group III

Danger
H314
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Silver standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2

RS

Code	Size	Packaging	Notes
615002609	100 ml	Glass bottle	A 5 ppm solution : to dilute according to Ref Ph.Eur 5002600

Silver standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505302	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505305	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid
505303	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Silver standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
503401	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503405	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
503403	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503407	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Silver standard solution > RS - Standard solution for AAS

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
507526	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
E497425	100 ml	Glass bottle	conc. 1.000 ppm Matrix : Nitric acid
507480	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
E497421	500 ml	Glass bottle	conc. 1.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Silver standard solution > RS - NORMEX - Concentrated solution for AAS

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
423611		Plastic ampoule	conc. 1.000 ppm Matrix : Nitric acid - Volume : 50 ml

Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package

Silver, sheet

Argento, lamina • Argent, lames • Plata, hojas

Ag
Molecular Weight: 107,87
CAS: 7440-22-4
EEC-N: 231-131-3

Silver, sheet > RPE - For analysis

RPE

Description ..... Lamina Identification ..... Positive Assay .....≥99.9 %

Code	Size	Packaging	Notes
423722	25 g	Bag	0.1 mm
423752	25 g	Bag	0.5 mm
423782	25 g	Bag	1 mm

Silver, wool

Argento, lana • Argent, laine • Plata, lana

Ag
Molecular Weight: 107,87
CAS: 7440-22-4
EEC-N: 231-131-3

Silver, wool > RS - For microanalysis

RS

Description ..... Lana Identification ..... Positive Assay .....≥99.9 %

Code	Size	Packaging	Notes
423791	5 g	Glass bottle	

Silver acetate
Argento acetato • Argent acétate • Plata acetato

Synonym:
Acetic acid silver salt

CH_3COOAg
Molecular Weight: 166,92
CAS: 563-63-3
EEC-N: 209-254-9

Warning
H315-H319-H335
P264-P271-P280-P304+P340-P305+P351+P338-P312a

Silver acetate > RE - Pure
RE

Description .....White greyish powder Identification ..... Positive Umidità (H2O) ..... ≤0.5 % Assay (argentimetric) ..... ≥98 %

Code	Size	Packaging	Notes
319502	25 g	Glass bottle	
319507	250 g	Plastic bottle	

Silver carbonate
Argento carbonato • Argent carbonate • Plata carbonato

Ag_2CO_3
Molecular Weight: 275,75
CAS: 534-16-7
EEC-N: 208-590-3

Danger
H318
P280-P305+P351+P338-P310a

Silver carbonate > RE - Pure
RE

Description .....Yellow-green powder Identification ..... Positive Substances not ppt HCl ..... ≤1 % Assay (argentimetric).....99.5 ÷ 101.5 %

Code	Size	Packaging	Notes
320002	25 g	Glass bottle	
320007	250 g	Glass bottle	

Silver chloride
Argento cloruro • Argent chlorure • Plata cloruro

AgCl
Molecular Weight: 143,32
CAS: 7783-90-6
EEC-N: 232-033-3

Silver chloride > RE - Pure
RE

Description .....Whitish irregular granules Ca .....≤ 60 ppm Mg .....≤ 60 ppm Pb .....≤ 60 ppm
Identification ..... Positive Cu .....≤ 100 ppm Mn .....≤ 60 ppm
Al .....≤ 60 ppm Fe .....≤ 100 ppm Ni.....≤ 60 ppm

Code	Size	Packaging	Notes
320502	25 g	Glass bottle	
320504	100 g	Glass bottle	

Silver diethyldithiocarbamate
Argento dietilditiocarbammato • Argent diéthyldithiocarbamate • Plata dietilditiocarbamato

Synonym:
DETC
Diethyldiocarbamic acid silver salt

$(C_2H_5)_2NCSSAg$
Molecular Weight: 256,14
CAS: 1470-61-7
EEC-N: 216-003-7

Silver diethyldithiocarbamate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP
RPE

Description ..... Yellow-greenish powder Identification ..... Positive Arsenic sensitivity.....Conform Solub.ty in Pyridine.....Conform

Code	Size	Packaging	Notes
423913	10 g	Glass bottle	

Silver manganese paper
Carta di manganese d'argento • Papier argent manganèse • Papel de plata de manganeso

Silver manganese paper > RS - For analysis according to Ph. Eur. Chap. 4.1.1 — RS

Code	Size	Packaging	Notes
611078200	50	Glass bottle	Ref Ph.Eur 1078200

Silver nitrate
Argento nitrato • Argent nitrate • Plata nitrato

Synonym: *Nitric acid silver(I) salt*

$AgNO_3$
Molecular Weight: 169,87
CAS: 7761-88-8
EEC-N: 231-853-9

Classification transport
ONU: 1493
Transport Hazard class: 5.1
Packing group II

Danger
H272-H290-H314-H410
P221-P264-P273-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Silver nitrate > RPE - For analysis - ACS — RPE

Description .....White crystals
Identification .....Positive
Appearance of solution .....Conform ACS
Fee acidity .....Conform ACS
Substances not ppt HCl .....≤100 ppm
Chloride.....≤5 ppm
Sulphate.....≤20 ppm
Cu.....≤2 ppm
Fe .....≤2 ppm
Pb.....≤10 ppm
Assay (argentimetric)..... ≥99.0 %

Code	Size	Packaging	Notes
423952	25 g	Glass bottle	
423954	100 g	Glass bottle	
423955	250 g	Glass bottle	
423957	1 kg	Plastic bottle	

Silver nitrate > ERBApharm - According to pharmacopoeia : Ph.Eur.-USP-FU-Ph.Franc.-BP-DAB — ERBApharm

Description ..... White crystalline powder
Identification ..... Positive
Appearance of solution .... Conform USP-NF
Acidity or alkalinity.....Conform Ph.Eur.
Al,Pb,Cu,Bi .....Conform Ph.Eur.
Foreingn salts ..... ≤ 0.3 %
Assay (argentimetric).....99.8 ÷ 100.5 %

Code	Size	Packaging	Notes
320904	100 g	Glass bottle	
320907	1 kg	Plastic bottle	

Silver nitrate solution 5%
Argento nitrato soluzione 5% • Argent nitrate solution 5% • Plata nitrato solución 5%

Synonym: *Nitric acid silver(I) salt*

$AgNO_3$
Molecular Weight: 169,87
CAS: 7761-88-8

Classification transport
ONU: 1760
Transport Hazard class: 8
Packing group II

Danger
H302-H315-H318-H411
P264-P273-P280-P305+P351+P338-P330-P332+P313

Silver nitrate solution 5% > RPE - For analysis — RPE

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 15° C .....1.036 ÷ 1.044
Assay .....4.0 ÷ 6.0 %

Code	Size	Packaging	Notes
E423982	1 l	Bottle	

Silver nitrate solution 2.9075%
Argento nitrato soluzione 2.9075% • Argent nitrate solution 2.90756% • Plata nitrato solución 2.90756%

Synonym: *Nitric acid silver(I) salt*

$AgNO_3$
Molecular Weight: 169,87
CAS: 7761-88-8

H412
P273-P501a

Silver nitrate solution 2.9075% > RPE - For analysis — RPE

Description ..... Clear colourless liquid
Identification ..... Positive
Titration factor.....0.998 ÷ 1.002

Code	Size	Packaging	Notes
E424001	1 l	Bottle	

Silver nitrate 1 mol/l (1N)

Argento nitrato 1 mol/l (1N) • Argent nitrate 1 mol/l (1N) • Plata nitrato 1 mol/l (1N)

Synonym: *Nitric acid silver(I) salt*

$AgNO_3$
Molecular Weight: 169,87
CAS: 7761-88-8

Classification transport
ONU: 1760
Transport Hazard class: 8
Packing group II

Danger
H301-H314-H411
P264-P273-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Silver nitrate 1 mol/l (1N) > RPE - For analysis

RPE

Description ..... Clear colourless liquid Assay (potentiometry) ..... 0.999 - 1.001 N NIST 399 ..... b

Code	Size	Packaging	Notes
424036000	500 ml	Glass bottle	
424035000	1 l	Glass bottle	

169.87 g of AgNO3. Volumetric solution ready-to-use : 1N. Traceable to NIST

Silver nitrate 0.5 mol/l (0.5N)

Argento nitrato 0.5 mol/l (0.5N) • Argent nitrate 0.5 mol/l (0.5N) • Plata nitrato 0.5 mol/l (0.5N)

Synonym: *Nitric acid silver(I) salt*

$AgNO_3$
Molecular Weight: 169,87
CAS: 7761-88-8

Classification transport
ONU: 1760
Transport Hazard class: 8
Packing group II

Danger
H302-H315-H318-H411
P264-P273-P280-P305+P351+P338-P330-P332+P313

Silver nitrate 0.5 mol/l (0.5N) > RPE - For analysis

RPE

Description ..... Clear colourless liquid Assay (potentiometry) ..... 0.4995 - 0.5005 N NIST 399 ..... b

Code	Size	Packaging	Notes
424051000	1 l	Glass bottle	

Volumetric solution ready-to-use : 0.5N. Traceable to NIST

Silver nitrate 0.1 mol/l (0.1N)

Argento nitrato 0.1 mol/l (0.1N) • Argent nitrate 0.1 mol/l (0.1N) • Plata nitrato 0.1 mol/l (0.1N)

Synonym: *Nitric acid silver(I) salt*

$AgNO_3$
Molecular Weight: 169,87
CAS: 7761-88-8

H412
P273-P501a

Silver nitrate 0.1 mol/l (0.1N) > RS - For analysis according to Ph. Eur. Chap. 4.2.2

RS

Code	Size	Packaging	Notes
613005600	1 l	Glass bottle	Ref Ph.Eur 3005600

Storage: protected from light

Silver nitrate 0.1 mol/l (0.1N) > RPE - For analysis

RPE

Description ..... Clear colourless liquid Assay (potentiometry) ..... 0.0999 - 0.1001 N NIST 399 ..... b

Code	Size	Packaging	Notes
424067000	1 l	Plastic bottle	
424062000	5 l	Kubidos	
424063000	5 l	Plastic tank	
424061000	10 l	Kubidos	

16.987 g of AgNO3. Volumetric solution ready-to-use : 0.1N. Traceable to NIST

Silver nitrate 0.1 mol/l (0.1N) > RPE - NORMEX - For analysis

RPE

Description ..... Clear colourless liquid Identification ..... Positive Titration factor ..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
424081		Glass ampoule	Volume : 60 ml

16,987 g of AgNO3. Volumetric concentrated solution to prepare 1 L of solution 0,1 N

Silver nitrate 0.05 mol/l (0.05N)

Argento nitrato 0.05 mol/l (0.05N) • Argent nitrate 0.05 mol/l (0.05N) • Plata nitrato 0.05 mol/l (0.05N)

Synonym: *Nitric acid silver(I) salt*

$AgNO_3$
Molecular Weight: 169,87
CAS: 7761-88-8

H412
P273-P501a

Silver nitrate 0.05 mol/l (0.05N) > RPE - For analysis

RPE

Description ..... Clear colourless liquid Assay (potentiometry) ..... 0.04995 - 0.05005 N NIST 399 ..... b

Code	Size	Packaging	Notes
424101000	1 l	Plastic bottle	

Volumetric solution ready-to-use : 0.05N. Traceable to NIST

Silver nitrate 0.03 mol/l (0.03N)

Argento nitrato 0.03 mol/l (0.03N) • Argent nitrate 0.03 mol/l (0.03N) • Plata nitrato 0.03 mol/l (0.03N)

Synonym: *Nitric acid silver(I) salt*

$AgNO_3$
Molecular Weight: 169,87
CAS: 7761-88-8

H412
P273-P501a

Silver nitrate 0.03 mol/l (0.03N) > RE - Pure

RE

Description ..... Clear colourless liquid Assay ..... 0.029 ÷ 0.031 N

Code	Size	Packaging	Notes
502087	2.5 l	Bottle	

Silver nitrate 0.025 mol/l (0.025N)

Argento nitrato 0.025 mol/l (0.025N) • Argent nitrate 0.025 mol/l (0.025N) • Plata nitrato 0.025 mol/l (0.025N)

Synonym: *Nitric acid silver(I) salt*

$AgNO_3$
Molecular Weight: 169,87
CAS: 7761-88-8

H412
P273-P501a

Silver nitrate 0.025 mol/l (0.025N) > RPE - For analysis

RPE

Assay (potentiometry) ..... 0.02495 - 0.02505 N

Code	Size	Packaging	Notes
PS0168/15	1 l		

Silver nitrate 0.01 mol/l (N/100)

Argento nitrato 0.01 mol/l (N/100) • Argent nitrate 0.01 mol/l (N/100) • Plata nitrato 0.01 mol/l (N/100)

Synonym: *Nitric acid silver(I) salt*

$AgNO_3$
Molecular Weight: 169,87
CAS: 7761-88-8

H412
P273-P501a

Silver nitrate 0.01 mol/l (N/100) > RPE - For analysis

RPE

Assay (potentiometry) ..... 0.00998 - 0.01002 N

Code	Size	Packaging	Notes
PS0030/15	1 l		

Silver nitrate 0.01 mol/l (N/100) > RPE - NORMEX - For analysis

RPE

Description ..... Clear colourless liquid Identification ..... Positive Titration factor ..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
424161		Glass ampoule	Volume : 60 ml

1,6987 g of AgNO3. Volumetric concentrated solution to prepare 1 L of solution 0,01 N

Silver nitrate solution

Argento nitrato soluzione • Argent nitrate solution • Plata nitrato solución

Synonym: *Nitric acid silver(I) salt*

$AgNO_3$
Molecular Weight: 169.87
CAS: 7761-88-8

Classification transport
ONU: 3082
Transport Hazard class: 9
Packing group III

Danger
H302-H315-H318-H411
P264-P273-P280-P305+P351+P338-P330-P332+P313

Silver nitrate solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1 — RS

Code	Size	Packaging	Notes
611078306	100 ml	Glass bottle	Silver nitrate R2 Ref Ph.Eur 1078302
611078307	100 ml	Glass bottle	Silver nitrate R1 Ref Ph.Eur 1078301
611078301	1 l	Glass bottle	Silver nitrate R1 Ref Ph.Eur 1078301
611078302	1 l	Glass bottle	Silver nitrate R2 Ref Ph.Eur 1078302

Storage: protected from light

Silver nitrate solution > RS - For analysis according to JP — RS

Code	Size	Packaging	Notes
616001001	1 l	Plastic bottle	Silver nitrate TS

Storage: protected from light

Silver nitrate solution > RS - For analysis according to USP — RS

Code	Size	Packaging	Notes
617000201	1 l	Glass bottle	Silver nitrate TS

Silver oxide

Argento ossido • Argent oxyde • Plata óxido

Synonym: *Silver(I) oxide*

Ag_2O
Molecular Weight: 231,74
CAS: 20667-12-3
EEC-N: 243-957-1

Classification transport
ONU: 1479
Transport Hazard class: 5.1
Packing group II

Danger
H271-H318-H410
P221-P273-P283-P210a-P280a-P305+P351+P338

Silver oxide > RPE - For analysis — RPE

Description ..... Grey powder
Identification ..... Positive
Loss on drying ..... ≤ 0.5 %
Ca ..... ≤ 50 ppm
Cd ..... ≤ 50 ppm
Cu ..... ≤ 0.08 %
Fe ..... ≤ 150 ppm
Mg ..... ≤ 50 ppm
Ni ..... ≤ 50 ppm
Pb ..... ≤ 50 ppm
Zn ..... ≤ 50 ppm
Assay (argentimetric) ..... ≥ 99 %

Code	Size	Packaging	Notes
424181	25 g	Glass bottle	
424182	250 g	Plastic bottle	

Silver sulfate

Argento solfato • Argent sulfate • Plata sulfato

Synonym: *Sulfuric acid disilver(I) salt*

Ag_2SO_4
Molecular Weight: 311,79
CAS: 10294-26-5
EEC-N: 233-653-7

Classification transport
ONU: 3077
Transport Hazard class: 9
Packing group III

Danger
H318-H410
P273-P280i-P305+P351+P338-P391-P310a-P501a

Silver sulfate > RPE - For analysis — RPE

Description ..... Polvere biancast
Identification ..... Positive
Umidità (H2O) ..... ≤ 0.5 %
Ca ..... ≤ 50 ppm
Cu ..... ≤ 500 ppm
Ni ..... ≤ 50 ppm
Fe ..... ≤ 150 ppm
Assay (argentimetric) ..... ≥ 98.5 %

Code	Size	Packaging	Notes
424201	25 g	Glass bottle	
424203	100 g	Glass bottle	

Silver sulfate solution 0.7% in sulfuric acid

Argento solfato soluzione 0.7% in acido solforico • Argent sulfate solution 0.7% dans l'acide sulfurique • Plata sulfato solución 0.7% en acido sulfúrico

Synonym:
Sulfuric acid disilver(I) salt

Ag_2SO_4
Molecular Weight: 311,79
CAS: 10294-26-5

Classification transport
ONU: 1830
Transport Hazard class: 8
Packing group II

Danger
H314-H318
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Silver sulfate solution 0.7% in sulfuric acid > RS - For environmental analysis (COD determination) — RS

Description ..... Clear colourless liquid Identification ..... Positive Assay ..... 0.685 ÷ 0.715 %

Code	Size	Packaging	Notes
424191	1 l	Glass bottle	
424192	2.5 l	Glass bottle	

Soap solution in ethanol

Sapone soluzione in alcole etilico • Savon en solution dans l'éthanol • Jabón solución en alcohol etilico

Classification transport
ONU: 1170
Transport Hazard class: 3
Packing group II

Warning
H226-H315-H319
P210-P241-P264-P303+P361+P353-P305+P351+P338-P403+P235

Soap solution in ethanol > RS - For hydrotimetry according to Boutron-Boudet — RS

Description ..... Yellowish clear liquid Identification ..... Positive

Code	Size	Packaging	Notes
E477507	1 l	Glass bottle	

Soda lime

Calce sodata • Chaux sodée • Cal sodada

CAS: 8006-28-8

Warning
H315-H319
P264-P280-P305+P351+P338-P332+P313-P337+P313-P302+P352a

Soda lime > RS - For anesthesia and basal metabolism test — RS

Description ..... White granules Water ..... 12.0 ÷ 19.0 % Activity ..... ≥ 19.0 % Umidità assorbita ..... ≤ 7.5 %
Identification ..... Positive Alcalinity (NaOH) ..... ≤ 3.5 % Hardness ..... ≥ 75.0 % Diameter ..... 2.5 ÷ 5.0 mm

Code	Size	Packaging	Notes
432873	1 kg	Plastic bottle	
432874	4,5 kg	Plastic tank	

With ethyl violet indicator

Soda lime > RS - For aqualungs — RS

Description ..... White granules Hardness ..... ≥ 75 % > 4.75 mm ..... ≤ 7.0 %
Identification ..... Positive Activity ..... ≥ 60 min. > 0.6 mm ..... ≤ 15.0 %
Water ..... 16 ÷ 20 % > 5.60 mm ..... ≤ 1.0 % < 0.6 mm ..... ≤ 1.0 %

Code	Size	Packaging	Notes
432891	1 kg	Plastic bottle	
432893	5 kg	Plastic bottle	

With indicator ethyl violet

Soda lime > RS - For CO2 absorption — RS

Description ..... Granuli white Diameter: ..... Conform > 1.40 mm ..... Balance
Identification ..... Positive > 2.80 mm ..... < 1.0 % > 0.60 mm ..... < 20.0 %
CO2 Absorption ..... > 19 % > 2.00 mm ..... < 30.0 % < 0.60 mm ..... < 1.0 %

Code	Size	Packaging	Notes
432861	1 kg	Plastic bottle	
432862	5 kg	Plastic jar	

With indicator manganese salt

Soda lime > RS - For microanalysis

RS

Description ..... White granules
Identification ..... Positive
Water ..... 16 ÷ 19 %
Hardness ..... ≥80 %
> 4.75 mm ..... ≤7.0 %
< 0.6 mm ..... ≤1.0 %

Code	Size	Packaging	Notes
432851	500 g	Plastic bottle	

With indicator ethyl violet

Soda lime > RPE - For analysis

RPE

Description ..... White granules
Identification ..... Positive
Water ..... 12 ÷ 19 %
Hardness ..... ≥ 75 %
Activity ..... ≥ 19.0 %
Alcalinity (NaOH) ..... ≤ 3.5 %
> 8.0 mm ..... Nil
> 4.75 mm ..... ≤ 7.0 %
< 0.425 mm ..... ≤ 2.0 %

Code	Size	Packaging	Notes
432801	1 kg	Plastic bottle	
432802	2.5 kg	Plastic jar	
432803	25 kg	Plastic bucket	

With ethyl purple indicator. Diameter 2,5 - 6 mm

Sodium standard solution

Sodio standard soluzione • Sodium solution standard • Sodio+D2272

Danger
H314
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Sodium standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2

RS

Code	Size	Packaging	Notes
615002701	100 ml	Plastic bottle	A 50 ppm solution : to dilute according to Ref Ph.Eur 5002701
615002709	100 ml	Plastic bottle	A 200 ppm solution : to dilute according to Ref Ph.Eur 5002700
615005700	1 l	Plastic bottle	A 1000 ppm solution Ref Ph.Eur 5005700

Sodium standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505732	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505735	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid
505733	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Sodium standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
503741	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503745	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
503743	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503747	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Sodium standard solution > RS - Standard solution for AAS

RS

Description ..... Clear colourless liquid
Identification ..... Positive
Titration factor ..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
E497645	100 ml	Glass bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
507759	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503749	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
E497641	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Sodium standard solution > RS - NORMEX - Concentrated solution for AAS

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
478101		Plastic vial	conc. 1.000 ppm Matrix : Nitric acid - Volume : 50 ml

Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package

Sodium standard solution > RS - Standard solution for ion chromatography

RS

Code	Size	Packaging	Notes
503301	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503303	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Sodium, metallic

Sodio, metallico • Sodium, métal • Sodio, metal

Na
Molecular Weight: 22,99
CAS: 7440-23-5
EEC-N: 231-132-9

Classification transport
ONU: 1428
Transport Hazard class: 4.3
Packing group I

Danger
H260-H314-HEU014
P223-P264-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Sodium, metallic > RPE - For analysis

RPE

Description .....Irregular silvery pieces Ca..... ≤ 550 ppm Assay .....≥ 99.8 % (Na)
Identification ..... Positive K..... ≤ 300 ppm

Code	Size	Packaging	Notes
478081	500 g	Metal bucket	

Sodium acetate anhydrous

Sodio acetato anidro • Sodium acétate anhydre • Sodio acetato anhidro

Synonym:
Acetic acid sodium salt anhydrous

CH_3COONa
Molecular Weight: 82,035
CAS: 127-09-3
EEC-N: 204-823-8

Sodium acetate anhydrous > RPE - For analysis

RPE

Description .....White hygroscopic powder
Identification ..... Positive
pH sol. 5% at 25° C .....7.5 ÷ 9.2
Loss on drying ..... ≤1.0 %
Ca, Mg and ppt by NH4OH.....≤50 ppm
Chloride.....≤350 ppm
Heavy metals (Pb).....≤10 ppm
Nitrate .....≤10 ppm
Subst. reducing KMnO4..... ≤50 ppm (1h)
Sulphate .....≤100 ppm
Al .....≤5 ppm
As .....≤1 ppm
Ca.....≤100 ppm
Cu.....≤2 ppm
Fe .....≤3 ppm
K..... ≤0.1 %
Mg .....≤5 ppm
Mn .....≤5 ppm
Ni.....≤2 ppm
Zn .....≤2 ppm
Assay (non-aqueos medium) .99.0 ÷ 101.0 % (s.s.)

Code	Size	Packaging	Notes
478165	100 g	Plastic bottle	
478166	500 g	Plastic bottle	
478167	1 kg	Plastic bottle	
478163	25 kg	Fibre drum	

Sodium acetate anhydrous > ERBApharm - According to pharmacopoeia : USP

ERBApharm

Description ..... White crystalline powder
Identification ..... Positive
Calcium + Magnesium .... Conform USP-NF
K..... Conform USP-NF
pH..... 7.5 ÷ 9.2 USP-NF
Loss on drying ..... ≤1.0 %
Water not sol. matter .....≤500 ppm
Chloride.....≤350 ppm
Heavy metals (Pb).....≤10 ppm
Sulphate .....≤50 ppm
Al .....≤0.2 ppm
Assay (non-aqueos medium) .99.0 ÷ 101.0 % s.s.
Origin (BSE/TSE)..... Synthesis

Code	Size	Packaging	Notes
366377	1 kg	Plastic bottle	
366372	5 kg	Plastic jar	
366371	25 kg	Plastic bucket	

Sodium acetate trihydrate

Sodio acetato triidrato • Sodium acétate trihydraté • Sodio acetato trihidrato

Synonym:
Acetic acid sodium salt trihydrate

$CH_3COONa.3H_2O$
Molecular Weight: 136,08
CAS: 6131-90-4
EEC-N: 204-823-8

Sodium acetate trihydrate > RPE - For analysis - ISO - ACS - Reag.USP

RPE

Description .....White crystals
Identification ..... Positive
pH sol. 5% at 25° C .....7.5 ÷ 9.2
Subst. reducing KMn04.....Conform
Chloride.....≤10 ppm
Phosphate .....≤5 ppm
Water-insoluble matter .....≤50 ppm
Heavy metals (Pb).....≤5 ppm
Sulphate .....≤20 ppm
Fe .....≤5 ppm
K.....≤50 ppm
Assay (non-aqueos medium) .99.0 ÷ 101.0 %
Ca.....≤50 ppm
Mg .....≤20 ppm

Code	Size	Packaging	Notes
478135	100 g	Plastic bottle	
478136	500 g	Plastic bottle	
478137	1 kg	Plastic bottle	
478139	5 kg	Plastic jar	
478132	25 kg	Plastic bucket	

Sodium acetate trihydrate > ERBApharm - According to pharmacopoeia : Ph.Eur.-USP-FU-BP

ERBApharm

Description ..... White or almost white,cryst. powder or colourless cryst.
Identification ..... Positive
Appearance of solution .....Conform Ph.Eur.
Reducing substances .....Conform Ph.Eur.
K..... Conform USP-NF
pH sol. 5% at 25° C .....7.5 ÷ 9.0
Loss on drying 130° C.....39.0 ÷ 40.5 %
Chloride.....≤200 ppm
Heavy metals (Pb).....≤10 ppm
Sulphate .....≤50 ppm
Not soluble matter.....≤500 ppm
As .....≤2 ppm
Calcium + Magnesium .....≤50 ppm
Fe .....≤10 ppm
Al .....≤0.2 ppm
Assay (non-aqueos medium) .99.0 ÷ 101.0 % (s.s.)

Code	Size	Packaging	Notes
366207	1 kg	Plastic bottle	
366209	5 kg	Plastic jar	
366205	25 kg	Plastic bucket	

Sodium alginate

Sodio alginato • Sodium alginate • Sodio alginato

Synonym:
Algin
Alginic acid

$(C_6H_7O_6Na)n$
Molecular Weight: >200000
CAS: 9005-38-3

Sodium alginate > ERBApharm - According to pharmacopoeia : FU-Ph.Eur.

ERBApharm

Description ..... Beige powder
Identification ..... Positive
Appearance of solution .....Conform Ph.Eur.
Loss on drying ..... ≤15.0 %
Sulphated ash.....30.0 ÷ 36.0 %
Chloride..... ≤1.0 %
Heavy metals (Pb).....≤20 ppm
Ca..... ≤1.50 %
Microbial tests
TAMC ..... ≤1000 CFU/g
TYMC ..... ≤100 CFU/g
Escherichia coli ..... Absent
Salmonella..... Absent

Code	Size	Packaging	Notes
366551	100 g	Plastic bottle	
366552	1 kg	Plastic bottle	
366553	5 kg	Plastic jar	

Sodium aluminate

Sodio alluminato • Sodium aluminate • Sodio aluminato

$NaAlO_2$
Molecular Weight: 81,97
CAS: 11138-49-1
EEC-N: 234-391-6

Classification transport
ONU: 2812
Transport Hazard class: 8
Packing group III

Danger
H314
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Sodium aluminate > RE - Pure

RE

Description ..... White-grey powder
Identification ..... Positive
Water-insoluble matter ..... ≤0.2 %
Fe ..... ≤200 ppm
Assay ..... 53 ÷ 55 %(Al2O3)

Code	Size	Packaging	Notes
478237	1 kg	Plastic bottle	
478232	25 kg	Plastic bucket	

Sodium ammonium hydrogen phosphate

Sodio ammonio idrogeno fosfato • Sodium ammonium hydrogénophosphate • Sodio y amonio hidrógeno fosfato

Synonym:
Ammonium sodium phosphate dibasic tetrahydrate
Ammonium sodium hydrogen phosphate

$NaNH_4HPO_4.4H_2O$
Molecular Weight: 209,07
CAS: 13011-54-6
EEC-N: 235-860-8

Sodium ammonium hydrogen phosphate > RPE - For analysis

RPE

Description ..... White crystalline powder
Identification ..... Positive
pH sol. 5% at 25° C ..... 7.5 ÷ 8.5
Carbonate ..... ≤10 ppm
Chloride ..... ≤10 ppm
Fluoride ..... ≤10 ppm
Water-insoluble matter ..... ≤50 ppm
Heavy metals (Pb) ..... ≤5 ppm
Nitrate ..... ≤10 ppm
Sulphate ..... ≤50 ppm
As ..... ≤0.5 ppm
Ca ..... ≤50 ppm
Cu ..... ≤25 ppm
Fe ..... ≤5 ppm
K ..... ≤300 ppm
Mg ..... ≤20 ppm
Ni ..... ≤25 ppm
Zn ..... ≤25 ppm
Assay (acidimetric) ..... ≥99.5 %

Code	Size	Packaging	Notes
478357	1 kg	Plastic bottle	

Sodium L-ascorbate

Sodio L-ascorbato • Sodium L-ascorbate • Sodio L-ascorbato

Synonym:
L(+)Ascorbic acid sodium salt
Vitamin C sodium salt

$C_6H_7O_6Na$
Molecular Weight: 198,11
CAS: 134-03-2
EEC-N: 205-126-1

Sodium L-ascorbate > RE - Pure

RE

Description ..... White or yellow crystalline powder
Identification ..... Positive
Specific optical rotation..... +103 ÷ +106 °
Heavy metals (Pb) ..... ≤20 ppm
Water ..... ≤0.3 %
As ..... ≤3 ppm
Pb ..... ≤10 ppm
Assay (oxidimetric) ..... ≥98 %

Code	Size	Packaging	Notes
366681	100 g	Plastic bottle	
366684	1 kg	Plastic bottle	

Sodium arsenite 0.1 mol/l (0.2N)

Sodio arsenito 0.1 mol/l (0.2N) • Sodium arsenite 0.1 mol/l (0.2N) • Sodio arsenito 0.1 mol/l (0.2N)

Synonym:
Sodium (meta)arsenite
Sodium dioxoarsenate

$AsNaO_2$
Molecular Weight: 129,91
CAS: 7784-46-5

Classification transport
ONU: 1686
Transport Hazard class: 6.1
Packing group III

Danger
H302-H350-H411-HA26
P264-P273-P280-P308+P313-P330-P301+P312a

Sodium arsenite 0.1 mol/l (0.2N) > RS - For analysis according to Ph. Eur. Chap. 4.2.2

RS

Code	Size	Packaging	Notes
613005800	1 l	Plastic bottle	Ref Ph.Eur 3005800

Sodium arsenite 0.05 mol/l (0.1N)

Sodio arsenito 0.05 mol/l (0.1N) • Sodium arsenite 0.05 mol/l (0.1N) • Sodio arsenito 0.05 mol/l (0.1N)

Synonym:
Sodium (meta)arsenite
Sodium dioxoarsenate

$AsNaO_2$
Molecular Weight: 129,91
CAS: 7784-46-5

Classification transport
ONU: 1686
Transport Hazard class: 6.1
Packing group II

Danger
H302-H319-H350-H411-HA26
P264-P273-P280-P305+P351+P338-P308+P313-P330

Sodium arsenite 0.05 mol/l (0.1N) > RPE - NORMEX - For analysis

RPE

Description ..... Clear colourless liquid
Identification ..... Positive
Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
402381		Glass ampoule	Volume : 60 ml

6,494 g NaAsO2. Volumetric concentrated solution to prepare 1 L of solution 0,1 N

Sodium azide

Sodio azide • Sodium azide • Sodio azida

NaN_3
Molecular Weight: 65,01
CAS: 26628-22-8
EEC-N: 247-852-1

Classification transport
ONU: 1687
Transport Hazard class: 6.1
Packing group II

Danger
H300-H410-HEU032
P264-P273-P270-P301+P310a-P330-P321

Sodium azide > RE - Pure

RE

Description ..... White crystalline powder
Identification ..... Positive
Loss on drying ..... ≤ 0.5 %
Water-insoluble matter .....≤ 500 ppm
pH solution 5% ..... ≥ 9
Heavy metals (Pb).....≤ 20 ppm
Sodium carbonate ..... ≤ 0.15 %
Assay (oxidimetric) ..... ≥ 98.5 %

Code	Size	Packaging	Notes
478484	25 g	Glass bottle	
478482	250 g	Glass bottle	
478481	2.5 kg	Plastic bottle	

Sodium benzoate

Sodio benzoato • Sodium benzoate • Sodio benzoato

Synonym:
Benzoic acid sodium salt

C_6H_5COONa
Molecular Weight: 144,11
CAS: 532-32-1
EEC-N: 208-534-8

Warning
H319
P264-P280i-P305+P351+P338-P337+P313

Sodium benzoate > ERBApharm - According to pharmacopoeia : BP-FU-NF-Ph.Eur.

ERBApharm

Description ..... White crystalline powder
Identification ..... Positive
Appearance of solution .....Conform Ph.Eur.
Acidity or alkalinity.....Conform Ph.Eur.
Water (K.F.) ..... ≤1.5 %
Loss on drying ..... ≤2.0 %
Halog. comp. ionized Cl .....≤200 ppm
Halog. comp. total Cl .....≤300 ppm
Heavy metals (Pb).....≤10 ppm
Assay (non-aqueos medium) .99.0 ÷ 100.5 % s.s.

Code	Size	Packaging	Notes
366757	1 kg	Plastic bottle	
366759	5 kg	Plastic bucket	
366754	25 kg	Fibre drum	

Sodium bicarbonate

Sodio bicarbonato • Sodium bicarbonate • Sodio bicarbonato

Synonym:
Sodium hydrogen carbonate

$NaHCO_3$
Molecular Weight: 84,01
CAS: 144-55-8
EEC-N: 205-633-8

Sodium bicarbonate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description ..... White crystalline powder	Phosphate .....≤10 ppm	Assay (alkalimetric).....99.7 ÷ 100.3 % s.s.	Carbonate.....Conform
Identification ..... Positive	Total sulphur .....≤30 ppm	Ca.....≤100 ppm	Loss on drying ..... ≤0.25 %
Water-insoluble matter .....≤150 ppm	Heavy metals (Pb).....≤5 ppm	Mg .....≤50 ppm	Sulphate .....≤150 ppm
Ammonium .....≤5 ppm	Fe .....≤10 ppm	As .....≤2 ppm	
Chloride.....≤30 ppm	K.....≤50 ppm	Appearance of solution .....Conform	

Code	Size	Packaging	Notes
478535	100 g	Plastic bottle	
478536	500 g	Plastic bottle	
478537	1 kg	Plastic bottle	
478531	5 kg	Plastic jar	
478532	25 kg	Plastic bucket	

Sodium bicarbonate > ERBApharm - According to pharmacopoeia : Ph.Eur.-USP-FU-BP-DAB

ERBApharm

Description ..... White crystalline powder	Not soluble matter..... Conform USP-NF	Heavy metals (Pb).....≤5 ppm	Ca.....≤100 ppm
Identification ..... Positive	Loss (silica gel) ..... ≤0.25 %	Sulphate .....≤150 ppm	Fe .....≤20 ppm
Appearance of solution .....Conform Ph.Eur.	Ammonium .....≤20 ppm	Sulfur compounds .....≤150 ppm	Assay (alkalimetric).....99.0 ÷ 100.5 % s.s.
Carbonate.....Conform Ph.Eur.	Chloride.....≤150 ppm	As .....≤2 ppm	Normal carbonate.....Conform

Code	Size	Packaging	Notes
366908	1 kg	Plastic bottle	
366909	5 kg	Plastic jar	
366902	25 kg	Plastic bucket	
366904	50 kg	Plastic bucket	

Sodium bisulfate monohydrate

Sodio bisolfato monoidrato • Sodium bisulfate monohydraté • Sodio bisulfato monohidrato

Synonym:
Sodium hydrogen sulfate monohydrate

$NaHSO_4.H_2O$
Molecular Weight: 138,07
CAS: 10034-88-5
EEC-N: 231-665-7

Classification transport
ONU: 3260
Transport Hazard class: 8
Packing group III

Danger
H318
P280i-P305+P351+P338-P310a

Sodium bisulfate monohydrate > RPE - For analysis

RPE

Description ..... White crystals	Chloride..... ≤ 20 ppm	Fe ..... ≤ 50 ppm
Identification ..... Positive	Heavy metals (Pb)..... ≤ 50 ppm	Assay .....≥ 96.0 %

Code	Size	Packaging	Notes
478675	100 g	Plastic bottle	
478676	500 g	Plastic bottle	
478677	1 kg	Plastic bottle	
478673	25 kg	Drum	

Sodium borohydride

Sodio boroidruro • Sodium borohydrure • Sodio boro hidruro

Synonym:
Sodium tetrahydroborate

$NaBH_4$
Molecular Weight: 37,83
CAS: 16940-66-2

Classification transport
ONU: 1426
Transport Hazard class: 4.3
Packing group I

Sodium borohydride > RE - Pure - Powder

RE

Description ..... White powder Identification ..... Positive Assay (oxidimetric) .....≥ 95 %

Code	Size	Packaging	Notes
478953	50 g	Metallic can	
478955	250 g	Metallic can	
478957	1 kg	Metal bucket	

Sodium borohydride > RE - Pure - Pearls

RE

Description ..... White pearls Identification ..... Positive Assay .....≥ 98.0 %

Code	Size	Packaging	Notes
478964	100 g	Metallic can	

Sodium bromide

Sodio bromuro • Sodium bromure • Sodio bromuro

NaBr
Molecular Weight: 102,9
CAS: 7647-15-6
EEC-N: 231-599-9

Warning
H315-H319-H335
P264-P271-P280-P304+P340-P305+P351+P338-P312a

Sodium bromide > RPE - For analysis - ACS

RPE

Description ..... White crystalline powder
Identification ..... Positive
pH sol. 5% at 25° C .....5.0 ÷ 8.8
Bromate .....≤ 10 ppm
Chloride..... ≤ 0.2 %
Water-insoluble matter .....≤ 50 ppm
Heavy metals (Pb).....≤ 5 ppm
Sulphate.....≤ 20 ppm
Ba.....≤ 20 ppm
Ca.....≤ 20 ppm
Fe .....≤ 5 ppm
K..... ≤ 0.1 %
Mg .....≤ 10 ppm
Assay (argentimetric)..... ≥ 99.0 %

Code	Size	Packaging	Notes
479055	250 g	Plastic bottle	
479057	1 kg	Plastic bottle	

Sodium bromide > ERBApharm - According to pharmacopoeia : Ph.Eur.-Ph.Franc.

ERBApharm

Description ..... White crystalline powder
Identification ..... Positive
Appearance of solution .....Conform Ph.Eur.
Acidity or alkalinity.....Conform Ph.Eur.
Bromate .....Conform Ph.Eur.
Iodide .....Conform Ph.Eur.
Loss on drying ..... ≤3.0 %
Chloride..... ≤0.6 %
Mg,alkal.earth met.(Ca) .....≤200 ppm
Heavy metals (Pb).....≤10 ppm
Sulphate .....≤100 ppm
Fe .....≤20 ppm
Assay (argentimetric)..98.0 ÷ 100.5 % s.s.

Code	Size	Packaging	Notes
367357	1 kg	Plastic bottle	
367359	5 kg	Plastic jar	

Sodium 1-butanesulfonate ▶ 1-Butanesulfonic acid sodium salt

Sodium carbonate anhydrous

Sodio carbonato anidro • Sodium carbonate anhydre • Sodio carbonato anhidro

Synonym:
Calcined soda
Carbonic acid disodium salt

Na_2CO_3
Molecular Weight: 105,99
CAS: 497-19-8
EEC-N: 207-838-8

Warning
H319
P264-P280i-P305+P351+P338-P337+P313

Sodium carbonate anhydrous > RS - Standard for volumetry

RS

Description ..... White crystals Identification ..... Positive Assay .....≥99.7 %

Code	Size	Packaging	Notes
479331	50 g	Glass bottle	

Sodium carbonate anhydrous > RPE - For analysis - ISO - ACS - Reag.Ph.Eur. - Reag.USP

RPE

Description ..... White crystalline powder
Identification ..... Positive
Loss on drying (285°C)..... ≤ 1.0 %
Chloride.....≤ 10 ppm
Phosphate .....≤ 10 ppm
Water-insoluble matter .....≤ 100 ppm
Heavy metals (Pb).....≤ 5 ppm
Silicate .....≤ 50 ppm
Total sulphur .....≤ 30 ppm
Fe .....≤ 5 ppm
K.....≤ 50 ppm
Assay (alkalimetric)..... ≥ 99.5 % s.s.
Ca.....≤ 300 ppm
Mg .....≤ 50 ppm

Code	Size	Packaging	Notes
479305	100 g	Plastic bottle	
479306	500 g	Plastic bottle	
479307	1 kg	Plastic bottle	
479301	5 kg	Plastic jar	
479302	25 kg	Drum	

Sodium carbonate anhydrous > ERBApharm - According to pharmacopoeia : Ph.Eur.-NF

ERBApharm

Description ..... White crystalline powder
Identification ..... Positive
Loss on drying ..... ≤0.5 %
Appearance of solution .....Conform Ph.Eur.
Alkali hydroxides and bicarbonates Conform Ph.Eur.
Chloride.....≤ 125 ppm
Sulphate .....≤ 250 ppm
As .....≤ 5 ppm
Fe .....≤ 50 ppm
Heavy metals (Pb).....≤ 10 ppm
Residue solvents ..... Conform USP-NF
Assay (acidimetric) .....99.5 ÷ 100.5 %s.s.

Code	Size	Packaging	Notes
367707	1 kg	Plastic bottle	
367703	5 kg	Plastic jar	
367704	50 kg	Fibre drum	

Sodium carbonate decahydrate

Sodio carbonato decaidrato • Sodium carbonate décahydraté • Sodio carbonato decahidrato

$Na_2CO_3.10H_2O$
Molecular Weight: 286,14
CAS: 6132-02-1
EEC-N: 207-838-8

Warning
H319
P264-P280i-P305+P351+P338-P337+P313

Sodium carbonate decahydrate > RPE - For analysis - ISO

RPE

Description .....White crystals
Identification ..... Positive
Free alkalies (NaOH) .....≤400 ppm
Total nitrogen.....≤5 ppm
Bicarbonate ..... ≤0.2 %
Chloride.....≤5 ppm
Phosphate .....≤5 ppm
Water-insoluble matter .....≤25 ppm
Heavy metals (Pb).....≤3 ppm
Subst. ppt by NH4OH.....≤100 ppm
Reducing iodine .....≤50 ppm
Silicate .....≤20 ppm
Total sulphur .....≤10 ppm
Al .....≤5 ppm
As .....≤0.1 ppm
Ca.....≤20 ppm
Cu.....≤2 ppm
Fe .....≤2 ppm
K.....≤50 ppm
Mg .....≤2 ppm
Ni.....≤2 ppm
Pb .....≤2 ppm
Zn .....≤2 ppm
Assay (alkalimetric)..... ≥99.5 %

Code	Size	Packaging	Notes
479125	100 g	Plastic bottle	
479126	500 g	Plastic bottle	
479127	1 kg	Plastic bottle	
479121	5 kg	Plastic jar	
479122	25 kg	Plastic bucket	

Sodium carbonate decahydrate > ERBApharm - According to pharmacopoeia : BP-FU-Ph.Eur.-Ph.Franc.

ERBApharm

Description ..... White crystalline powder
Identification ..... Positive
Appearance of solution .....Conform Ph.Eur.
Alc.hydroxides + bicar. .....Conform Ph.Eur.
Chloride.....≤50 ppm
Heavy metals (Pb).....≤20 ppm
Sulphate.....≤100 ppm
As .....≤2 ppm
Fe .....≤20 ppm
Assay (alkalimetric)36.7 ÷ 40.0 % Na2CO3

Code	Size	Packaging	Notes
367608	1 kg	Plastic bottle	
367609	5 kg	Plastic jar	
367601	25 kg	Plastic bucket	
367604	50 kg	Fibre drum	

Sodium carbonate monohydrate

Sodio carbonato monoidrato • Sodium carbonate monohydraté • Sodio carbonato monohidrato

Synonym:
Carbonic acid disodium salt

$Na_2CO_3.H_2O$
Molecular Weight: 124
CAS: 5968-11-6
EEC-N: 207-838-8

Warning
H319
P264-P280i-P305+P351+P338-P337+P313

Sodium carbonate monohydrate > RS - For analysis according to Ph. Eur. Chap. 4.2.1

RS

Code	Size	Packaging	Notes
612000500	50 g	Plastic bottle	Ref Ph.Eur 2000500

Sodium carbonate monohydrate > RPE - For analysis - ACS

RPE

Description .....White, granular crystals
Identification .....Positive
Loss on drying .....13.0 ÷ 15.0 %
Ca..... ≤ 0.03 %
Chloride.....≤ 10 ppm
Phosphate .....≤ 5 ppm
Water-insoluble matter .....≤ 100 ppm
Heavy metals (Pb).....≤ 5 ppm
Mg .....≤ 50 ppm
Silicate .....≤ 50 ppm
Total sulphur .....≤ 40 ppm
Fe .....≤ 5 ppm
K.....≤ 50 ppm
Assay (alkalimetric)..... ≥ 99.5 %

Code	Size	Packaging	Notes
479255	100 g	Plastic bottle	
479256	500 g	Plastic bottle	
479257	1 kg	Plastic bottle	

Sodium carbonate monohydrate > ERBApharm - According to pharmacopoeia : FU-Ph.Eur.-Ph.Franc.

ERBApharm

Description ..... White crystalline powder
Identification ..... Positive
Appearance of solution .....Conform Ph.Eur.
Alkali hydroxides and bicarbonates Conform Ph.Eur.
Chloride.....≤ 125 ppm
Sulphate.....≤ 250 ppm
Heavy metals (Pb).....≤ 50 ppm
As .....≤ 5 ppm
Fe .....≤ 50 ppm
Assay (alkalimetric).....83.0 ÷ 87.5 %

Code	Size	Packaging	Notes
367691	1 kg	Plastic bottle	
367692	5 kg	Plastic jar	
367693	25 kg	Plastic bucket	
367694	50 kg	Plastic bucket	

Sodium carbonate solution 20%

Sodio carbonato soluzione 20% • Sodium carbonate solution 20% • Sodio carbonato solución 20%

Synonym:
Calcined soda
Carbonic acid disodium salt

$Na_2CO_3.10H_2O$
Molecular Weight: 105,99
CAS: 497-19-8

HEU210

Sodium carbonate solution 20% > RPE - For analysis

RPE

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 20° C ..... 1.072 ÷ 1.078

Code	Size	Packaging	Notes
479151	1 l	Plastic bottle	

Mass percentage based on Na2CO3.10H2O content

Sodium carbonate solution

Sodio carbonato soluzione • Sodium carbonate anhydre solution • Sodio carbonato solución

Synonym:
Calcined soda
Carbonic acid disodium salt

Na_2CO_3
Molecular Weight: 105,99
CAS: 497-19-8

Warning
H319
P264-P280-P305+P351+P338-P337+P313

Sodium carbonate solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1 — RS

Code	Size	Packaging	Notes
611079301	1 l	Plastic bottle	A 106 g/l solution ref Ph.Eur 1079301

Sodium carbonate 0.5 mol/l (1N)

Sodio carbonato 0.5 mol/l (1N) • Sodium carbonate 0.5 mol/l (1N) • Sodio carbonato 0.5 mol/l (1N)

Synonym:
Calcined soda
Carbonic acid disodium salt

Na_2CO_3
Molecular Weight: 105,99
CAS: 497-19-8

HEU210

Sodium carbonate 0.5 mol/l (1N) > RPE - For analysis — RPE

Description ..... Clear colourless liquid Assay (potentiometry) ..... 0.998 - 1.002 N

Code	Size	Packaging	Notes
479186	500 ml	Plastic bottle	

52,995 g of Na2CO3. Volumetric solution ready-to-use: 1 N

Sodium carbonate 0.05 mol/l (0.1N)

Sodio carbonato 0.05 mol/l (0.1N) • Sodium carbonate 0.05 mol/l (0.1N) • Sodio carbonato 0.05 mol/l (0.1N)

Synonym:
Calcined soda
Carbonic acid disodium salt

Na_2CO_3
Molecular Weight: 105,99
CAS: 497-19-8

HEU210

Sodium carbonate 0.05 mol/l (0.1N) > RPE - NORMEX - For analysis — RPE

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
479211		Plastic ampoule	Volume : 55 ml

5,299 g of Na2CO3. Volumetric concentrated solution to prepare 1 L of solution 0,1 N

Sodium chloride

Sodio cloruro • Sodium chlorure • Sodio cloruro

Synonym:
Halite

NaCl
Molecular Weight: 58,44
CAS: 7647-14-5
EEC-N: 231-598-3

Sodium chloride > RS - For enviromental analysis — RS

Description .....White crystals Identification ..... Positive Hg .....≤0.005 ppm Assay (argentimetric) ..... ≥99.5 %

Code	Size	Packaging	Notes
479671	100 g	Glass bottle	

Low content in Hg

Sodium chloride > RS - For analysis according to Ph. Eur. Chap. 4.2.1 — RS

Code	Size	Packaging	Notes
612000600	250 g	Plastic bottle	Ref Ph.Eur 2000600

Sodium chloride > RS - Standard for volumetry — RS

Description ..... White crystals Identification ..... Positive Assay .....≥99.5 %

Code	Size	Packaging	Notes
479652	50 g	Glass bottle	

Sodium chloride > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description ..... White crystals
Identification ..... Positive
pH sol. 5% at 25° C ..... 5.0 ÷ 9.0
Loss on drying ..... ≤ 0.5 %
Appearance of solution ..... Conform
Bromide ..... ≤ 100 ppm
Nitrate,Chlorate (NO3) ..... ≤ 30 ppm
Phosphate ..... ≤ 5 ppm
Water-insoluble matter ..... ≤ 50 ppm
Iodide ..... ≤ 20 ppm
Heavy metals (Pb) ..... ≤ 5 ppm
Sulphate ..... ≤ 40 ppm
Al ..... ≤ 0.2 ppm
As ..... ≤ 1 ppm
Ca ..... ≤ 20 ppm
Ba ..... Conform
Fe ..... ≤ 2 ppm
K ..... ≤ 50 ppm
Mg ..... ≤ 10 ppm
Assay (argentimetric) .. 99.0 ÷ 100.5 % s.s.
Acidity or alkalinity ..... Conform
Nitrite ..... Conform
Ferrocyanide ..... ≤ 1 ppm
Magnesium and alkali metals .... ≤ 100 ppm

Code	Size	Packaging	Notes
479685	100 g	Plastic bottle	
479686	500 g	Plastic bottle	
479687	1 kg	Plastic bottle	
479689	5 kg	Plastic jar	
479681	25 kg	Plastic bucket	

Sodium chloride > RPE - For analysis - According to ASTM B117 ISO 9227/2006

RPE

Description ..... White crystalline powder
Identification ..... Positive
Heavy metals (Pb) ..... ≤ 5 ppm
Loss on drying ..... ≤ 0.5 %
Cu ..... ≤ 0.3 ppm
Ni ..... ≤ 10 ppm
Halogen (Iodide+Bromide+fluoride) ..... ≤ 0.1 %
Impurezze totali ..... ≤ 0.3 % s.s.
Assay (argentimetric) ..... ≥ 99.7 % s.s.

Code	Size	Packaging	Notes
479663	1 kg	Plastic bottle	
479662	5 kg	Plastic bucket	
479661	25 kg	Plastic bucket	

For salt spray tests

Sodium chloride > ERBApharm - According to pharmacopoeia : Ph.Eur.-Microbiological tested

ERBApharm

Description ..... White crystalline powder
Identification (I.R.) ..... Positive
Appearance of solution ..... Pass test
Acidity or alcalinity ..... Pass test
Barium ..... Pass test
Iodide ..... Pass test
Ferrocyanide ..... Pass test
Nitrite ..... Pass test
Loss on drying ..... ≤ 0.5 %
Mg,alkal.earth met.(Ca) ..... ≤ 100 ppm
Bromide ..... ≤ 100 ppm
Phosphate ..... ≤ 25 ppm
Heavy metals (Pb) ..... ≤ 5 ppm
Sulphate ..... ≤ 200 ppm
Al ..... ≤ 0.2 ppm
As ..... ≤ 1 ppm
Fe ..... ≤ 2 ppm
K ..... ≤ 500 ppm
Assay (argentimetric) ... 99.0 ÷ 100.5 % s.s
Total aerobic microbial count (TAMC) ≤ 100 CFU/g
Total yeasts/mould count (TYMC) ≤ 10 CFU/g

Code	Size	Packaging	Notes
368281	10 kg	Drum	

Sodium chloride > ERBApharm - According to pharmacopoeia : Ph.Eur.-FU-Ph.Franc.-BP-DAB-USP-JP

ERBApharm

Description ..... White crystalline powder
Identification ..... Positive
Appearance of solution ..... Conform Ph.Eur.
Acidity or alkalinity ..... Conform Ph.Eur.
Residue solvents ..... Conform USP
Barium ..... Conform Ph.Eur.
Iodide ..... Conform Ph.Eur.
Ferrocyanide ..... Conform Ph.Eur.
Nitrite ..... Conform Ph.Eur.
Loss on drying ..... ≤ 0.5 %
Mg,alkal.earth met.(Ca) ..... ≤ 100 ppm
Bromide ..... ≤ 100 ppm
Phosphate ..... ≤ 25 ppm
Heavy metals (Pb) ..... ≤ 3 ppm
Sulphate ..... ≤ 200 ppm
Al ..... ≤ 0.2 ppm
As ..... ≤ 1 ppm
Fe ..... ≤ 2 ppm
K ..... ≤ 500 ppm
Assay (argentimetric) .. 99.0 ÷ 100.5 % s.s.

Code	Size	Packaging	Notes
368257	1 kg	Plastic bottle	
368259	5 kg	Plastic jar	
368253	25 kg	Plastic bucket	

Sodium chloride 5 mol/l (5N)

Sodio cloruro 5 mol/l (5N) • Sodium chlorure 5 mol/l (5N) • Sodio cloruro 5 mol/l (5N)

Synonym:
Halite

NaCl
Molecular Weight: 58,44
CAS: 7647-14-5

Sodium chloride 5 mol/l (5N) > RPE - For analysis

RPE

Clear,colourless liquid ..... Conform
Assay (potentiometry) ..... 4.990 - 5.010 N

Code	Size	Packaging	Notes
502131	1 l	Bottle	

Content is guaranteed for standardized volumes at 20 °C

Sodium chloride 0.1 mol/l (0,1N)

Sodio cloruro 0.1 mol/l (0,1N) • Sodium chlorure 0.1 mol/l (0,1N) • Sodio cloruro 0.1 mol/l (0,1N)

Synonym:
Halite

NaCl
Molecular Weight: 58,44
CAS: 7647-14-5

Sodium chloride 0.1 mol/l (0,1N) > RPE - NORMEX - For analysis

RPE

Description ..... Clear colourless liquid
Identification ..... Positive
Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
479781		Plastic ampoule	Volume : 55 ml

5,844 g NaCl. Volumetric concentrated solution to prepare 1 L of solution 0,1 N

Sodium citrate dibasic sesquihydrate

Sodio citrato bibasico • Sodium citrate dibasique • Sodio citrato dibásico

Synonym:
Citric acid disodium salt

$C_6H_6O_7Na_2.1.5H_2O$
Molecular Weight: 263,1
CAS: 144-33-2
EEC-N: 205-623-3

Sodium citrate dibasic sesquihydrate > ERBApharm - According to pharmacopoeia : BP

ERBApharm

Description ..... White crystalline powder
Identification ..... Positive
Ready carbonizable substances Conform BP
pH solution 3% ..... 4.9 ÷ 5.2
Chloride..... ≤330 ppm
Heavy metals (Pb)..... ≤20 ppm
Oxalate..... ≤150 ppm
Sulphate ..... ≤0.12 %
As ..... ≤2 ppm
Assay (acidimetric) ..... 98.0 ÷ 104.0 %
Origin (BSE/TSE)..... Vegetable
Residual solvents (Current ICH)..... Conform

Code	Size	Packaging	Notes
367951	1 kg	Plastic bottle	

Sodium citrate tribasic anhydrous

Sodio citrato tribasico anidro • Sodium citrate tribasique anhydre • Sodio citrato tribásico anhidro

$Na_3C_6H_5O_7$
Molecular Weight: 258,12
CAS: 68-04-2
EEC-N: 200-675-3

Sodium citrate tribasic anhydrous > ERBApharm - According to pharmacopoeia : USP

ERBApharm

Description ..... White crystalline powder
Identification ..... Positive
Alcalinity..... Conform USP-NF
Tartrate..... Conform USP-NF
Loss at 180°C ..... ≤1.0 %
Heavy metals (Pb)..... ≤10 ppm
Assay (protonometric) . 99.0 ÷ 100.5 % s.s.

Code	Size	Packaging	Notes
368107	1 kg	Plastic bottle	

Sodium citrate tribasic dihydrate

Sodio citrato tribasico biidrato • Sodium citrate tribasique bihydraté • Sodio citrato tribásico dihidrato

Synonym:
Trisodium citrate dihydrate
Citric acid trisodium salt dihydrate

$Na_3C_6H_5O_7.2H_2O$
Molecular Weight: 294,1
CAS: 6132-04-3
EEC-N: 200-675-3

Sodium citrate tribasic dihydrate > RPE - For analysis

RPE

Description ..... White crystalline powder
Identification ..... Positive
Reducing iodine ..... Conform
Ready carbonizable substances..... Conform
pH sol. 5% at 25° C ..... 7.5 ÷ 8.7
Ammonium ..... ≤10 ppm
Chloride..... ≤10 ppm
Total phosphorus..... ≤10 ppm
Water-insoluble matter ..... ≤30 ppm
Heavy metals (Pb)..... ≤5 ppm
Oxalate..... ≤100 ppm
Total sulphur ..... ≤20 ppm
As ..... ≤0.2 ppm
Ca..... ≤20 ppm
Cu..... ≤2 ppm
Fe ..... ≤5 ppm
K..... ≤250 ppm
Ni..... ≤2 ppm
Pb ..... ≤2 ppm
Zn ..... ≤2 ppm
Assay (non-aqueos medium)..... ≥99 %

Code	Size	Packaging	Notes
479485	250 g	Plastic bottle	
479487	1 kg	Plastic bottle	
479488	2.5 kg	Plastic bottle	
479484	50 kg	Plastic bucket	

Sodium citrate tribasic dihydrate > ERBApharm - According to pharmacopoeia : Ph.Eur.-USP-FU-BP-DAB

ERBApharm

Description ..... White crystalline powder
Identification ..... Positive
Appearance of solution .....Conform Ph.Eur.
Acidity or alkalinity.....Conform Ph.Eur.
Ready carbonizable substances.....Conform Ph.Eur.
Tartrate..... Conform USP-NF
Water (K.F.) .....11.0 ÷ 13.0 %
Chloride.....≤50 ppm
Heavy metals (Pb).....≤10 ppm
Oxalate.....≤300 ppm
Sulphate.....≤150 ppm
Assay (protonometric) .99.0 ÷ 100.5 % s.s.

Code	Size	Packaging	Notes
368057	1 kg	Plastic bottle	
368058	5 kg	Plastic jar	
368052	10 kg	Plastic jar	
368051	25 kg	Plastic bucket	
368054	50 kg	Fibre drum	

Sodium citrate tribasic dihydrate

Sodio citrato tribasico diidrato • Sodium citrate tribasique dihydraté • Sodio citrato tribásico dihidrato

Synonym:
Citric acid trisodium salt

$Na_3C_6H_5O_7.2H_2O$
Molecular Weight: 294.10
CAS: 6132-04-3
EEC-N: 200-675-3

Sodium citrate tribasic dihydrate > RE - Pure

RE

Description .....White crystalline powder
Identification ..... Positive
Assay (non-aqueos medium)..... ≥99 % s s

Code	Size	Packaging	Notes
368007	1 kg	Plastic bottle	
368009	5 kg	Plastic jar	

Sodium cobalt nitrite

Sodio cobalto nitrito • Sodium cobalt nitrite • Sodio cobalto nitrito

Synonym:
Sodium hexanitrocobaltate(III)

$Na_3Co(NO_2)_6$
Molecular Weight: 403,94
CAS: 13600-98-1
EEC-N: 237-077-7

Classification transport
ONU: 1479
Transport Hazard class: 5.1
Packing group II

Danger
H272-H315-H319-H334-H317-H351-H335
P210-P280-P304+P312a-P305+P351+P338-P302+P334

Sodium cobalt nitrite > RPE - For analysis

RPE

Description ..... Dark orange powder
Identification ..... Positive
Diluted acetic acid insoluble matter . ≤ 0.02 %
Suitabily for K determ. .....Conform
Chloride.....≤ 50 ppm
Sulphate.....≤ 100 ppm
Fe .....≤ 5 ppm
K.....≤ 100 ppm

Code	Size	Packaging	Notes
479833	50 g	Glass bottle	

Sodium cyanoborohydride

Sodio cianoboroidruro • Sodium cyanoborohydrure • Sodio cianoborohidruro

Synonym:
Sodium cyanoborohydride
Sodium cyanotrihydridoborate

$Na(H_3BCN)$
Molecular Weight: 62,84
CAS: 25895-60-7
EEC-N: 247-317-2

Classification transport
ONU: 1409
Transport Hazard class: 4.3
Packing group I

Danger
H260-H314-HEU032
P223-P264-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Sodium cyanoborohydride > RPE - For analysis

RPE

Description ..... White powder
Identification ..... Positive
Assay (iodometric)..... ≥90 % s s

Code	Size	Packaging	Notes
479371	25 g	Glass bottle	

Sodium 1-decanesulfonate ▶ 1-Decanesulfonic acid sodium salt

a b c d e f g h i j k l m n o p q r s t u v w x y z

Sodium dichloroisocyanurate dihydrate

Sodio dicloroisocianurato biidrato • Sodium dichloroisocyanurate dihydraté • Sodio dicloroisocianurato dihidrato

Synonym: *Dichloroisocyanuric acid sodium salt dihydrate*

$C_3Cl_2N_3NaO_3.2H_2O$
Molecular Weight: 255,98
CAS: 51580-86-0
EEC-N: 220-767-7

Classification transport
ONU: 3077
Transport Hazard class: 9
Packing group III

Warning
H302-H319-H335-H410-HEU031
P264-P273-P271-P304+P340-P305+P351+P338-P330

Sodium dichloroisocyanurate dihydrate > RPE - For analysis

RPE

Description ..... White granular powder
Identification ..... Positive
Assay ..... ≥ 98.0 %

Code	Size	Packaging	Notes
479921	10 g	Glass bottle	

Sodium diethyldithiocarbamate trihydrate

Sodio dietilditiocarbammato triidrato • Sodium diéthyldithiocarbamate trihydraté • Sodio dietilditiocarbamato trihidrato

Synonym: *Diethyldithiocarbamic acid sodium salt*

$(C_2H_5)_2NCSSNa.3H_2O$
Molecular Weight: 225,23
CAS: 20624-25-3
EEC-N: 205-710-6

Warning
H302-H351
P264-P281-P270-P308+P313-P330-P301+P312a

Sodium diethyldithiocarbamate trihydrate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description ..... Whyte-yellow crystals
Identification (I.R.) ..... Conform
Copper sensitivity ..... Conform
Water solubility ..... Conform
Sodium (Na2SO4) ..... 30.5 ÷ 32.5 %

Code	Size	Packaging	Notes
405144	100 g	Plastic bottle	

Indicator for the determination of heavy metals

Sodium dihydrogen phosphate dihydrate ▶ Sodium phosphate monobasic dihydrate

Sodium dihydrogen phosphate monohydrate ▶ Sodium phosphate monobasic monohydrate

Sodium 1-dodecanesulfonate ▶ 1-Dodecanesulfonic acid sodium salt

Sodium dodecylbenzenesulfonate ▶ Dodecylbenzenesulphonic acid sodium salt

Sodium dodecyl sulfate ▶ Sodium laurylsulfate

Sodium fluoride

Sodio fluoruro • Sodium fluorure • Sodio fluoruro

NaF
Molecular Weight: 41,99
CAS: 7681-49-4
EEC-N: 231-667-8

Classification transport
ONU: 1690
Transport Hazard class: 6.1
Packing group III

Danger
H301-H315-H319-HEU032
P264-P305+P351+P338-P301+P310a-P330-P332+P313-P337+P313

Sodium fluoride > RPE - For analysis - ACS - ISO

RPE

Description ..... White crystalline powder
Identification ..... Positive
Loss on drying ..... ≤0.3 %
Acidity ..... ≤0.03 meq/g
Alcalinity ..... ≤0.01 meq/g
Chloride ..... ≤50 ppm
Fluosilicates ..... ≤0.1 %
Water-insoluble matter ..... ≤200 ppm
Heavy metals (Pb) ..... ≤30 ppm
Sulphate ..... ≤300 ppm
Sulphite ..... ≤50 ppm
Fe ..... ≤30 ppm
K ..... ≤200 ppm
Assay (acidimetric) ..... ≥99 %

Code	Size	Packaging	Notes
479955	250 g	Plastic bottle	
479957	1 kg	Plastic bottle	
479954	25 kg	Plastic bucket	

Sodium fluoride > RE - Pure

RE

Description ..... White crystalline powder
Identification ..... Positive
Chloride ..... ≤ 100 ppm
Heavy metals (Pb) ..... ≤ 100 ppm
Sulphate ..... ≤ 5000 ppm
Fe ..... ≤ 200 ppm
Assay ..... ≥ 97 %

Code	Size	Packaging	Notes
368457	1 kg	Plastic bottle	
368458	5 kg	Plastic jar	
368451	25 kg	Plastic bucket	

Sodium formate

Sodio formiato • Sodium formiate • Sodio formiato

Synonym:
Formic acid sodium salt

HCOONa
Molecular Weight: 68,01
CAS: 141-53-7
EEC-N: 205-488-0

Warning
H319
P264-P280-P305+P351+P338-P337+P313

Sodium formate > RPE - For analysis - ACS

RPE

Description ..... White crystalline powder
Identification ..... Positive
Not soluble matter ..... ≤ 50 ppm
Chloride ..... ≤ 10 ppm
Sulphate ..... ≤ 10 ppm
Ca ..... ≤ 50 ppm
Fe ..... ≤ 5 ppm
Heavy metals (Pb) ..... ≤ 5 ppm
Assay (oxidimetric) ..... ≥ 99.0 %

Code	Size	Packaging	Notes
480045	100 g	Plastic bottle	
480046	500 g	Plastic bottle	

Sodium gluconate

Sodio gluconato • Sodium gluconate • Sodio gluconato

Synonym:
2,3,4,5,6-Pentahydroxycaproic acid sodium salt
D-gluconate sodium salt

$C_6H_{11}NaO_7$
Molecular Weight: 218,13
CAS: 527-07-1
EEC-N: 208-407-7

Sodium gluconate > RE - Pure

RE

Description ..... White powder
Identification ..... Positive
Chloride ..... ≤500 ppm
Red.ing sugars(Glucose) ..... ≤1 %
Assay (non-aqueos medium) ..... ≥98 %

Code	Size	Packaging	Notes
369582	1 kg	Plastic bottle	

Sodium glutamate acid

Sodio glutammato acido • Sodium glutamate • Sodio glutamato acido

Synonym:
L-Glutamic acid monosodium salt hydrate
L-2-Aminopentanedioic acid

$C_5H_8NO_4Na.H_2O$
Molecular Weight: 187
CAS: 142-47-2
EEC-N: 205-538-1

Sodium glutamate acid > RE - Pure

RE

Description ..... White cryst. need.sha
Identification ..... Positive
Potere rotator. specif.(C=1 HCl 6N).. +23 ÷ +25.3 °
Assay (ex nitrogen) ..... ≥ 98 %

Code	Size	Packaging	Notes
369667	1 kg	Plastic bottle	

Sodium glycerophosphate pentahydrate

Sodio glicerofosfato pentaidrato • Sodium glycérophosphate pentahydraté • Sodio glicerofosfato pentahidrato

Synonym:
Glycerol-2-phosphate disodium salt hydrate
BGP

$C_3H_7O_6PNa_2.5H_2O$
Molecular Weight: 306.0
CAS: 13408-09-8

Sodium glycerophosphate pentahydrate > ERBApharm - According to pharmacopoeia : Ph.Eur.

ERBApharm

Description ..... White crystalline powder
Identification ..... Positive
Phosphate ..... ≤ 0.1 %
Heavy metals (Pb).....≤ 20 ppm
Fe .....≤ 20 ppm
Appearance of solution .....Conform Ph.Eur.
Alcalinity.....Conform Ph.Eur.
Water (K.F.) .....25.0 ÷ 35.0 %
Chloride..... ≤ 0.02 %
Glycerol and alcohol-soluble substances.. ≤ 1.0 %
Sulphate..... ≤ 0.05 %
Assay .....98.0 ÷ 105.0 % anidro

Code	Size	Packaging	Notes
369447	1 kg	Plastic bottle	
369449	5 kg	Plastic jar	

Sodium 1-heptanesulfonate ▶ 1-Heptanesulphonic acid sodium salt

Sodium hexafluorosilicate

Sodio esafluorosilicato • Sodium hexafluorosilicate • Sodio hexafluorosilicato

Na_2SiF_6
Molecular Weight: 188,06
CAS: 16893-85-9
EEC-N: 240-934-8

Classification transport
ONU: 2674
Transport Hazard class: 6.1
Packing group III

Danger
H301-H311-H331
P264-P271-P304+P340-P301+P310a-P312a-P330

Sodium hexafluorosilicate > RPE - For analysis

RPE

Description ..... White crystalline powder
Identification ..... Positive
Chloride.....≤200 ppm
Sulphate.....≤200 ppm
Heavy metals (Pb).....≤50 ppm
Fe .....≤50 ppm
Assay (acidimetric) ..... ≥98.5 %

Code	Size	Packaging	Notes
480005	250 g	Plastic bottle	

Sodium hexametaphosphate

Sodio esametafosfato • Sodium hexamétaphosphate • Sodio hexametafosfato

Synonym:
Sodium metaphosphate

$(NaPO_3)_6$
Molecular Weight: 611,76
CAS: 10124-56-8
EEC-N: 233-343-1

Sodium hexametaphosphate > RE - Pure

RE

Description .....White crystalline powder
Identification ..... Positive
pH sol. 0.25% at 25° C ..... 6.5 ÷ 7.5
Chloride.....≤700 ppm
Heavy metals (Pb).....≤25 ppm
Sulphate.....≤0.24 %
Total P205.....≥66 %
As .....≤5 ppm
Fe .....≤500 ppm

Code	Size	Packaging	Notes
368357	1 kg	Plastic bottle	
368352	25 kg	Plastic bucket	

Sodium 1-hexanesulfonate ▶ 1-Hexanesulphonic acid sodium salt

Sodium 1-hexanesulfonate monohydrate ▶ 1-Hexanesulphonic acid sodium salt monohydrate

Sodium hexanitrocobaltate(III) ▶ Sodium cobalt nitrite

Sodium hydrogen carbonate ▶ Sodium bicarbonate

di-Sodium hydrogen phosphate ▶ Sodium phosphate dibasic anhydrous

di-Sodium hydrogen phosphate dihydrate ▶ Sodium phosphate dibasic dihydrate

di-Sodium hydrogen phosphate dodecahydrate ▶ Sodium phosphate dibasic dodecahydrate

Sodium hydrogen sulfate monohydrate ▶ Sodium bisulfate monohydrate

Sodium hydrogen tartrate monohydrate

Sodio tartrato acido • Sodium tartrate acide • Sodio tartrato acido

Synonym:
Sodium bitartrate monohydrate

$NaOOC(CHOH)_2COOH.H_2O$
Molecular Weight: 190,09
CAS: 526-94-3
EEC-N: 208-400-9

Sodium hydrogen tartrate monohydrate > RPE - For analysis

RPE

Description .....White crystals
Identification .....Positive
pH sol. 5% at 25° C .....3.30 ÷ 3.60
Loss on drying .....9 ÷ 10 %
Ammonium .....≤ 50 ppm
Chloride.....≤ 10 ppm
Total phosphorus.....≤ 10 ppm
Water-insoluble matter .....≤ 50 ppm
Heavy metals (Pb).....≤ 10 ppm
Total sulphur .....≤ 50 ppm
As .....≤ 0.4 ppm
Ca.....≤ 100 ppm
Cu.....≤ 2 ppm
Fe .....≤ 10 ppm
K.....≤ 100 ppm
Ni.....≤ 2 ppm
Pb.....≤ 2 ppm
Zn.....≤ 2 ppm
Assay (acidimetric) ..... ≥ 99.5 %

Code	Size	Packaging	Notes
483706	500 g	Plastic bottle	
483703	25 kg	Fibre drum	

Sodium hydrosulfite

Sodio idrosolfito • Sodium hydrosulfite • Sodio hidrosulfito

$Na_2S_2O_4$
Molecular Weight: 174,11
CAS: 7775-14-6
EEC-N: 231-890-0

Classification transport
ONU: 1384
Transport Hazard class: 4.2
Packing group II

Danger
H251-H302-H319-HEU031
P264-P280a-P305+P351+P338-P330-P337+P313-P301+P312a

Sodium hydrosulfite > RE - Pure

RE

Description .....White crystalline powder
Identification ..... Positive
Assay (oxidimetric) .....≥ 80 %

Code	Size	Packaging	Notes
370011	1 kg	Bottle	
370014	2.5 kg	Metal bucket	
370012	25 kg	Drum	

Sodium hydroxide, pearls

Sodio idrossido, perline • Sodium hydroxyde, perles • Sodio hidróxido, perlas

Synonym:
Caustic soda

NaOH
Molecular Weight: 40
CAS: 1310-73-2
EEC-N: 215-185-5

Classification transport
ONU: 1823
Transport Hazard class: 8
Packing group II

Danger
H314
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Sodium hydroxide, pearls > ERBApharm - According to pharmacopoeia : Ph.Eur.-NF

ERBApharm

Description ..... Pearls white
Identification ..... Positive
Appearance of solution ..... Conform Ph. Eur.
Not sol.matter,org.mat ..... Conform NF
K ..... Conform NF
pH ..... ≥ 11.0
Carbonate ..... ≤ 2.0 %
Chloride ..... ≤ 200 ppm
Heavy metals (Pb) ..... ≤ 20 ppm
Sulphate ..... ≤ 200 ppm
Fe ..... ≤ 10 ppm
Assay (total alkalin.) ..... 97.0 ÷ 100.5 %
Origin (BSE/TSE) ..... Synthesis
Residual solvents (Current ICH) ..... Conform

Code	Size	Packaging	Notes
369743	1 kg	Plastic bottle	
369741	5 kg	Plastic jar	
369742	25 kg	Sack	
369744	25 kg	Plastic bucket	

Sodium hydroxide, pellets

Sodio idrossido, gocce • Sodium hydroxyde, pastilles • Sodio hidróxido, lentejas

Synonym:
Caustic soda

NaOH
Molecular Weight: 40
CAS: 1310-73-2
EEC-N: 215-185-5

Classification transport
ONU: 1823
Transport Hazard class: 8
Packing group II

Danger
H314
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Sodium hydroxide, pellets > RS - RSE - For electronic use

RS

Description ..... White pellets
Identification ..... Positive
Total nitrogen ..... ≤3 ppm
Carbonate ..... ≤5000 ppm
Chloride ..... ≤10 ppm
Phosphate ..... ≤5 ppm
Heavy metals (Pb) ..... ≤2 ppm
Silicate ..... ≤20 ppm
Sulphate ..... ≤5 ppm
Al ..... ≤2 ppm
As ..... ≤0.5 ppm
Ca ..... ≤5 ppm
Cd ..... ≤0.1 ppm
Cu ..... ≤0.5 ppm
Fe ..... ≤3 ppm
Hg ..... ≤0.1 ppm
K ..... ≤100 ppm
Mg ..... ≤5 ppm
Mn ..... ≤0.5 ppm
Ni ..... ≤2 ppm
Pb ..... ≤1 ppm
Zn ..... ≤1 ppm
Assay (alkalimetric) ..... ≥98.5 %

Code	Size	Packaging	Notes
480527	1 kg	Plastic bottle	
480522	5 kg	Plastic jar	
480525	25 kg	Sack	

Sodium hydroxide, pellets > RPE - For analysis - ACS - ISO

RPE

Description ..... White pellets
Identification ..... Positive
Total nitrogen ..... ≤ 10 ppm
Carbonate ..... ≤ 1.0 %
Chloride ..... ≤ 50 ppm
Phosphate ..... ≤ 10 ppm
Sulphate ..... ≤ 30 ppm
Heavy metals (Ag) ..... ≤ 20 ppm
Ca ..... ≤ 50 ppm
Fe ..... ≤ 10 ppm
Hg ..... ≤ 0.1 ppm
K ..... ≤ 0.02 %
Mg ..... ≤ 20 ppm
Ni ..... ≤ 10 ppm
Assay (alkalimetric) ..... ≥ 97.0 %

Code	Size	Packaging	Notes
480505	100 g	Plastic bottle	
480501	500 g	Plastic bottle	
480507	1 kg	Plastic bottle	
480509	5 kg	Plastic jar	
480502	10 kg	Plastic jar	
480508	25 kg	Plastic bucket	

Sodium hydroxide, pellets > ERBApharm - According to pharmacopoeia : BP-NF-Ph.Eur.-JP

ERBApharm

Description ..... Gocce bianche o quasi
Identification ..... Positive
Appearance of solution .....Conform Ph.Eur.
Not sol.matter,org.mat. .... Conform USP-NF
K..... Conform USP-NF
pH..... ≥11.0
Carbonate..... ≤2.0 %
Chloride.....≤200 ppm
Heavy metals (Pb)..... ≤ 30 ppm (JP)
Sulphate.....≤200 ppm
Fe .....≤10 ppm
Assay (total alkalin.).....97.0 ÷ 100.5 %
Origin (BSE/TSE)..... Synthesis
Residual solvents (Current ICH).....Conform
Hg.....≤ 0.1 ppm

Code	Size	Packaging	Notes
369777	1 kg	Plastic bottle	
369772	5 kg	Plastic jar	
369771	20 kg	Plastic bucket	
369774	25 kg	Plastic bucket	

Sodium hydroxide on silica

Sodio idrossido su silice • Sodium hydroxyde sur silice (Ø mm 1.6-3) • Sodio hidróxido sobre sílice

Synonym: *Caustic soda*

NaOH
Molecular Weight: 40
CAS: 1310-73-2

Classification transport
ONU: 1823
Transport Hazard class: 8
Packing group II

Danger
H314-H318-H335
P264-P271-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Sodium hydroxide on silica > RS - For microanalysis

RS

Description .....Dark grey granules
Identification ..... Positive
Average grain diameter.....1.6 ÷ 3 mm ca.
CO2 absorption ..... ≥30 %

Code	Size	Packaging	Notes
424494	100 g	Glass bottle	
424497	1 kg	Plastic bottle	

Sodium hydroxide solution 50%

Sodio idrossido soluzione 50% • Sodium hydroxyde solution 50% • Sodio hidróxido solución 50%

Synonym: *Caustic soda*

NaOH
Molecular Weight: 40
CAS: 1310-73-2

Classification transport
ONU: 1824
Transport Hazard class: 8
Packing group II

Danger
H290-H314-H318
P264-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Sodium hydroxide solution 50% > RPE - For analysis

RPE

Assay ..... 48 - 51.5 %
Iron (Fe).....≤ 15 mg/Kg
Density d20/4 ..... 1.5 - 1.54
Na2CO3 .....≤ 0.7 %
NaCl.....≤ 0.02 %

Code	Size	Packaging	Notes
P4540041	10 l	Plastic tank	
P4540049	25 l	Plastic tank	

Sodium hydroxide solution 40%

Sodio idrossido soluzione 40% • Sodium hydroxyde solution 40% • Sodio hidróxido solución 40%

Synonym: *Caustic soda*

NaOH
Molecular Weight: 40
CAS: 1310-73-2

Classification transport
ONU: 1824
Transport Hazard class: 8
Packing group II

Danger
H290-H314-H318
P264-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Sodium hydroxide solution 40% > RS - For agroalimentary analysis

RS

Colour ..... ≤ 10 APHA
Description ..... Clear colourless liquid
Density at 20°C ..... 1.420 ÷ 1.440
Assay ..... 39.0 ÷ 41.0 %
Total nitrogen ..... ≤ 10 ppm

Code	Size	Packaging	Notes
502721	5 l	Plastic tank	

572 g of NaOH for 1 L

Sodium hydroxide solution 35-37%

Sodio idrossido soluzione 35-37% • Sodium hydroxyde solution 35-37% • Sodio hidróxido solución 35-37%

Synonym: *Caustic soda*

NaOH
Molecular Weight: 40
CAS: 1310-73-2

Classification transport
ONU: 1824
Transport Hazard class: 8
Packing group II

Danger
H290-H314-H318
P264-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Sodium hydroxide solution 35-37% > RS - For agroalimentary analysis

RS

Description ..... Clear colourless liquid Colour ..... ≤ 10 APHA Density at 20°C ..... 1.380 ÷ 1.400 Nitrogen compounds ..... ≤ 10 ppm

Code	Size	Packaging	Notes
502112	5 l	Plastic tank	
502113	25 l	Plastic tank	

500g of NaOH for 1L . According to normative T90-110

Sodium hydroxide solution 35%

Sodio idrossido soluzione 35% • Sodium hydroxyde solution 35% • Sodio hidróxido solución 35%

Synonym: *Caustic soda*

NaOH
Molecular Weight: 40
CAS: 1310-73-2

Classification transport
ONU: 1824
Transport Hazard class: 8
Packing group II

Danger
H290-H314-H318
P264-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Sodium hydroxide solution 35% > RPE - For analysis

RPE

Description ..... Clear colourless liquid Density at 20° C ..... 1.38 - 1.39 Assay (alkalimetric) ..... 35 - 36 %

Code	Size	Packaging	Notes
480591	1 l	Plastic bottle	
480593	25 kg	Plastic tank	

Sodium hydroxide solution 32%

Sodio idrossido soluzione 32% • Sodium hydroxyde solution 32% • Sodio hidróxido solución 32%

Synonym: *Caustic soda*

NaOH
Molecular Weight: 40
CAS: 1310-73-2

Classification transport
ONU: 1824
Transport Hazard class: 8
Packing group II

Danger
H290-H314-H318
P264-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Sodium hydroxide solution 32% > RS - For agroalimentary analysis

RS

Assay ..... 30 - 34 % Density at 20°C ..... 1.322 - 1.374 Fe ..... ≤ 10 ppm

Code	Size	Packaging	Notes
524510	25 kg	Plastic tank	

Sodium hydroxide solution 32% > RS - For Kjeldahl

RS

Description ..... Slightly opalescent liquid Assay ..... 31.0 - 33.0 % Nitrogen compounds ..... ≤ 1 ppm
Colour ..... ≤ 10 APHA Density at 20°C ..... 1.339 - 1.359

Code	Size	Packaging	Notes
480561	1 l	Plastic bottle	
480566	2.5 l	Plastic bottle	
526521	5 l	Plastic tank	
480564	10 l	Plastic tank	
480562	25 kg	Plastic tank	
480563	30 kg	Plastic tank	

Sodium hydroxide solution 30%

Sodio idrossido soluzione 30% • Sodium hydroxyde solution 30% • Sodio hidróxido solución 30%

Synonym: *Caustic soda*

NaOH
Molecular Weight: 40
CAS: 1310-73-2

Classification transport
ONU: 1824
Transport Hazard class: 8
Packing group II

Danger
H290-H314-H318
P264-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Sodium hydroxide solution 30% > RS - For agroalimentary analysis

RS

Description ..... Slightly opalescent liquid
Colour ..... ≤ 10 APHA
Density at 20°C .....≥ 1.323

Code	Size	Packaging	Notes
502741	5 l	Plastic tank	

Sodium hydroxide solution 30% > RPE - For nitrogen dosing

RPE

Description ..... Clear colourless liquid
Colour ..... ≤ 10 APHA
Density at 20°C ..... 1.323 ÷ 1.333
Total nitrogen ..... ≤ 1 ppm
Assay ..... 29.5 ÷ 30.5 %

Code	Size	Packaging	Notes
502731	1 l	Plastic bottle	

Sodium hydroxide solution 30% > ERBApharm - Prepared from raw material according Ph.Eur

ERBApharm

Description ..... Clear colourless liquid
Colour ..... ≤ 10 APHA
Identification ..... Positive
Density at 20°C ..... 1.311 ÷ 1.344
Chloride ..... ≤ 200 ppm
Sulphate ..... ≤ 200 ppm
Iron ..... ≤10 ppm
Heavy metals (Pb) ..... ≤ 20 ppm
Carbonate ..... ≤ 0.6 %
Assay ..... 29.5 ÷ 30.5 %

Code	Size	Packaging	Notes
369704	1 l	Plastic bottle	
369702	20 l	Plastic tank	
369701000	10 kg	Plastic tank	

Sodium hydroxide solution 30% > RE - Pure

RE

Description ..... Opalescent liquid
Identification ..... Positive
Density at 20° C ..... 1.306 - 1.349
Alcalinity (NaOH) ..... 28.0 ÷ 32.0 %
Carbonate ..... ≤1.2 %
Chloride ..... ≤300 ppm
Sulphate ..... ≤150 ppm
Fe ..... ≤30 ppm

Code	Size	Packaging	Notes
369762	10 kg	Plastic tank	
369761	30 kg	Plastic tank	
369766	50 kg	Plastic tank	

Sodium hydroxide solution 20% w/v

Sodio idrossido soluzione 20% p/v • Sodium hydroxyde solution 20% m/v • Sodio hidróxido solución 20% p/v

Synonym: *Caustic soda*

NaOH
Molecular Weight: 40
CAS: 1310-73-2

Classification transport
ONU: 1824
Transport Hazard class: 8
Packing group II

Danger
H290-H314-H318
P264-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Sodium hydroxide solution 20% w/v > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611081401	1 l	Plastic bottle	Ref Ph.Eur 1081401

Sodium hydroxide solution 20% w/w

Sodio idrossido soluzione 20% p/p • Sodium hydroxyde solution à 20% m/m • Sodio hidróxido solución 20% p/p

NaOH
Molecular Weight: 40
CAS: 1310-73-2

Classification transport
ONU: 1824
Transport Hazard class: 8
Packing group II

Danger
H290-H314-H318
P264-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Sodium hydroxide solution 20% w/w > RPE - For analysis

RPE

Description ..... Clear colourless liquid Density at 20° C ..... 1.213 - 1.225 Assay (alkalimetric)..... 19.5 - 20.5 % Carbonate..... ≤1 %

Code	Size	Packaging	Notes
480621	1 l	Plastic bottle	
480622	30 kg	Plastic drum	

Sodium hydroxide solution 10% w/v

Sodio idrossido soluzione 10% p/v • Sodium hydroxyde solution 10% m/v • Sodio hidróxido solución 10% p/v

Synonym: *Caustic soda*

NaOH
Molecular Weight: 40
CAS: 1310-73-2

Classification transport
ONU: 1824
Transport Hazard class: 8
Packing group II

Danger
H290-H314-H318
P264-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Sodium hydroxide solution 10% w/v > RS - For agroalimentary analysis

RS

Description ..... Slightly opalescent liquid Identification ..... Positive Assay (NaOH)..... 9 - 11 %m/v

Code	Size	Packaging	Notes
508615	5 l	Plastic tank	

Sodium hydroxide solution 10% w/v > RPE - For analysis

RPE

Description ..... Slightly opalescent liquid Colour ..... ≤ 10 APHA Assay (NaOH)..... 9.9 ÷ 10.1 %m/v

Code	Size	Packaging	Notes
524506	5 l	Plastic tank	
524507	10 l	Plastic tank	

Sodium hydroxide solution 10% w/v > RE - Pure

RE

Description ..... Slightly opalescent liquid Colour ..... ≤ 10 APHA Assay (NaOH)..... 9.5 - 10.5 %m/v

Code	Size	Packaging	Notes
526642	5 l	Plastic tank	
526641	10 l	Plastic tank	

Sodium hydroxide solution 5% w/v

Sodio idrossido soluzione 5% p/v • Sodium hydroxyde solution 5% m/v • Sodio hidróxido solución 5% w/v

Synonym: *Caustic soda*

NaOH
Molecular Weight: 40
CAS: 1310-73-2

Classification transport
ONU: 1824
Transport Hazard class: 8
Packing group II

Danger
H290-H314-H318
P264-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Sodium hydroxide solution 5% w/v > RPE - For analysis

RPE

Description ..... Sightly opalescent liquid Colour ..... ≤ 10 APHA Assay (NaOH)..... 4.9 ÷ 5.1 %m/v

Code	Size	Packaging	Notes
524502	5 l	Plastic tank	
524501	10 l	Plastic tank	

Sodium hydroxide solution 5% w/v > RE - Pure

RE

Description ..... Sightly opalescent liquid Colour ..... ≤ 10 APHA Assay (NaOH)..... 4.5 - 5.5 %m/v

Code	Size	Packaging	Notes
526632	5 l	Plastic tank	
526634	10 l	Plastic tank	

Sodium hydroxide 200g/l

Sodio idrossido 200g/l • Sodium hydroxyde 200g/l • Sodio hidróxido 200g/l

Synonym: *Caustic soda*

NaOH
Molecular Weight: 40.00
CAS: 1310-73-2

Classification transport
ONU: 1824
Transport Hazard class: 8
Packing group II

Danger
H290-H314-H318
P264-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Sodium hydroxide 200g/l > RE - Pure

RE

Concentration .....199.6 - 200.4 g/l

Code	Size	Packaging	Notes
PS0858/49	25 l	Plastic tank	

Sodium hydroxide 40g/l

Sodio idrossido 40g/l • Sodium hydroxyde 40g/l • Sodio hidróxido 40g/l

Synonym: *Caustic soda*

NaOH
Molecular Weight: 40
CAS: 1310-73-2

Classification transport
ONU: 1824
Transport Hazard class: 8
Packing group II

Danger
H314-H318
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Sodium hydroxide 40g/l > RE - Pure

RE

Concentration .....39 - 41 g/l

Code	Size	Packaging	Notes
PS0320/41	10 l	Plastic tank	

Sodium hydroxide solution

Sodio idrossido soluzione • Sodium hydroxyde solution • Sodio hidróxido solución

Synonym: *Caustic soda*

NaOH
Molecular Weight: 40
CAS: 1310-73-2

Classification transport
ONU: 1824
Transport Hazard class: 8
Packing group II

Danger
H290-H314-H318
P264-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Sodium hydroxide solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611081402	1 l	Plastic bottle	Ref Ph.Eur 1081402
611081404	1 l	Plastic bottle	Sodium hydroxide solution, strong Ref Ph.Eur 1081404

Sodium hydroxide solution, methanolic

Sodio idrossido soluzione, metanolica • Sodium hydroxyde solution dans le méthanol • Sodio hidróxido solución, metanólico

Synonym: *Caustic soda*

NaOH
Molecular Weight: 40
CAS: 1310-73-2

Classification transport
ONU: 2810

Sodium hydroxide solution, methanolic > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611081405	100 ml	Glass bottle	Sodium hydroxide solution, methanolic R1 Ref Ph.Eur 1081405

Sodium hydroxide 5 mol/l (5N)

Sodio idrossido 5 mol/l (5N) • Sodium hydroxyde 5 mol/l(5N) • Sodio hidróxido 5 mol/l (5N)

Synonym: *Caustic soda*

NaOH
Molecular Weight: 40
CAS: 1310-73-2

Classification transport
ONU: 1824
Transport Hazard class: 8
Packing group II

Danger
H290-H314-H318
P264-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Sodium hydroxide 5 mol/l (5N) > RS - For agroalimentary analysis

RS

Description ..... Clear colourless liquid Assay ..... 4.995 ÷ 5.005 N

Code	Size	Packaging	Notes
526513	1 l	Glass bottle	
526512	5 l	Plastic tank	

Content is guaranteed for standardized volumes at 20°C

Sodium hydroxide 3 mol/l (3N)

Sodio idrossido 3 mol/l (3N) • Sodium hydroxyde 3 mol/l (3N) • Sodio hidróxido 3 mol/l (3N)

Synonym: *Caustic soda*

NaOH
Molecular Weight: 40
CAS: 1310-73-2

Classification transport
ONU: 1824
Transport Hazard class: 8
Packing group II

Danger
H290-H314-H318
P264-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Sodium hydroxide 3 mol/l (3N) > ERBApharm - Prepared from raw material according Ph.Eur

ERBApharm

Identification (Ph.Eur).....Conform Assay (Ph.Eur).....2.85 - 3.15 N Origine (BSE-TSE).....Conform Residual solvents (Current ICH).....Conform

Code	Size	Packaging	Notes
524732	500 ml	Bottle	

Sodium hydroxide 2.5 mol/l (2.5N)

Sodio idrossido 2.5 mol/l (2.5N) • Sodium hydroxyde 2.5 mol/l (2.5N) • Sodio hidróxido 2.5 mol/l (2.5N)

Synonym: *Caustic soda*

NaOH
Molecular Weight: 40
CAS: 1310-73-2

Classification transport
ONU: 1824
Transport Hazard class: 8
Packing group II

Danger
H290-H314-H318
P264-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Sodium hydroxide 2.5 mol/l (2.5N) > RPE - For analysis

RPE

Assay (potentiomety) .....2.45 - 2.55 N

Assay ..... ≥ 99 %

Na_2CO_3 ..... ≤ 0.4 %
Na_2SO_4..... ≤ 0.006 %
Heavy metals (as Pb) .....≤ 20 mg/Kg

Iron (Fe).....≤ 10 mg/Kg
Arsenic (As) .....≤ 3 mg/Kg
Lead (Pb).....≤ 0.5 mg/Kg

Mercury (Hg).....≤ 0.05 mg/Kg

Code	Size	Packaging	Notes
PS0594/41	10 l	Plastic tank	
PS0594/42	20 l	Plastic tank	
PS0594/66	200 l	Polythene-metal drum	

Sodium hydroxide 2 mol/l (2N)

Sodio idrossido 2 mol/l (2N) • Sodium hydroxyde 2 mol/l (2N) • Sodio hidróxido 2 mol/l (2N)

Synonym: *Caustic soda*

NaOH
Molecular Weight: 40
CAS: 1310-73-2

Classification transport
ONU: 1824
Transport Hazard class: 8
Packing group II

Danger
H290-H314-H318
P264-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Sodium hydroxide 2 mol/l (2N) > RPE - For analysis

RPE

Description ..... Clear colourless liquid Assay (potentiometry) ..... 1.998 - 2.002 N NIST 84 I

Code	Size	Packaging	Notes
480686000	500 ml	Plastic bottle	
480687000	1 l	Plastic bottle	
480682000	5 l	Plastic tank	
480681000	10 l	Kubidos	
480684000	20 l	Plastic tank	

80 g de NaOH. Volumetric solution ready-to-use : 2N. Traceable to NIST

Sodium hydroxide 2 mol/l (2N) > ERBApharm - Prepared from raw material according Ph.Eur

ERBApharm

Identification (Ph.Eur)..... Conform Assay (Ph.Eur)..... 1.9 -2.1 N Origine (BSE-TSE)..... Conform Residual solvents (Current ICH)..... Conform

Code	Size	Packaging	Notes
524671	1 l	Plastic bottle	

Sodium hydroxide 1.2 mol/l (1.2N)

Sodio idrossido 1.2 mol/l (1.2N) • Sodium hydroxyde 1.2 mol/l (1.2N) • Sodio hidróxido 1.2 mol/l (1.2N)

Synonym: *Caustic soda*

NaOH
Molecular Weight: 40
CAS: 1310-73-2

Classification transport
ONU: 1824
Transport Hazard class: 8
Packing group II

Danger
H314-H318
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Sodium hydroxide 1.2 mol/l (1.2N) > RS - For analysis

RS

Assay (potentiometry) ..... 1.1976 - 1.2024 N

Code	Size	Packaging	Notes
PS0736/41	10 l	Plastic tank	
PS0736/42	20 l	Plastic tank	
PS0736/49	25 l	Plastic tank	

Sodium hydroxide 1 mol/l (1N)

Sodio idrossido 1 mol/l (1N) • Sodium hydroxyde 1 mol/l (1N) • Sodio hidróxido 1 mol/l (1N)

Synonym: *Caustic soda*

NaOH
Molecular Weight: 40.00
CAS: 1310-73-2

Classification transport
ONU: 1824
Transport Hazard class: 8
Packing group II

Danger
H314-H318
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Sodium hydroxide 1 mol/l (1N) > RS - For analysis according to Ph. Eur. Chap. 4.2.2

RS

Code	Size	Packaging	Notes
613006301	500 ml	Plastic bottle	Ref Ph.Eur 3006300
613006300	1 l	Plastic bottle	Ref Ph.Eur 3006300

Sodium hydroxide 1 mol/l (1N) > RS - For analysis according to USP

RS

Code	Size	Packaging	Notes
617000121	500 ml	Plastic bottle	

Sodium hydroxide 1 mol/l (1N) > RPE - For analysis

RPE

Description ..... Clear colourless liquid Identification ..... Positive Assay (potentiometry) .....0.999 - 1.001 N NIST 84 I

Code	Size	Packaging	Notes
480717000	1 l	Plastic bottle	
480711000	5 l	Kubidos	
480714000	5 l	Plastic tank	
480713000	10 l	Kubidos	

40 g de NaOH. Volumetric solution ready-to-use : 1N. Traceable to NIST

Sodium hydroxide 1 mol/l (1N) > RPE - NORMEX - For analysis

RPE

Description ..... Clear colourless liquid Identification ..... Positive Titration factor.....0.995 ÷ 1.005

Code	Size	Packaging	Notes
480741		Plastic ampoule	Volume : 165 ml

40 g NaOH.Volumetric concentrated solution to prepare 1 L of solution 1 N

Sodium hydroxide 1 mol/l (1N) > ERBApharm - Prepared from raw material according Ph.Eur

ERBApharm

Identification (Ph.Eur).....Conform Assay (Ph.Eur).....0.95 - 1.05 N Origine (BSE-TSE).....Conform Residual solvents (Current ICH).....Conform

Code	Size	Packaging	Notes
524621	1 l	Plastic bottle	

Content is guaranteed for standardized volumes at 20°C. Keep tightly closed

Sodium hydroxide 0.7 mol/l (N/1.4)

Sodio idrossido 0.7 mol/l (N/1.4) • Sodium hydroxyde 0.7 mol/l (N/1.4) • Sodio hidróxido 0.7 mol/l (N/1.4)

Synonym:
Caustic soda

NaOH
Molecular Weight: 40
CAS: 1310-73-2

Classification transport
ONU: 1824
Transport Hazard class: 8
Packing group II

Danger
H314-H318
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Sodium hydroxide 0.7 mol/l (N/1.4) > RS - For agroalimentary analysis

RS

Description ..... Clear colourless liquid Colour ..... ≤ 10 APHA Assay .....0.710 ÷ 0.718 N

Code	Size	Packaging	Notes
526511	10 l	Kubidos	

Sodium hydroxide 0.5 mol/l (N/2)

Sodio idrossido 0.5 mol/l (N/2) • Sodium hydroxyde 0.5 mol/l (N/2) • Sodio hidróxido 0.5 mol/l (N/2)

Synonym:
Caustic soda

NaOH
Molecular Weight: 40
CAS: 1310-73-2

Classification transport
ONU: 1824
Transport Hazard class: 8
Packing group II

Danger
H314-H318
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Sodium hydroxide 0.5 mol/l (N/2) > RPE - For analysis

RPE

Description ..... Clear colourless liquid Assay (potentiometry) .....0.4995 - 0.5005 N NIST 84 I

Code	Size	Packaging	Notes
480777000	1 l	Plastic bottle	
480771000	5 l	Kubidos	
480772000	10 l	Kubidos	
480773000	10 l	Plastic tank	

20 g of NaOH. Volumetric solution ready-to-use : 0.5N. Traceable to NIST

Sodium hydroxide 0.5 mol/l (N/2) > RPE - NORMEX - For analysis

RPE

Description ..... Clear colourless liquid Identification ..... Positive Titration factor.....0.995 ÷ 1.005

Code	Size	Packaging	Notes
480801		Plastic ampoule	Volume : 55 ml

20 g of NaOH. Volumetric concentrated solution to prepare 1 L of solution 0,5 N

Sodium hydroxide 0.5 mol/l (N/2) > ERBApharm - Prepared from raw material according Ph.Eur

ERBApharm

Identification (Ph.Eur).....Conform Assay (Ph.Eur).....0.475 - 0.525 N Origine (BSE-TSE).....Conform Residual solvents (Current ICH).....Conform

Code	Size	Packaging	Notes
524692	500 ml	Bottle	

Sodium hydroxide 0.357 mol/l (0.357N)

Sodio idrossido 0.357 mol/l (0.357N) • Sodium hydroxyde 0.357 mol/l (0.357N) • Sodio hidróxido 0.357 mol/l (0.357N)

Synonym: *Caustic soda*

NaOH
Molecular Weight: 40
CAS: 1310-73-2

Classification transport
ONU: 1824
Transport Hazard class: 8
Packing group III

Warning
H315-H319
P280-P264-P305+P351+P338-P332+P313-P337+P313-P302+P352

Sodium hydroxide 0.357 mol/l (0.357N) > RPE - For analysis

RPE

Description ..... Clear colourless liquid Assay (potentiometry) ..... 0.3566 - 0.3574 N NIST 84 I

Code	Size	Packaging	Notes
480837000	1 l	Plastic bottle	

14.28 g of NaOH. Volumetric solution ready-to-use : 1/2.82N. Traceable to NIST

Sodium hydroxide 0.25 mol/l (N/4)

Sodio idrossido 0.25 mol/l (N/4) • Sodium hydroxyde 0.25 mol/l (N/4) • Sodio hidróxido 0.25 mol/l (N/4)

Synonym: *Caustic soda*

NaOH
Molecular Weight: 40
CAS: 1310-73-2

Classification transport
ONU: 1824
Transport Hazard class: 8
Packing group III

Warning
H315-H319
P280-P264-P305+P351+P338-P332+P313-P337+P313-P302+P352

Sodium hydroxide 0.25 mol/l (N/4) > RPE - For analysis

RPE

Description ..... Clear colourless liquid Assay (potentiometry) ..... 0.2498 - 0.2503 N NIST 84 I

Code	Size	Packaging	Notes
480867000	1 l	Plastic bottle	
480861000	5 l	Kubidos	
480862000	10 l	Kubidos	
480863000	25 l	Plastic tank	

10 g of NaOH. Volumetric solution ready-to-use : 0.25N. Traceable to NIST

Sodium hydroxide 0.25 mol/l (N/4) > ERBApharm - Prepared from raw material according Ph.Eur

ERBApharm

Colour ..... ≤ 100 APHA Assay ..... 0.2495 ÷ 0.2505 N

Code	Size	Packaging	Notes
369812	5 l	Plastic tank	

Content is guaranteed for standardized volumes at 20 °C. Keep tightly

Sodium hydroxide 0.2 mol/l (N/5)

Sodio idrossido 0.2 mol/l (N/5) • Sodium hydroxyde 0.2 mol/l (N/5) • Sodio hidróxido 0.2 mol/l (N/5)

Synonym: *Caustic soda*

NaOH
Molecular Weight: 40
CAS: 1310-73-2

Classification transport
ONU: 1824
Transport Hazard class: 8
Packing group III

Warning
H315-H319
P280-P264-P305+P351+P338-P332+P313-P337+P313-P302+P352

Sodium hydroxide 0.2 mol/l (N/5) > RS - For agroalimentary analysis

RS

Description ..... Clear colourless liquid Colour ..... ≤ 10 APHA Assay ..... 0.19 ÷ 0.21 M

Code	Size	Packaging	Notes
502782	500 ml	Plastic bottle	
502781000	10 l	Plastic tank	

Sodium hydroxide 0.2 mol/l (N/5) > RPE - For analysis

RPE

Assay (potentiomety) ..... 0.1998 - 0.2002 N

Code	Size	Packaging	Notes
P3440015	1 l	Plastic bottle	

Sodium hydroxide 1/9 mol/l (N/9)

Sodio idrossido 1/9 mol/l (N/9) • Sodium hydroxyde 1/9 mol/l (N/9) • Sodio hidróxido 1/9 mol/l (N/9)

Synonym:
Caustic soda

NaOH
Molecular Weight: 40
CAS: 1310-73-2

Classification transport
ONU: 1824
Transport Hazard class: 8
Packing group III

Warning
H315-H319
P280-P264-P305+P351+P338-P332+P313-P337+P313-P302+P352

Sodium hydroxide 1/9 mol/l (N/9) > RPE - For analysis

RPE

Assay (potentiomety) ..... 0.1109 - 0.1113 N

Code	Size	Packaging	Notes
P4500022	5 l	Plastic tank	

Sodium hydroxide 0.1 mol/l (N/10)

Sodio idrossido 0.1 mol/l (N/10) • Sodium hydroxyde 0.1 mol/l (N/10) • Sodio hidróxido 0.1 mol/l (N/10)

Synonym:
Caustic soda

NaOH
Molecular Weight: 40
CAS: 1310-73-2

Sodium hydroxide 0.1 mol/l (N/10) > RS - For analysis according to Ph. Eur. Chap. 4.2.2

RS

Code	Size	Packaging	Notes
613006601	500 ml	Plastic bottle	Ref Ph.Eur 3006600
613006600	1 l	Plastic bottle	Ref Ph.Eur 3006600

Sodium hydroxide 0.1 mol/l (N/10) > RPE - For analysis

RPE

Description ..... Clear colourless liquid Assay (potentiometry) ..... 0.0999 - 0.1001 N NIST 84 I

Code	Size	Packaging	Notes
480897000	1 l	Plastic bottle	
480891000	5 l	Kubidos	
480892000	10 l	Kubidos	
480893000	10 l	Plastic tank	
480895000	50 l	Plastic drum	

4 g of NaOH. Volumetric solution ready-to-use : 0.1N. Traceable to NIST

Sodium hydroxide 0.1 mol/l (N/10) > RPE - NORMEX - For analysis

RPE

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
480921		Plastic ampoule	Volume : 55 ml

4 g of NaOH. Volumetric concentrated solution to prepare 1 L of solution 0,1 N

Sodium hydroxide 0.1 mol/l (N/10) > ERBApharm - Prepared from raw material according Ph.Eur

ERBApharm

Identification (Ph.Eur)..... Conform Assay (Ph.Eur)..... 0.095 - 0.105 N Origine (BSE-TSE)..... Conform Residual solvents (Current ICH)..... Conform

Code	Size	Packaging	Notes
524631	1 l	Plastic bottle	

Content is guaranteed for standardized volumes at 20°C. Keep tightly closed

Sodium hydroxide 0.1 mol/l (0.1N) in ethanol

Sodio idrossido 0.1 mol/l (N/10) in etanolo • Sodium hydroxyde 0.1 mol/l (0.1N) dans l'éthanol • Sodio hidróxido 0.1 mol/l (N/10) en etanol

Synonym: *Caustic soda*

NaOH
Molecular Weight: 40
CAS: 1310-73-2

Classification transport
ONU: 2733
Transport Hazard class: 3
Packing group II

Danger
H225-H319
P210-P241-P264-P303+P361+P353-P305+P351+P338-P403+P235

Sodium hydroxide 0.1 mol/l (0.1N) in ethanol > RS - For analysis according to Ph. Eur. Chap. 4.2.2 — RS

Code	Size	Packaging	Notes
613007001	100 ml	Glass bottle	Ref Ph.Eur 3007000
613007000	1 l	Glass bottle	Ref Ph.Eur 3007000

Sodium hydroxide 0.01 mol/l (N/100)

Sodio idrossido 0.01 mol/l (N/100) • Sodium hydroxyde 0.01 mol/l (N/100) • Sodio hidroxido 0.01 mol/l (N/100)

Synonym: *Caustic soda*

NaOH
Molecular Weight: 40
CAS: 1310-73-2

HEU210

Sodium hydroxide 0.01 mol/l (N/100) > RPE - For analysis — RPE

Assay (potentiomety) ..... 0.00998 - 0.01002 N

Code	Size	Packaging	Notes
PS0215/15	1 l	Bottle	

Sodium hydroxide 0.01 mol/l (N/100) > RPE - NORMEX - For analysis — RPE

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
481001		Plastic ampoule	Volume : 55 ml

0,4 g of NaOH. Volumetric concentrated solution to prepare 1 L of solution 0,01 N

Sodium hydroxide-d 1 30%

Sodio idrossido-d 30% • Sodium hydroxyde-d 30% • Sodio hidróxido-d 30%

Synonym: *Sodium deuteroxide solution*

NaOD
Molecular Weight: 41
CAS: 14014-06-3
EEC-N: 237-825-2

Classification transport
ONU: 1824
Transport Hazard class: 8
Packing group II

Danger
H300-H314
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Sodium hydroxide-d 1 30% > RS - For NMR - min 99.5% — RS

Code	Size	Packaging	Notes
P5675	25 ml	Glass bottle	

Sodium hydroxide-d 1 mol/l

Sodio idrossido-d 1 mol/l • Sodium hydroxyde-d 1N • Sodio hidróxido-d 1 mol/l

Synonym: *Sodium deuteroxide solution*

NaOD
Molecular Weight: 41
CAS: 14014-06-3

Classification transport
ONU: 1824
Transport Hazard class: 8
Packing group II

Sodium hydroxide-d 1 mol/l > RS - For NMR - min 99.8% — RS

Code	Size	Packaging	Notes
P5665	25 ml	Glass bottle	

Sodium hypochlorite solution in water

Sodio ipoclorito soluzione in acqua • Sodium hypochlorite solution aqueuse • Sodio hipoclorito solución en agua

NaClO
Molecular Weight: 74,44
CAS: 7681-52-9

Classification transport
ONU: 1791
Transport Hazard class: 8
Packing group III

Warning
H315-H319-HEU031-HEU206
P264-P280-P305+P351+P338-P332+P313-P337+P313-P302+P352a

Sodium hypochlorite solution in water > RS - For analysis according to Ph. Eur. Chap. 4.1.1 — RS

Code	Size	Packaging	Notes
611081609	250 ml	Glass bottle	Sodium hypochlorite solution, strong Ref Ph.Eur 1081600
611081600	1 l	Glass bottle	Sodium hypochlorite solution, strong Ref Ph.Eur 1081600

Sodium hypochlorite solution in water > RS - For analysis according to JP — RS

Code	Size	Packaging	Notes
616001008	100 ml	Glass bottle	Sodium hypochlorite TS

Sodium hypochlorite solution in water > RS - For analysis according to USP — RS

Code	Size	Packaging	Notes
617000181	1 l	Glass bottle	

Sodium hypochlorite solution in water > RPE - For analysis — RPE

Description ..... Yellow clear liquid
Density at 20°C ..... ~ 1.1
Alcalinity (NaOH)..... ≤1.8 % m/m
Cd.....≤10 ppm
Cr.....≤10 ppm
Cu.....≤10 ppm
Hg.....≤10 ppm
Mn.....≤10 ppm
Ni.....≤10 ppm
Zn.....≤10 ppm
Assay (iodometric)..... 5 ÷ 9 %(Cl)m/m

Code	Size	Packaging	Notes
481181	1 l	Plastic bottle	
481185	30 kg	Plastic drum	

Store at ambient temperature

Sodium hypochlorite solution in water > RE - Pure — RE

Description ..... Yellow clear liquid
Alcalinity (NaOH)..... ≤ 1.8 % m/m
Assay (iodometric)..... 5 - 9 % Cl
Density at 20°C ..... 1.1 - 1.2

Code	Size	Packaging	Notes
370321	1 l	Plastic bottle	
370323	5 l	Plastic bottle	
370322	30 kg	Plastic drum	

Store at ambient temperature

Sodium hypochlorite solution 12.5%

Sodio ipoclorito soluzione 12.5% • Sodium hypochlorite solution 12.5% • Sodio hipoclorito solución 12.5%

NaClO
Molecular Weight: 74,44
CAS: 7681-52-9

Classification transport
ONU: 1791
Transport Hazard class: 8
Packing group III

Danger
H290-H314-H335-H400-HEU031
P264-P273-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Sodium hypochlorite solution 12.5% > RPE - For analysis — RPE

Appearance ..... Slight yellow liquid
French chlorometric degree ..... ≥ 44 °
Active chlorine percentage..... ≥ 11.6 % (m/m)

Code	Size	Packaging	Notes
P9350015	1 l	Plastic bottle	
P9350046	1 l	Glass bottle PVC coated	
P9350049	25 l	Plastic tank	

Store at ambient temperature

Sodium hypophosphite
Sodio ipofosfito • Sodium hypophosphite • Sodio hipofosfito

$NaH_2PO_2.H_2O$
Molecular Weight: 106,06
CAS: 10039-56-2
EEC-N: 231-669-9

Sodium hypophosphite > RE - Pure
RE

Description .....Semitransparent crystals
Identification ..... Positive
Chloride.....≤100 ppm
Heavy metals (Pb).....≤10 ppm
Sulphate.....≤500 ppm
As.....≤2 ppm
Fe .....≤50 ppm
Assay (oxidimetric) .....≥101 % t.q.

Code	Size	Packaging	Notes
481201	1 kg	Plastic bottle	
481202	5 kg	Plastic jar	

Sodium iodide
Sodio ioduro • Sodium iodure • Sodio yoduro

NaI
Molecular Weight: 149,89
CAS: 7681-82-5
EEC-N: 231-679-3

Danger
H334-H335-H315-H319-H317
P285-P261-P280-P305+P351+P338-P405-P501a

Sodium iodide > RPE - For analysis
RPE

Description .....White crystals
Identification ..... Positive
Loss on drying ..... ≤ 2 %
Iodate.....≤ 4 ppm
Sulphate.....≤ 150 ppm
Fe .....≤ 20 ppm
Assay (oxidimetric) .....99 ÷ 101.5 %

Code	Size	Packaging	Notes
481163	50 g	Glass bottle	
481164	500 g	Plastic bottle	
481162	25 kg	Drum	

Sodium iodide > ERBApharm - According to pharmacopoeia : BP-FU-Ph.Eur.-Ph.Franc.
ERBApharm

Description ..... White crystalline powder
Identification ..... Positive
Alcalinity.....Conform Ph.Eur.
Appearance of solution .....Conform Ph.Eur.
Thiosulphate .....Conform Ph.Eur.
Iodate.....Conform Ph.Eur.
Loss on drying ..... ≤ 3.0 %
Heavy metals (Pb).....≤ 10 ppm
Sulphate.....≤ 150 ppm
Fe .....≤ 20 ppm
Assay (oxidimetric) .....99.0 ÷ 100.5 % s.s.

Code	Size	Packaging	Notes
370305	250 g	Plastic bottle	
370307	1 kg	Plastic bottle	
370309	5 kg	Plastic jar	

Sodium laurylsulfate
Sodio laurilsolfato • Sodium laurylsulfate • Sodio laurilsulfato

Synonym:
Sodium dodecyl sulfate
Dodecyl sodium sulfate

$CH_3(CH_2)_{11}OSO_3Na$
Molecular Weight: 288,38
EEC-N: 273-257-1

Danger
H315-H318-H335-H412
P264-P273-P271-P280-P304+P340-P305+P351+P338

Sodium laurylsulfate > RS - For surfactants detection
RS

Description .....White crystalline powder
Identification (I.R.)..... Positive
pH sol. 1% at 20°C ..... 8.5 ÷ 10.5
Free sulphate (Na2SO4).....≤ 2.5 %
Assay (acidimetric) .....≥ 92.0 %

Code	Size	Packaging	Notes
481231	250 g	Plastic bottle	
481233	10 kg	Plastic bucket	
481235	25 kg	Drum	

Sodium laurylsulfate > RPE - For analysis

RPE

Anionic surfactant ..... 93 - 98 %
Unsulphated matter ..... ≤ 1 %
Loss on drying ..... ≤ 1 %
Na2SO4 ..... ≤ 3 %
NaCl ..... ≤ 1.5 %
pH (1% solution) ..... 8.5 - 10.5

Code	Size	Packaging	Notes
P7600513	100 g	Plastic bottle	
P7600514	500 g	Plastic bottle	
P7600517	1 kg	Plastic jar	

Sodium metabisulfite

Sodio metabisolfito • Sodium métabisulfite • Sodio metabisulfito

Synonym:
Sodium bisulfite
Sodium hydrogensulfite

$Na_2O_5S_2$
Molecular Weight: 190,1
CAS: 7681-57-4
EEC-N: 231-673-0

Danger
H302-H318-HEU031
P264-P280i-P270-P305+P351+P338-P330-P301+P312a

Sodium metabisulfite > RPE - For analysis - ACS

RPE

Description ..... White crystalline powder
Identification ..... Positive
Chloride ..... ≤ 0.05 %
Water-insoluble matter ..... ≤ 50 ppm
Heavy metals (Pb) ..... ≤ 10 ppm
Thiosulphate ..... ≤ 0.05 %
Fe ..... ≤ 20 ppm
Assay (oxidimetric) ..... ≥ 97.0 %

Code	Size	Packaging	Notes
481286	100 g	Plastic bottle	
481287	1 kg	Plastic bottle	
481288	2.5 kg	Plastic bottle	
481283	25 kg	Plastic bucket	

Sodium metabisulfite > ERBApharm - According to pharmacopoeia : BP-NF-Ph.Eur.-FU

ERBApharm

Description ..... White crystalline powder
Identification ..... Positive
Appearance of solution ..... Conform Ph.Eur.
pH solution 5% ..... 3.5 ÷ 5.0
Chloride ..... ≤500 ppm
Thiosulphate ..... ≤500 ppm
Heavy metals (Pb) ..... ≤20 ppm
As ..... ≤5 ppm
Fe ..... ≤20 ppm
Assay (oxidimetric) ..... 95.0 ÷ 100.5 %
Assay (SO2) ..... 65.0 ÷ 67.4 %
Residual solvents (Current ICH) ..... Conform
Origin (BSE/TSE) ..... Synthesis

Code	Size	Packaging	Notes
370751	1 kg	Plastic bottle	
370752	2.5 kg	Plastic bottle	
370753	25 kg	Plastic bucket	

Sodium metaperiodate

Sodio (meta)-periodato • Sodium m-périodate • Sodio metaperyodato

Synonym:
Sodium (meta)periodate
Sodium periodate

$NaIO_4$
Molecular Weight: 213,89
CAS: 7790-28-5
EEC-N: 232-197-6

Classification transport
ONU: 1479
Transport Hazard class: 5.1
Packing group II

Danger
H272-H315-H319-H335
P221-P264-P210a-P271-P304+P340-P305+P351+P338

Sodium metaperiodate > RPE - For analysis - ACS

RPE

Description ..... White crystalline powder
Identification ..... Positive
Other halogens (Cl) ..... ≤ 0.02 %
Mn ..... ≤ 3 ppm
Assay (iodometric) ..... 99.8 ÷ 100.3 % (s.s.)

Code	Size	Packaging	Notes
482234	100 g	Glass bottle	
482236	1 kg	Glass bottle	

Sodium metaphosphate
Sodio metafosfato • Sodium métaphosphate • Sodio metafosfato

$NaPO_3$
Molecular Weight: 102,2
CAS: 10361-03-2
EEC-N: 233-782-9

Sodium metaphosphate > RE - Pure

RE

Description ..... White crystalline powder
Identification ..... Positive
Chloride ..... ≤500 ppm
Heavy metals (Pb) ..... ≤20 ppm
Sulphate ..... ≤0.1 %
Fe ..... ≤500 ppm
Assay ..... ≥68.0 % P205

Code	Size	Packaging	Notes
481557	1 kg	Plastic bottle	
481552	25 kg	Plastic bucket	

Sodium methoxide 0.1 mol/l
Sodio metossido 0.1 mol/l • Sodium méthanolate 0.1 mol/l • Sodio metóxido 0.1 mol/l

Synonym:
Sodium methylate

CH_3NaO
Molecular Weight: 54,02
CAS: 124-41-4

Classification transport
ONU: 1986
Transport Hazard class: 3
Packing group II

Danger
H225-H331-H370
P210-P241-P264-P303+P361+P353-P304+P340-P403+P235

Sodium methoxide 0.1 mol/l > RS - For analysis according to Ph. Eur. Chap. 4.2.2

RS

Code	Size	Packaging	Notes
613007101	100 ml	Glass bottle	Ref Ph.Eur 3007100
613007100	1 l	Glass bottle	Ref Ph.Eur 3007100

Sodium molybdate dihydrate
Sodio molibdato diidrato • Sodium molybdate dihydraté • Sodio molibdato dihidrato

Synonym:
Molybdic acid sodium salt dihydrate

$Na_2MoO_4.2H_2O$
Molecular Weight: 241,95
CAS: 10102-40-6
EEC-N: 231-551-7

Warning
H315-H319-H335
P264-P271-P280-P304+P340-P305+P351+P338-P312a

Sodium molybdate dihydrate > RPE - For analysis

RPE

Description ..... White crystalline powder
Identification ..... Positive
Assay (oxidimetric) ..... > 99.0 %

Code	Size	Packaging	Notes
481684	100 g	Glass bottle	
481685	250 g	Plastic bottle	
481687	1 kg	Plastic bottle	

Sodium nitrate
Sodio nitrato • Sodium nitrate • Sodio nitrato

$NaNO_3$
Molecular Weight: 84,99
CAS: 7631-99-4
EEC-N: 231-554-3

Classification transport
ONU: 1498
Transport Hazard class: 5.1
Packing group III

Danger
H272-H302
P221-P264-P210a-P280a-P220-P330

Sodium nitrate > RPE - For analysis - ISO - ACS - Reag.Ph.Eur. - Reag.USP
RPE

Description ..... White crystals
Identification ..... Positive
pH sol. 5% in H20 ..... 5.5 ÷ 8.3
Water-insoluble matter ..... ≤ 50 ppm
Chloride ..... ≤ 10 ppm
Phosphate ..... ≤ 5 ppm
Iodate ..... ≤ 5 ppm
Nitrite ..... ≤ 10 ppm
Sulphate ..... ≤ 30 ppm
Heavy metals (Pb) ..... ≤ 5 ppm
Fe ..... ≤ 3 ppm
Assay (acidimetric) ..... ≥ 99.0 %
Ca ..... ≤ 50 ppm
Mg ..... ≤ 20 ppm

Code	Size	Packaging	Notes
481755	100 g	Plastic bottle	
481756	500 g	Plastic bottle	
481757	1 kg	Plastic bottle	
481759	5 kg	Plastic jar	
481751	25 kg	Drum	

Sodium nitrate > RE - Pure
RE

Description ..... Yellowish crystals
Identification ..... Positive
Chloride ..... ≤0.5 %
Water-insoluble matter ..... ≤500 ppm
Heavy metals (Pb) ..... ≤50 ppm
Sulphate ..... ≤0.5 %
Fe ..... ≤50 ppm
Assay (non-aqueos medium) ..... ≥96 %

Code	Size	Packaging	Notes
371809	5 kg	Plastic jar	
371802	25 kg	Plastic bucket	
371804	50 kg	Fibre drum	

Sodium nitrite
Sodio nitrito • Sodium nitrite • Sodio nitrito

$NaNO_2$
Molecular Weight: 68,99
CAS: 7632-00-0
EEC-N: 231-555-9

Classification transport
ONU: 1500
Transport Hazard class: 5.1
Packing group III

Danger
H272-H301-H400
P221-P264-P273-P210a-P280a-P301+P310a

Sodium nitrite > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP
RPE

Description ..... Yellow crystals
Identification ..... Positive
Water-insoluble matter ..... ≤100 ppm
Chloride ..... ≤50 ppm
Sulphate ..... ≤100 ppm
Heavy metals (Pb) ..... ≤10 ppm
Ca ..... ≤100 ppm
Fe ..... ≤10 ppm
K ..... ≤50 ppm
Assay (oxidimetric) ..... ≥97.0 %

Code	Size	Packaging	Notes
481825	100 g	Plastic bottle	
481826	500 g	Plastic bottle	
481827	1 kg	Plastic bottle	
481829	5 kg	Plastic jar	

Sodium nitrite > ERBApharm - According to pharmacopoeia : USP-BP
ERBApharm

Description ..... Yellow crystals
Identification ..... Positive
Loss on drying ..... ≤0.25 %
Heavy metals (Pb) ..... ≤20 ppm
Assay (oxidimetric) ..... 97.0 ÷ 101.0 % s.s.

Code	Size	Packaging	Notes
371901	1 kg	Plastic bottle	
371902	5 kg	Plastic jar	
371903	25 kg	Plastic bucket	

Sodium nitrite > RE - Pure
RE

Description ..... Yellow crystals
Identification ..... Positive
Chloride ..... ≤0.1 %
Heavy metals (Pb) ..... ≤50 ppm
Sulphate ..... ≤0.1 %
Fe ..... ≤50 ppm
Assay (oxidimetric) ..... ≥95 %

Code	Size	Packaging	Notes
372109	5 kg	Plastic jar	

Sodium nitrite 0.1 mol/l (0.1N)

Sodio nitrito 0.1 mol/l (0.1N) • Sodium nitrite 0.1 mol/l (0.1N) • Sodio nitrito 0.1 mol/l (0.1N)

$NaNO_2$
Molecular Weight: 68,99
CAS: 7632-00-0

Sodium nitrite 0.1 mol/l (0.1N) > RS - For analysis according to Ph. Eur. Chap. 4.2.2 — RS

Code	Size	Packaging	Notes
613007200	1 l	Plastic bottle	Ref Ph.Eur 3007200

Sodium nitrite solution 500 g/l

Sodio nitrito 500 g/l soluzione • Sodium nitrite 500g/l • Sodio nitrito solución 500 g/L

$NaNO_2$
Molecular Weight: 68,99
CAS: 7632-00-0

Classification transport
ONU: 3219
Transport Hazard class: 5.1
Packing group III

Danger
H272-H301-H400
P210-P221-P264-P273-P280-P301+P310a

Sodium nitrite solution 500 g/l > RPE - For analysis — RPE

Assay .....490 - 510 g/L

Code	Size	Packaging	Notes
524725	2 l	Bottle	

Sodium nitroprusside dihydrate

Sodio nitroprussiato diidrato • Sodium nitroprussiate dihydraté • Sodio nitroprusiato dihidrato

$Na_2Fe(CN)_5NO.2H_2O$
Molecular Weight: 297,95
CAS: 13755-38-9
EEC-N: 238-373-9

Classification transport
ONU: 3288
Transport Hazard class: 6.1
Packing group III

Danger
H301-H331
P270-P301+P310a-P330-P403+P233-P405-P501a

Sodium nitroprusside dihydrate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP — RPE

Description .....Red brick crystals
Identification ..... Positive
Chloride.....≤ 200 ppm
Sulphate..... Conform
Not soluble matter.....≤ 0.01 %

Code	Size	Packaging	Notes
481932	50 g	Glass bottle	
481934	100 g	Glass bottle	

Sodium 1-octanesulfonate monohydrate ▶ 1-Octanesulfonic acid sodium salt monohydrate

Sodium oxalate

Sodio ossalato • Sodium oxalate • Sodio oxalato

Synonym:
Ethandioic acid sodium salt
Oxalic acid disodium salt

$(COONa)_2$
Molecular Weight: 134
CAS: 62-76-0
EEC-N: 200-550-3

Warning
H302-H312
P264-P280h-P270-P330-P301+P312a-P302+P352a

Sodium oxalate > RS - Standard for volumetry — RS

Description .....White crystalline powder
Identification ..... Positive
Assay .....≥99.8 %

Code	Size	Packaging	Notes
482101	50 g	Glass bottle	

Sodium oxalate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description ..... White crystalline powder
Identification ..... Positive
Neutrality ..... Conform
Ready carbonizable substances..... Conform
Loss on drying ..... ≤100 ppm
Water-insoluble matter ..... ≤50 ppm
Ammonium ..... ≤20 ppm
Chloride ..... ≤20 ppm
Sulphate ..... ≤20 ppm
Heavy metals (Pb) ..... ≤20 ppm
Fe ..... ≤10 ppm
K ..... ≤50 ppm
Assay (oxidimetric) ..... ≥99.5 %

Code	Size	Packaging	Notes
482064	100 g	Plastic bottle	
482065	250 g	Plastic bottle	
482067	1 kg	Plastic bottle	

Sodium oxalate > RE - Pure

RE

Description ..... White crystalline powder
Identification ..... Positive
Chloride ..... ≤ 300 ppm
Sulphate ..... ≤ 100 ppm
Fe ..... ≤ 100 ppm
Assay (oxidimetric) ..... 94 ÷ 96 %

Code	Size	Packaging	Notes
372201	1 kg	Plastic bottle	
372203	5 kg	Plastic jar	

Sodium 1-pentanesulfonate ▶ 1-Pentanesulphonic acid sodium salt

Sodium 1-pentanesulfonate monohydrate ▶ 1-Pentanesulphonic acid sodium salt monohydrate

Sodium perborate tetrahydrate

Sodio perborato tetraidrato • Sodium perborate tétrahydraté • Sodio perborato tetrahidratado

$NaBO_3.4H_2O$
Molecular Weight: 153,88
CAS: 10486-00-7
EEC-N: 231-556-4

Danger
H318-H360Df-H335-HA26
P271-P261-P304+P340-P305+P351+P338-P308+P313-P403+P233

Sodium perborate tetrahydrate > RE - Pure

RE

Description ..... White crystalline powder
Identification ..... Positive
Chloride ..... ≤500 ppm
Heavy metals (Pb) ..... ≤100 ppm
Sulphate ..... ≤0.1 %
As ..... ≤20 ppm
Fe ..... ≤500 ppm
Assay (oxidimetric) ..... ≥96 %

Code	Size	Packaging	Notes
482183	1 kg	Plastic bottle	
482185	5 kg	Plastic jar	
482187	25 kg	Plastic bucket	

Sodium perchlorate monohydrate

Sodio perclorato monoidrato • Sodium perchlorate monohydraté • Sodio perclorato

Synonym:
Hyperchloric acid sodium salt

$NaClO_4.H_2O$
Molecular Weight: 140.46
CAS: 7791-07-3
EEC-N: 231-511-9

Classification transport
ONU: 1502
Transport Hazard class: 5.1
Packing group II

Danger
H272-H302
P221-P264-P210a-P280a-P220-P330

Sodium perchlorate monohydrate > RPE - For analysis

RPE

Description ..... White crystal
Identification (I.R.) ..... Positive
Chloride ..... ≤ 50 ppm
Chlorates ..... ≤ 0.10 %
Heavy metals (Pb) ..... ≤ 10 ppm
Sulfate ..... ≤ 50 ppm
Fe ..... ≤ 50 ppm
Assay ..... ≥ 99.0 %

Code	Size	Packaging	Notes
482204	250 g	Glass bottle	

Sodium peroxide

Sodio perossido • Sodium péroxyde • Sodio peróxido

Synonym:
Sodium superoxide

Na_2O_2
Molecular Weight: 77,98
CAS: 1313-60-6
EEC-N: 215-209-4

Classification transport
ONU: 1504
Transport Hazard class: 5.1
Packing group I

Danger
H271-H314
P280-P301+P330+P331-P304+P340-P305+P351+P338-P371+P380+P375-P302+P352b

Sodium peroxide > RPE - For analysis

RPE

Description ..... Pale yellow powder
Identification ..... Positive
Total nitrogen ..... ≤20 ppm
Chloride ..... ≤40 ppm
Phosphate ..... ≤20 ppm
Total sulphur ..... ≤200 ppm
Ca ..... ≤500 ppm
Fe ..... ≤20 ppm
K ..... ≤200 ppm
Pb ..... ≤20 ppm
Assay (oxidimetric) ..... ≥97 %

Code	Size	Packaging	Notes
482252	1 kg	Metallic can	

Sodium persulfate

Sodio persolfato • Sodium persulfate • Sodio persulfato

$Na_2S_2O_8$
Molecular Weight: 238.10
CAS: 7775-27-1
EEC-N: 231-892-1

Classification transport
ONU: 1505
Transport Hazard class: 5.1
Packing group III

Danger
H272-H302-H315-H319-H334-H317-H335
P221-P264-P210a-P304+P340-P305+P351+P338-P342+P311a

Sodium persulfate > RE - Pure

RE

Description ..... White crystalline powder
Identification ..... Positive
Ammonium ..... ≤0.1 %
Chloride ..... ≤50 ppm
Heavy metals (Pb) ..... ≤20 ppm
Fe ..... ≤10 ppm
Assay (oxidimetric) ..... ≥97 %

Code	Size	Packaging	Notes
482365	250 g	Plastic bottle	
482367	2.5 kg	Plastic bottle	
482363	25 kg	Plastic bucket	

Sodium persulfate 1 mol/l

Sodio persolfato 1 mol/l • Sodium persulfate 1 mol/l • Sodio persulfato 1 mol/l

$Na_2S_2O_8$
Molecular Weight: 238.10
CAS: 7775-27-1

Classification transport
ONU: 3216
Transport Hazard class: 5.1
Packing group III

Danger
H272-H315-H319-H334-H317
P210-P221-P264-P304+P340-P305+P351+P338-P342+P311a

Sodium persulfate 1 mol/l > RPE - For analysis

RPE

Refractive index at 20°C ..... 1.35 - 1.354

Code	Size	Packaging	Notes
PS0083/41	10 l	Plastic tank	
PS0083/42	20 l	Plastic tank	

Sodium phosphate dibasic anhydrous

Sodio fosfato bibasico anidro • Sodium phosphate dibasique anhydre • Sodio fosfato dibásico anhidro

Synonym:
Disodium hydrogen phosphate

Na_2HPO_4
Molecular Weight: 141,96
CAS: 7558-79-4
EEC-N: 231-448-7

Sodium phosphate dibasic anhydrous > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description ..... White powder	Loss on drying ..... ≤ 0.2 %	Heavy metals (Pb)..... ≤ 10 ppm	Assay (alkalimetric)..... ≥ 99.0 %
Identification ..... Positive	Chloride..... ≤ 20 ppm	Sulphate..... ≤ 50 ppm	
pH sol. 5% at 25° C ..... 8.7 ÷ 9.3	Water-insoluble matter ..... ≤ 100 ppm	Fe ..... ≤ 20 ppm	

Code	Size	Packaging	Notes
480143	100 g	Plastic bottle	
480144	500 g	Plastic bottle	
480141	1 kg	Plastic bottle	
480142	5 kg	Plastic jar	

Sodium phosphate dibasic anhydrous > ERBApharm - According to pharmacopoeia : Ph.Eur.-USP

ERBApharm

Description ..... White powder	Fosfato monobasico ..... Conform Ph.Eur.	Chloride..... ≤ 200 ppm	Heavy metals (Pb)..... ≤ 10 ppm
Identification ..... Positive	Origin (BSE/TSE)..... Synthesis	Sulphate..... ≤ 500 ppm	Loss on drying at 105°C..... ≤ 1.0 %
Appearance of solution ..... Conform Ph.Eur.	Residual solvents (Current ICH)..... Conform	As ..... ≤ 2 ppm	Assay (potentiometric) 98.0 ÷ 100.5 % s.s.
Reducing substances ..... Conform Ph.Eur.	Not soluble matter..... ≤ 0.4 %	Fe ..... ≤ 20 ppm	Loss on drying at 130°C..... ≤ 5.0 %

Code	Size	Packaging	Notes
369212	1 kg	Plastic bottle	
369213	5 kg	Plastic bucket	
369211	25 kg	Plastic bucket	

Sodium phosphate dibasic dihydrate

Sodio fosfato bibasico biidrato • Sodium phosphate dibasique dihydraté • Sodio fosfato dibásico dihidrato

Synonym:
Disodium hydrogen phosphate dihydrate

$Na_2HPO_4.2H_2O$
Molecular Weight: 177,99
CAS: 10028-24-7
EEC-N: 231-448-7

Sodium phosphate dibasic dihydrate > RPE - For analysis

RPE

Description ..... White crystalline powder	Water-insoluble matter ..... ≤ 50 ppm	Pb ..... ≤ 1 ppm	Ammonium ..... ≤ 10 ppm
Identification ..... Positive	Heavy metals (Pb)..... ≤ 10 ppm	Assay (potetiometric) ..... 98.0 ÷ 100.5 %	Reducing substances ..... Conform
Loss on drying ..... 18.5 ÷ 21.5 %	Sulphate..... ≤ 50 ppm	Loss on ignition..... 25.1 ÷ 25.5 %	Sodium dihydrogen phosphate ..... ≤ 2.5 %
Chloride..... ≤ 10 ppm	As ..... ≤ 1 ppm	pH solution 1% ..... 9.0 ÷ 9.3	
Fluoride ..... ≤ 3 ppm	Fe ..... ≤ 5 ppm	Hg..... ≤ 1 ppm	

Code	Size	Packaging	Notes
480225	100 g	Plastic bottle	
480226	500 g	Plastic bottle	
480227	1 kg	Plastic bottle	
480222	5 kg	Plastic jar	

Sodium phosphate dibasic dihydrate > ERBApharm - According to pharmacopoeia : Ph.Eur.-USP

ERBApharm

Description ..... White crystalline powder	Fosfato monosodico ..... ≤ 2.5 %	Heavy metals (Pb)..... ≤ 20 ppm	Titolo (alcalimetrico)..98.0 ÷ 100.5 % s.s.
Identification ..... Positive	Water not sol. matter..... ≤ 0.4 %	As ..... ≤ 4 ppm	
Appearance of solution ..... Conform Ph.Eur.	Chloride..... ≤ 400 ppm	Fe ..... ≤ 40 ppm	
Reducing substances ..... Conform Ph.Eur.	Sulphate..... ≤ 0.1 %	Loss on drying 130° C..... 19.5 ÷ 21.0 %	

Code	Size	Packaging	Notes
369185	5 kg	Plastic jar	

Sodium phosphate dibasic dodecahydrate

Sodio fosfato bibasico dodecaidrato • Sodium phosphate dibasique dodécahydraté • Sodio fosfato dibasico dodecahidrato

Synonym:
Disodium hydrogen phosphate dodecahydrate

$Na_2HPO_4.12H_2O$
Molecular Weight: 358,14
CAS: 10039-32-4
EEC-N: 231-448-7

Sodium phosphate dibasic dodecahydrate > RPE - For analysis

RPE

Description ..White or gray crystalline mass
Identification ..... Positive
pH sol. 5% at 25° C .....9.0 ÷ 9.4
Total nitrogen.....≤ 10 ppm
Chloride.....≤ 5 ppm
Water-insoluble matter .....≤ 50 ppm
Heavy metals (Pb).....≤ 5 ppm
Sulphate.....≤ 50 ppm
As .....≤ 0.5 ppm
Ca.....≤ 10 ppm
Cd.....≤ 5 ppm
Cu.....≤ 5 ppm
Fe .....≤ 5 ppm
K.....≤ 100 ppm
Mg .....≤ 10 ppm
Ni.....≤ 5 ppm
Pb .....≤ 5 ppm
Zn .....≤ 5 ppm
Assay (potetiometric) .....98 ÷ 102 %
Mono or Tribasic salt .....Conform
Co.....≤ 5 ppm
Cr.....≤ 5 ppm
Mn .....≤ 5 ppm

Code	Size	Packaging	Notes
480133	100 g	Plastic bottle	
480136	500 g	Plastic bottle	
480137	1 kg	Plastic bottle	
480131	5 kg	Plastic jar	
480132	10 kg	Plastic bucket	
480135	25 kg	Plastic bucket	
480134	50 kg	Fibre drum	

Sodium phosphate dibasic dodecahydrate > ERBApharm - According to pharmacopoeia : BP-DAB-FU-Ph. Eur.-Ph.Franc.-USP

ERBApharm

Description .....White crystals
Identification ..... Positive
Appearance of solution .....Conform Ph.Eur.
Reducing substances .....Conform Ph.Eur.
Monobasic phosphate.....Conform Ph.Eur.
Water (K.F.) .....57.0 ÷ 61.0 %
Chloride.....≤200 ppm
Heavy metals (Pb).....≤10 ppm
Sulphate .....≤500 ppm
As .....≤2 ppm
Fe .....≤20 ppm
Assay (alkalimetric).....98.5 ÷ 100.5 % s.s.
Not soluble matter..... ≤ 0.4 %
Loss on drying 130° C.....55.0 ÷ 64.0 %

Code	Size	Packaging	Notes
369158	1 kg	Plastic bottle	
369159	5 kg	Plastic jar	
369152	25 kg	Plastic bucket	
369154	50 Kg	Fibre drum	

Sodium phosphate dibasic

Sodio fosfato bibasico • Sodium phosphate dibasique • Sodio fosfato dibásico

Synonym:
Disodium hydrogen phosphate

Na_2HPO_4
Molecular Weight: 141,96
CAS: 7558-79-4
EEC-N: 231-448-7

Sodium phosphate dibasic > RE - Pure

RE

Description ..... White powder
Identification ..... Positive
Loss on drying .....≤8 %
Chloride.....≤500 ppm
Heavy metals (Pb).....≤50 ppm
Sulphate.....≤0.5 %
As .....≤10 ppm
Fe .....≤200 ppm
Assay (acidimetric) .....≥92.0 %

Code	Size	Packaging	Notes
369257	1 kg	Plastic bottle	
369258	5 kg	Plastic jar	
369252	25 kg	Plastic bucket	

Sodium phosphate monobasic dihydrate

Sodio fosfato monobasico biidrato • Sodium phosphate monobasique dihydraté • Sodio fosfato monobásico dihidrato

Synonym:
Sodium dihydrogen phosphate dihydrate

$NaH_2PO_4.2H_2O$
Molecular Weight: 156,01
CAS: 13472-35-0
EEC-N: 231-449-1

Sodium phosphate monobasic dihydrate > ERBApharm - According to pharmacopoeia : Ph.Eur.-USP

ERBApharm

Description ..... White crystalline powder	Al,Ca and related sub. ..... Conform USP-NF	Chloride.....≤140 ppm	As .....≤2 ppm
Identification ..... Positive	pH solution 5% .....4.2 ÷ 4.5	Heavy metals (Pb).....≤10 ppm	Fe .....≤10 ppm
Appearance of solution .....Conform Ph.Eur.	Water (K.F.) .....18.0 ÷ 26.5 %	Sulphate .....≤300 ppm	Assay (alkalimetric).....98.0 ÷ 100.5 % s.s.
Reducing substances .....Conform Ph.Eur.	Loss on drying 130° C.....21.5 ÷ 24.0 %	Not soluble matter ..... ≤0.2 %	

Code	Size	Packaging	Notes
369138	1 kg	Plastic bottle	
369139	5 kg	Plastic jar	
369132	25 kg	Plastic bucket	

Sodium phosphate monobasic monohydrate

Sodio fosfato monobasico monoidrato • Sodium phosphate monobasique monohydraté • Sodio fosfato monobásico monohidrato

Synonym:
Monosodium phosphate
Sodium dihydrogen phosphate monohydrate

$NaH_2PO_4.H_2O$
Molecular Weight: 137,99
CAS: 10049-21-5
EEC-N: 231-449-2

Sodium phosphate monobasic monohydrate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description ..... White crystalline powder	Water-insoluble matter .....≤ 100 ppm	Sulphate .....≤ 30 ppm	K.....≤ 100 ppm
Identification ..... Positive	Chloride.....≤ 5 ppm	Ca .....≤ 50 ppm	Assay .....98.0 ÷ 102.0 %
pH sol. 5% in H2O.....4.1 ÷ 4.5	Heavy metals (Pb).....≤ 10 ppm	Fe .....≤ 10 ppm	

Code	Size	Packaging	Notes
480085	100 g	Plastic bottle	
480086	500 g	Plastic bottle	
480087	1 kg	Plastic bottle	
480082	5 kg	Plastic jar	
480081	25 kg	Plastic bucket	

Sodium phosphate monobasic monohydrate > ERBApharm - According to pharmacopoeia : USP

ERBApharm

Description ..... White crystalline powder	Water (K.F.) .....10.0 ÷ 15.0 %	As .....≤8 ppm	Conform
Identification ..... Positive	Chloride.....≤140 ppm	Assay (alkalimetric).....98.0 ÷ 103.0 % s.s.	Heavy metals (Pb).....≤ 20 ppm
Al,Ca and related sub. ..... Conform USP-NF	Sulphate ..... ≤0.15 %	Origin (BSE/TSE)..... Synthesis	
pH (1:20) .....4.1 ÷ 4.5	Not soluble matter ..... ≤0.2 %	Residual solvents (CPMP/ICH/283/95)	

Code	Size	Packaging	Notes
369143	1 kg	Plastic bottle	
369141	5 kg	Plastic jar	
369142	25 kg	Sack	

Sodium phosphate tribasic dodecahydrate

Sodio fosfato tribasico dodecaidrato • Sodium phosphate tribasique dodécahydraté • Sodio fosfato tribásico dodecahidratado

Synonym:
Trisodium phosphate dodecahydrate
TSP

$Na_3PO_4.12H_2O$
Molecular Weight: 380,12
CAS: 10101-89-0
EEC-N: 231-509-8

Warning
H315-H319-H335
P264-P271-P280-P304+P340-P305+P351+P338-P312a

Sodium phosphate tribasic dodecahydrate > RS - Nuclear

RS

Identification ..... Positive
Assay ..... ≥ 98 %
Chloride ..... ≤ 20 ppm
Fluoride ..... ≤ 20 ppm
Heavy metals ..... ≤ 10 ppm
Sulphate ..... ≤ 50 ppm
Insoluble matter ..... ≤ 50 ppm

Code	Size	Packaging	Notes
526001	25 kg	Drum	

Sodium phosphate tribasic dodecahydrate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description ..... White crystals
Identification ..... Positive
Free alkalies (NaOH) ..... ≤ 2.5 %
Water-insoluble matter ..... ≤ 100 ppm
Chloride ..... ≤ 10 ppm
Sulphate ..... ≤ 100 ppm
Heavy metals (Pb) ..... ≤ 10 ppm
Fe ..... ≤ 10 ppm
Assay (alkalimetric) ..... 98.0 ÷ 102.0 %

Code	Size	Packaging	Notes
480275	100 g	Plastic bottle	
480276	500 g	Plastic bottle	
480277	1 kg	Plastic bottle	
480272	5 kg	Plastic jar	
480271	25 kg	Fibre drum	

Sodium phosphate tribasic dodecahydrate > RE - Pure

RE

Description ..... White powder
Identification ..... Positive
pH sol. 1% ..... 11.8 ÷ 12.5
Water-insoluble matter ..... ≤ 0.2 %
Assay (alkalimetric) ..... ≥ 95.0 %

Code	Size	Packaging	Notes
369309	5 kg	Plastic jar	
369301	25 kg	Plastic bucket	

Sodium o-Phosphite pentahydrate

Sodio o-fosfito pentaidrato • Sodium o-Phosphite pentahydraté • Sodio o-Fosfito pentahidrato

Synonym:
Sodium phosphite dibasic pentahydrate
di-Sodium hydrogen phosphite

$Na_2HPO_3.5H_2O$
Molecular Weight: 216.04
CAS: 13517-23-2

Sodium o-Phosphite pentahydrate > RPE - For analysis

RPE

Description ..... White crystalline powder
Identification ..... Positive
Water solution 20% ..... Complete
pH 10% at 25° C ..... 8.5 ÷ 9.5
Water ..... 38.0 ÷ 45.0 %
Heavy metals (Pb) ..... ≤25 ppm
Assay (oxidimetric) ..... 97.0 ÷ 102.0 %

Code	Size	Packaging	Notes
482042	25 kg	Plastic bucket	
482041	50 kg	Fibre drum	

Sodium pyrophosphate decahydrate

Sodio pirofosfato decaidrato • Sodium pyrophosphate décahydraté • Sodio pirofosfato decahidrato

Synonym:
Sodium pyrophosphate tetrabasic decahydrate

$Na_4P_2O_7.10H_2O$
Molecular Weight: 446,06
CAS: 13472-36-1
EEC-N: 231-767-1

Warning
H315-H319-H335
P264-P271-P304+P340-P305+P351+P338-P312a-P332+P313

Sodium pyrophosphate decahydrate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description .....White crystals
Identification ..... Positive
pH sol. 5% at 25° C .....9.5 ÷ 10.5
Total nitrogen .....≤10 ppm
Chloride.....≤20 ppm
Water-insoluble matter .....≤100 ppm
Heavy metals (Pb).....≤10 ppm
Sulphate .....≤50 ppm
Fe .....≤10 ppm
Assay (acidimetric) .....99.0 ÷ 103.0 %

Code	Size	Packaging	Notes
482426	100 g	Plastic bottle	
482427	1 kg	Plastic bottle	
482422	10 kg	Carton box	
482421	25 kg	Drum	

Sodium salicylate

Sodio salicilato • Sodium salicylate • Sodio salicilato

Synonym:
Salicylic acid sodium salt
Sodium-2-hydroxybenzoate

HOC_6H_4COONa
Molecular Weight: 160,11
CAS: 54-21-7
EEC-N: 200-198-0

Warning
H302
P264-P270-P330-P301+P312a-P501a

Sodium salicylate > ERBApharm - According to pharmacopoeia : Ph.Eur.-USP-FU-Ph.Franc.-BP-DAB

ERBApharm

Description ..... White crystalline powder
Identification .....Positive
Appearance of solution .....Conform Ph.Eur.
Acidity .....Conform Ph.Eur.
Sulphite+thiosul. (SO2).... Conform USP-NF
Organic volatile impurities Conform USP-NF
Loss on drying ..... ≤ 0.5 %
Chloride..... ≤ 0.02 %
Heavy metals (Pb).....≤ 20 ppm
Sulphate ..... ≤ 0.06 %
Assay (non-aqueos medium) .99.0 ÷ 100.5 % s.s.
Water (K.F.) ..... ≤ 0.5 %

Code	Size	Packaging	Notes
373607	1 kg	Plastic bottle	
373608	5 kg	Plastic jar	
373603	25 kg	Plastic bucket	

Sodium silicate

Sodio silicato • Sodium silicate • Sodio silicato

Synonym:
Water glass

$Na_2O.xSiO_2$
Molecular Weight: 182,13 (an,)
CAS: 1344-09-8
EEC-N: 215-687-4

Danger
H302-H315-H318-H335
P264-P271-P280-P304+P340-P305+P351+P338-P330

Sodium silicate > RE - Pure

RE

Description ..... White powder
Identification ..... Positive
Loss on ignition..... ≤21 %
Assay(Na2O 2SiO2 anydr)..... ≥72 %

Code	Size	Packaging	Notes
373908	2.5 kg	Plastic bucket	
373909	5 kg	Plastic jar	
373902	25 kg	Fibre drum	

Sodium succinate hexahydrate

Sodio succinato esaidrato • Sodium succinate hexahydraté • Sodio succinato hexahidratado

Synonym:
Butanedioic acid disodium salt
Succinic acid disodium salt

$(CH_2COONa)_2.6H_2O$
Molecular Weight: 270,15
CAS: 6106-21-4
EEC-N: 205-778-7

Sodium succinate hexahydrate > RPE - For analysis

RPE

Description ..... White crystalline powder
Identification ..... Positive
pH sol. 5% at 25° C ..... 8.4 ÷ 9.2
Ammonium ..... ≤10 ppm
Chloride ..... ≤10 ppm
Phosphate ..... ≤20 ppm
Water-insoluble matter ..... ≤50 ppm
Heavy metals (Pb) ..... ≤5 ppm
Sulphate ..... ≤50 ppm
As ..... ≤1 ppm
Ca ..... ≤50 ppm
Cu ..... ≤2 ppm
Fe ..... ≤5 ppm
K ..... ≤50 ppm
Ni ..... ≤2 ppm
Pb ..... ≤2 ppm
Zn ..... ≤2 ppm
Assay (non-aqueos medium) ..... ≥99 %

Code	Size	Packaging	Notes
483554	100 g	Plastic bottle	
483555	250 g	Plastic bottle	
483557	2.5 kg	Plastic jar	
483551	25 kg	Fibre drum	

Sodium sulfate anhydrous

Sodio solfato anidro • Sodium sulfate anhydre • Sodio sulfato anhidro

Na_2SO_4
Molecular Weight: 142,04
CAS: 7757-82-6
EEC-N: 231-820-9

Sodium sulfate anhydrous > RS - For anhydrification

RS

Description ..... White crystalline powder
Identification ..... Positive
Loss on drying 130°C ..... ≤ 1 %
pH (10% solution) ..... 6 - 10
NaCl ..... ≤ 0.25 %
Fe ..... ≤ 5 ppm
Assay (acidimetric) ..... ≥ 99 %

Code	Size	Packaging	Notes
P1320017	1 kg	Plastic bottle	
P1320027	5 kg	Plastic jar	
P1320044	25 kg	Plastic bucket	

Sodium sulfate anhydrous > RS - For residual pesticides analysis

RS

Description ..... White crystalline powder
Identification ..... Positive
pH sol. 5% in H2O ..... 5.2 ÷ 9.2
Loss on ignition ..... ≤0.5 %
Total nitrogen ..... ≤5 ppm
Calcium + Magnesium ..... ≤ 150 ppm
Chloride ..... ≤10 ppm
Water-insoluble matter ..... ≤50 ppm
Heavy metals (Pb) ..... ≤5 ppm
As ..... ≤1 ppm
Fe ..... ≤10 ppm
Assay (acidimetric) ..... ≥99.0 %

Code	Size	Packaging	Notes
483025	500 g	Glass bottle	

Sodium sulfate anhydrous > RPE - Powder - For analysis - ACS - ISO

RPE

Description ..... White crystalline powder
Identification ..... Positive
pH sol. 5% in H2O ..... 5.2 ÷ 9.2
Loss on ignition ..... ≤0.5 %
Water-insoluble matter ..... ≤100 ppm
Total nitrogen ..... ≤5 ppm
Chloride ..... ≤10 ppm
Phosphate ..... ≤10 ppm
Heavy metals (Pb) ..... ≤5 ppm
Ca ..... ≤100 ppm
Fe ..... ≤10 ppm
K ..... ≤100 ppm
Mg ..... ≤50 ppm
Assay (acidimetric) ..... ≥99.0 %

Code	Size	Packaging	Notes
483006	100 g	Plastic bottle	
483005	500 g	Plastic bottle	
483007	1 kg	Plastic bottle	
483009	5 kg	Plastic jar	
483001	25 kg	Plastic bucket	

Sodium sulfate anhydrous > RPE - Crystals - For analysis - ACS - ISO

RPE

Description ..... White crystals
Identification ..... Positive
pH sol. 5% in H2O ..... 5.2 ÷ 9.2
Loss on ignition ..... ≤ 0.5 %
Total nitrogen ..... ≤ 5 ppm
Phosphate ..... ≤ 10 ppm
Chloride ..... ≤ 10 ppm
Water-insoluble matter ..... ≤ 100 ppm
Heavy metals (Pb) ..... ≤ 5 ppm
Ca ..... ≤ 100 ppm
Fe ..... ≤ 10 ppm
K ..... ≤ 100 ppm
Mg ..... ≤ 50 ppm
Assay (acidimetric) ..... ≥ 99.0 %

Code	Size	Packaging	Notes
483017	1 kg	Plastic bottle	
483019	5 kg	Plastic jar	
483011	25 kg	Fibre drum	

Sodium sulfate anhydrous > ERBApharm - According to pharmacopoeia : Ph.Eur.

ERBApharm

Description ..... White powder
Identification ..... Positive
Appearance of solution ..... Conform Ph. Eur.
Acidity or alcalinity ..... Conform Ph.Eur.
Chloride ..... ≤ 0.045 %
Heavy metals (Pb) ..... ≤ 45 ppm
Ca ..... ≤ 0.045 %
Fe ..... ≤ 90 ppm
Mg ..... ≤ 0.02 %
Loss on drying 130°C ..... ≤ 0.5 %
Assay ..... 98.5 ÷ 101.0 %
Origin (BSE/TSE) ..... Synthesis
Residual solvents (Current ICH) ..... Conform

Code	Size	Packaging	Notes
375713	1 kg	Plastic bottle	
375716	25 kg	Fibre drum	

Sodium sulfate decahydrate

Sodio solfato decaidrato • Sodium sulfate décahydraté • Sodio sulfato decahidrato

Synonym:
Glauber's salt

$Na_2SO_4.10H_2O$
Molecular Weight: 322,19
CAS: 7727-73-3
EEC-N: 231-820-9

Sodium sulfate decahydrate > RPE - For analysis - ACS

RPE

Description ..... White crystals
Identification ..... Positive
pH solution 5% ..... 5.2 ÷ 9.2
Total nitrogen ..... ≤3 ppm
Chloride ..... ≤5 ppm
Phosphate ..... ≤5 ppm
Water-insoluble matter ..... ≤100 ppm
Heavy metals (Pb) ..... ≤3 ppm
Ca ..... ≤50 ppm
Fe ..... ≤5 ppm
K ..... ≤50 ppm
Mg ..... ≤30 ppm
Assay (acidimetric) ..... ≥99 %

Code	Size	Packaging	Notes
482957	1 kg	Plastic bottle	
482959	5 kg	Plastic jar	

Sodium sulfide nonahydrate

Sodio solfuro nonaidrato • Sodium sulfure nonahydraté • Sodio sulfuro nonahidrato

$Na_2S.9H_2O$
Molecular Weight: 240,18
CAS: 1313-84-4
EEC-N: 215-211-5

Classification transport
ONU: 1849
Transport Hazard class: 8
Packing group II

Danger
H302-H311-H314-H400-HEU031
P264-P273-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Sodium sulfide nonahydrate > RPE - For analysis - ACS

RPE

Description ..... Crystals or Chunks
Identification ..... Positive
Ammonium ..... ≤ 50 ppm
Fe ..... Conform
Sulphite and thiosulphate (SO4) ..... ≤ 0.1 %
Assay (oxidimetric) ..... ≥ 98.0 %

Code	Size	Packaging	Notes
483484	100 g	Plastic bottle	
483485	250 g	Plastic bottle	
483487	1 kg	Plastic bottle	
483489	5 kg	Plastic jar	

Sodium sulfite anhydrous
Sodio solfito anidro • Sodium sulfite anhydre • Sodio sulfito anhidro

Na_2SO_3 HEU031
Molecular Weight: 126,04
CAS: 7757-83-7
EEC-N: 231-821-4

Sodium sulfite anhydrous > RPE - For analysis - ACS
RPE

Description ..... White powder
Identification ..... Positive
Acidity ..... Conform
Free alkalinity ..... ≤0.03 meq/g
Chloride ..... ≤200 ppm
Water-insoluble matter ..... ≤50 ppm
Heavy metals (Pb) ..... ≤10 ppm
Fe ..... ≤10 ppm
Assay (oxidimetric) ..... ≥98.0 %

Code	Size	Packaging	Notes
483256	100 g	Plastic bottle	
483257	1 kg	Plastic bottle	
483258	2.5 kg	Plastic bottle	
483252	25 kg	Plastic bucket	

Sodium sulfite anhydrous > ERBApharm - According to pharmacopoeia : BP-Ph.Eur.
ERBApharm

Description ..... White powder
Identification ..... Positive
Appearance of solution ..... Conform Ph.Eur.
Heavy metals (Pb) ..... ≤10 ppm
Thiosulphate ..... ≤0.1 %
Fe ..... ≤10 ppm
Se ..... ≤10 ppm
Zn ..... ≤25 ppm
Assay (oxidimetric) ..... 95.0 ÷ 100.5 %
Origin (BSE/TSE) ..... Synthesis
Residual solvents (CPMP/ICH/283/95) ..... Conform

Code	Size	Packaging	Notes
376006	1 kg	Plastic bottle	
376008	2.5 kg	Plastic bottle	
376009	5 kg	Plastic jar	
376002	10 kg	Plastic jar	
376003	25 kg	Plastic bucket	
376004	50 kg	Plastic bucket	

Sodium sulfide nonahydrate solution
Sodio solfuro nonaidrato soluzione • Sodium sulfure nonahydraté solution • Sodio sulfuro nonahidrato solución

$Na_2S.9H_2O$
Molecular Weight: 240,18
CAS: 1313-84-4

Classification transport
ONU: 2922
Transport Hazard class: 8
Packing group III

Danger
H314
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Sodium sulfide nonahydrate solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1
RS

Code	Size	Packaging	Notes
611083901	100 ml	Plastic bottle	Ref Ph.Eur 1083901
611083902	100 ml	Plastic bottle	Sodium sulfide solution R1 Ref Ph.Eur 1083902

Sodium sulfocyanate
Sodio solfocianuro • Sodium sulfocyanure • Sodio sulfocianuro

Synonym:
Sodium thiocyanate
Sodium rhodanate

NaSCN
Molecular Weight: 81,07
CAS: 540-72-7
EEC-N: 208-754-4

Warning
H302-HEU032
P264-P270-P330-P301+P312a-P501a

Sodium sulfocyanate > RPE - For analysis - ACS
RPE

Description ..... White crystals
Identification ..... Positive
Ammonium ..... ≤20 ppm
Carbonate ..... ≤0.2 %
Chloride ..... ≤100 ppm
Water-insoluble matter ..... ≤50 ppm
Heavy metals (Pb) ..... ≤5 ppm
Sulphate ..... ≤100 ppm
Sulphide ..... ≤10 ppm
Fe ..... ≤2 ppm
Assay (argentimetric) ..... ≥98.0 %

Code	Size	Packaging	Notes
483354	100 g	Plastic bottle	
483356	500 g	Plastic bottle	

Sodium tartrate dihydrate

Sodio tartrato diidrato • Sodium tartrate dihydraté • Sodio tartrato dihidrato

Synonym:
L-(+)tartaric acid disodium salt
Disodium tartrate dihydrate

$(CHOHCOONa)_2.2H_2O$
Molecular Weight: 230,08
CAS: 6106-24-7
EEC-N: 212-773-3

Sodium tartrate dihydrate > RS - For Karl Fischer's reagent standardization - ACS

RS

Description ..... White crystalline powder
Identification ..... Positive
pH sol. 5% at 25° C ..... 7.0 ÷ 9.0
Loss on drying 150° C.... 15.61 ÷ 15.71 %
Ammonium ..... ≤30 ppm
Chloride ..... ≤5 ppm
Phosphate ..... ≤5 ppm
Water-insoluble matter ..... ≤50 ppm
Heavy metals (Pb) ..... ≤5 ppm
Sulphate ..... ≤50 ppm
Ca ..... ≤100 ppm
Fe ..... ≤10 ppm
Assay (non-aqueos medium) . 99.0 ÷ 101.0 %

Code	Size	Packaging	Notes
483561	100 g	Plastic bottle	

Sodium tartrate dihydrate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description ..... White crystalline powder
Identification ..... Positive
pH sol. 5% at 25° C ..... 7.0 ÷ 9.0
Loss on drying at 150°C. 15.61 ÷ 15.71 %
Ammonium ..... ≤ 30 ppm
Chloride ..... ≤ 5 ppm
Phosphate ..... ≤ 5 ppm
Water-insoluble matter ..... ≤ 50 ppm
Heavy metals (Pb) ..... ≤ 5 ppm
Sulphate ..... ≤ 50 ppm
Ca ..... ≤ 100 ppm
Fe ..... ≤ 10 ppm
Assay (non-aqueos medium) . 99.0 ÷ 101.0 %

Code	Size	Packaging	Notes
483635	100 g	Plastic bottle	
483636	500 g	Plastic bottle	
483637	1 kg	Plastic bottle	

Sodium tetraborate anhydrous

Sodio tetraborato anidro • Sodium tétraborate anhydre • Sodio tetraborato anhidro

Synonym:
Borax

$Na_2B_4O_7$
Molecular Weight: 201,22
CAS: 1330-43-4
EEC-N: 215-540-4

Danger
H360FD-HA26
P280-P201-P202-P308+P313-P405-P501a

Sodium tetraborate anhydrous > RPE - For analysis

RPE

Description ..... White crystals
Identification ..... Positive
Chloride ..... ≤ 500 ppm
Heavy metals (Pb) ..... ≤ 50 ppm
Ca ..... ≤ 500 ppm
Fe ..... ≤ 100 ppm
Assay (acidimetric) ..... ≥ 98.0 %

Code	Size	Packaging	Notes
483735	100 g	Plastic bottle	
483736	1 kg	Plastic bottle	

Sodium tetraborate decahydrate

Sodio tetraborato decaidrato • Sodium tétraborate décahydraté • Sodio tetraborato decahidrato

Synonym:
Borax decahydrate

$Na_2B_4O_7.10H_2O$
Molecular Weight: 381,37
CAS: 1303-96-4
EEC-N: 215-540-4

Danger
H360FD-HA26
P280-P201-P202-P308+P313-P405-P501a

Sodium tetraborate decahydrate > RPE - For analysis - ACS - ISO

RPE

Description ..... White crystals
Identification ..... Positive
pH sol. M/100 at 25° C ..... 9.00 ÷ 9.50
Carbonate ..... ≤50 ppm
Chloride ..... ≤5 ppm
Phosphate ..... ≤5 ppm
Water-insoluble matter ..... ≤30 ppm
Heavy metals (Pb) ..... ≤5 ppm
Sulphate ..... ≤10 ppm
As ..... ≤1 ppm
Ca ..... ≤50 ppm
Cu ..... ≤2 ppm
Fe ..... ≤5 ppm
K ..... ≤50 ppm
Mg ..... ≤10 ppm
Ni ..... ≤2 ppm
Pb ..... ≤2 ppm
Zn ..... ≤2 ppm
Assay (acidimetric) ..... ≥99.5 %

Code	Size	Packaging	Notes
478815	100 g	Plastic bottle	
478816	500 g	Plastic bottle	
478817	1 kg	Plastic bottle	
478819	5 kg	Plastic jar	
478812	25 kg	Plastic bucket	

Sodium tetraborate decahydrate > ERBApharm - According to pharmacopoeia : BP-FU-NF-Ph.Eur.-Ph. Franc.

ERBApharm

Description ..... White crystalline powder
Identification ..... Positive
Appearance of solution ..... Conform Ph.Eur
Carbonates and bicarb..... Conform USP-NF
pH sol. 4% at 25 °C ..... 9.0 ÷ 9.6
Ammonium ..... ≤ 10 ppm
Heavy metals (Pb) ..... ≤ 20 ppm
Sulphate ..... ≤ 50 ppm
As ..... ≤ 5 ppm
Ca ..... ≤ 100 ppm
Fe ..... ≤ 4 ppm
Assay (alkalimetric) ..... 99.0 ÷ 103.0 %

Code	Size	Packaging	Notes
367207	1 kg	Plastic bottle	
367209	5 kg	Plastic jar	
367201	25 kg	Plastic bucket	

Sodium tetraphenylborate

Sodio tetrafenilborato • Sodium tétraphénylborate • Sodio tetrafenilborato

Synonym:
Tetraphenylboron sodium salt

$Na[B(C_6H_5)_4]$
Molecular Weight: 342,23
CAS: 143-66-8
EEC-N: 205-605-5

Classification transport
ONU: 2811
Transport Hazard class: 6.1
Packing group III

Danger
H301
P264-P270-P301+P310a-P330-P321-P405

Sodium tetraphenylborate > RPE - For analysis - ACS

RPE

Description ..... White crystalline powder
Identification ..... Positive
Appearance of solution ..... Conform
Loss on drying ..... ≤0.5 %
Assay (gravimetric) ..... ≥99.5 %

Code	Size	Packaging	Notes
483758	5 g	Glass bottle	
483751	25 g	Glass bottle	

Reagent for the precipitation titration and potassium

Sodium thiocyanate ▶ Sodium sulfocyanate

Sodium thiosulfate anhydrous

Sodio tiosolfato anidro • Sodium thiosulfate anhydre • Sodio tiosulfato anhidro

$Na_2S_2O_3$
Molecular Weight: 158,11
CAS: 7772-98-7
EEC-N: 231-867-5

Sodium thiosulfate anhydrous > RE - Pure

RE

Description ..... White crystalline powder
Identification ..... Positive
pH sol 10% ..... 6.5 ÷ 9.5
Sulphat + sulphit (SO4) ..... ≤ 1 %
Loss on drying ..... ≤ 2 %
Heavy metals (Pb) ..... ≤ 50 ppm
Assay (oxidimetric) ..... ≥98 %
Fe ..... ≤ 50 ppm

Code	Size	Packaging	Notes
378377	1 kg	Plastic bottle	
378378	5 kg	Plastic jar	
378372	10 kg	Plastic jar	

Sodium thiosulfate pentahydrate

Sodio tiosolfato pentaidrato • Sodium thiosulfate pentahydraté • Sodio tiosulfato pentahidrato

$Na_2S_2O_3.5H_2O$
Molecular Weight: 248,18
CAS: 10102-17-7
EEC-N: 231-867-5

Sodium thiosulfate pentahydrate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description .....Semitransparent crystals
Identification ..... Positive
pH sol. 5% at 25° C .....6.0 ÷ 8.4
Total nitrogen .....≤20 ppm
Water-insoluble matter .....≤50 ppm
Sulphat + sulphit (SO4) ..... ≤0.1 %
Sulphide .....≤1 ppm
Assay (iodometric).....99.5 ÷ 101.0 %
Appearance of solution .....Conform
pH sol. 10% at 20°C .....6.0 ÷ 8.4
Heavy metals (Pb).....≤10 ppm

Code	Size	Packaging	Notes
483825	100 g	Plastic bottle	
483826	500 g	Plastic bottle	
483827	1 kg	Plastic bottle	
483829	5 kg	Plastic jar	
483821	25 kg	Plastic bucket	

Sodium thiosulfate pentahydrate > ERBApharm - According to pharmacopoeia : Ph.Eur.-USP-FU-Ph.Franc.-BP

ERBApharm

Description .....Colourless crystals
Identification ..... Positive
Appearance of solution .....Conform Ph.Eur.
Sulphide .....Conform Ph.Eur.
Ca ..... Conform USP-NF
pH sol 10%.....6.0 ÷ 8.4
Loss at 45°C .....32.0 ÷ 37.0 %
Sulphat + sulphit (SO4) ..... ≤0.2 %
Heavy metals (Pb).....≤10 ppm
Assay (iodometric).....99.0 ÷ 100.5 % s.s.

Code	Size	Packaging	Notes
377907	1 kg	Plastic bottle	
377909	5 kg	Plastic jar	
377901	25 kg	Drum	

Sodium thiosulfate pentahydrate > RE - Pure

RE

Description .....Colourless crystals
Identification ..... Positive
Ins.,Ca,Mg & ppt NH4OH ..... ≤ 0.2 %
Heavy metals (Pb).....≤ 10 ppm
S.....≤ 20 ppm
Fe .....≤ 2 ppm
Assay (oxidimetric) ..... ≥ 99 %

Code	Size	Packaging	Notes
378207	1 kg	Plastic bottle	
378209	5 kg	Plastic jar	
378202	25 kg	Plastic bucket	
378204	50 kg	Plastic bucket	

Sodium thiosulfate 1 mol/l (1N)

Sodio tiosolfato 1 mol/l (1N) • Sodium thiosulfate 1 mol/l (1N) • Sodio tiosulfato 1 mol/l (1N)

$Na_2S_2O_3.5H_2O$
Molecular Weight: 248,18
CAS: 10102-17-7

Sodium thiosulfate 1 mol/l (1N) > RPE - For analysis

RPE

Description ..... Clear colourless liquid
Assay (potentiometry) .....0.99 - 1.01 N

Code	Size	Packaging	Notes
484026	500 ml	Glass bottle	

158,11 g of Na2S2O3. Volumetric solution ready-to-use: 1 N

Sodium thiosulfate 0.5 mol/l (0.5N)

Sodio tiosolfato 0.5 mol/l (0.5N) • Sodium thiosulfate 0.5 mol/l (0.5N) • Sodio tiosulfato 0.5 mol/l (0.5N)

$Na_2S_2O_3.5H_2O$
Molecular Weight: 248,18
CAS: 10102-17-7

Sodium thiosulfate 0.5 mol/l (0.5N) > RPE - For analysis

RPE

Assay (potentiometry) ..... 0.499 - 0.501 N

Code	Size	Packaging	Notes
P3530015	1 l	Plastic bottle	

Sodium thiosulfate 0.2 mol/l (0.2N)

Sodio tiosolfato 0.2 mol/l (0.2N) • Sodium thiosulfate 0.2 mol/l (0.2N) • Sodio tiosulfato 0.2 mol/l (0.2N)

$Na_2S_2O_3.5H_2O$
Molecular Weight: 248,18
CAS: 10102-17-7

Sodium thiosulfate 0.2 mol/l (0.2N) > RPE - For analysis

RPE

Assay (potentiometry) ..... 0.1998 - 0.2002 N

Code	Size	Packaging	Notes
P3520022	5 l	Plastic tank	

Sodium thiosulfate 0.1 mol/l (0.1N)

Sodio tiosolfato 0.1 mol/l (0.1N) • Sodium thiosulfate 0.1 mol/l (0.1N) • Sodio tiosulfato 0.1 mol/l (0.1N)

$Na_2S_2O_3.5H_2O$
Molecular Weight: 248,18
CAS: 10102-17-7

Sodium thiosulfate 0.1 mol/l (0.1N) > RS - For analysis according to Ph. Eur. Chap. 4.2.2

RS

Code	Size	Packaging	Notes
613007301	500 ml	Glass bottle	Ref Ph.Eur 3007300
613007300	1 l	Glass bottle	Ref Ph.Eur 3007300

Sodium thiosulfate 0.1 mol/l (0.1N) > RPE - For analysis

RPE

Description ..... Clear colourless liquid Assay (potentiometry) ..... 0.0999 - 0.1001 N NIST 136 ..... e

Code	Size	Packaging	Notes
484077000	1 l	Glass bottle	
484072000	5 l	Kubidos	
484071000	10 l	Kubidos	

15.811 g of Na2S2O3. Volumetric solution ready-to-use : 0.1N. Traceable to NIST

Sodium thiosulfate 0.1 mol/l (0.1N) > RPE - NORMEX - For analysis

RPE

Description ..... Clear colourless liquid Identification ..... Positive Titration factor ..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
484121		Plastic ampoule	Volume : 55 ml

Volumetric concentrated solution to prepare 1 L of solution 0,1 M

Sodium thiosulfate 0.0394 mol/l (0.0394N)

Sodio tiosolfato 0.0394 mol/l (0.0394N) • Sodium thiosulfate 0.0394 mol/l (0.0394N) • Sodio tiosulfato 0.0394 mol/l (0.0394N)

$Na_2S_2O_3.5H_2O$
Molecular Weight: 248,18
CAS: 10102-17-7

Sodium thiosulfate 0.0394 mol/l (0.0394N) > RPE - For analysis

RPE

Description ..... Clear colourless liquid Assay (potentiometry) ..... 0.0390 - 0.0398 N

Code	Size	Packaging	Notes
484141	2.5 l	Glass bottle	

Sodium thiosulfate 0.01 mol/l (0.01N)

Sodio tiosolfato 0.01 mol/l (0.01N) • Sodium thiosulfate 0.01 mol/l (0.01N) • Sodio tiosulfato 0.01 mol/l (0.01N)

$Na_2S_2O_3.5H_2O$
Molecular Weight: 248,18
CAS: 10102-17-7

Sodium thiosulfate 0.01 mol/l (0.01N) > RPE - NORMEX - For analysis

RPE

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
484161		Plastic ampoule	Volume : 55 ml

1,581 g Na2S2O3. Volumetric concentrated solution to prepare 1 L of solution 0,01 N

Sodium p-toluenesulfonate ▶ p-Toluenesulfonic acid sodium salt

Sodium tungstate dihydrate

Sodio tungstato diidrato • Sodium tungstate dihydraté • Sodio tungstato dihidrato

Synonym:
Tungstic acid sodium salt dihydrate

$Na_2WO_4.2H_2O$
Molecular Weight: 329,86
CAS: 10213-10-2
EEC-N: 236-743-4

Warning
H302-H319
P264-P280-P305+P351+P338-P330-P337+P313-P301+P312a

Sodium tungstate dihydrate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description ..... White crystals Chloride..... ≤ 50 ppm Sulphate ..... ≤ 100 ppm
Identification ..... Positive Water-insoluble matter ..... ≤ 100 ppm Mo ..... ≤ 10 ppm
Free alkalinity..... ≤ 0.02 meq/g Heavy metals and Fe(Pb)..... ≤ 10 ppm Assay (gravimetric) ..... 99.0 ÷ 101.0 %

Code	Size	Packaging	Notes
484233	50 g	Glass bottle	
484236	500 g	Plastic bottle	

Sodium tungstate solution 10%

Sodio tungstato soluzione 10% • Sodium tungstate solution 10% • Sodio tungstato solución 10%

Synonym:
Tungstic acid sodium salt dihydrate

$Na_2WO_4.2H_2O$
Molecular Weight: 329,86
CAS: 10213-10-2

Warning
H319
P264-P280-P305+P351+P338-P337+P313

Sodium tungstate solution 10% > RPE - For analysis

RPE

Description ..... Clear colourless liquid Identification ..... Positive Density at 20° C ..... 1.086 ÷ 1.094

Code	Size	Packaging	Notes
484282	500 ml	Bottle	

Solvent Plus
Solvente Plus • Solvant Plus • Disolvente Plus

CAS: 68551-19-9
EEC-N: 271-369-5

Classification transport
ONU: 1993
Transport Hazard class: 3
Packing group III

Danger
H226-H304
P210-P241-P243-P280a-P303+P361+P353-P403+P235

Solvent Plus > RS - For histology
RS

Description ..... Clear liquid | Identification ..... Positive | Aromatic compounds..... ≤ 0.05 % | Distillation range ..... 175 ÷ 213 °C

Code	Size	Packaging	Notes
446187	2.5 l	Glass bottle	
446181	5 l	Plastic tank	

Sorbitol
Sorbitolo • Sorbitol • Sorbitol

Synonym:
D-Glucitol

$C_6H_{14}O_6$
Molecular Weight: 182,17
CAS: 50-70-4
EEC-N: 200-061-5

Sorbitol > ERBApharm - According to pharmacopoeia : FU-Ph.Eur.
ERBApharm

Description ..... White crystalline powder
Identification ..... Positive
Water (K.F.) ..... ≤ 1.5 %
Ni ..... ≤ 1 ppm
Pb ..... ≤ 0.5 ppm

Reducing sugar ..... Conform Ph.Eur.
Assay (HPLC) ..... 97.0 ÷ 102.0 % anidro
Appearance of solution ..... Conform Ph.Eur.
Specific optical rotation (anhydrous) +4.0 ÷ +7.0 °

Sostanze analoghe (HPLC) .Conform Ph.Eur.
Conductivity ..... ≤ 20 µS.cm-1
Microbial tests
TAMC ..... ≤ 1000 CFU/g
TYMC ..... ≤ 100 CFU/g

Escherichia coli ..... Absent Ph. Eur.
Salmonella ..... Absent Ph. Eur.

Code	Size	Packaging	Notes
379014	50 kg	Fibre drum	

Sorbitol (no crystallizable) solution 70%
Sorbitolo (non cristallizzabile) soluzione 70% • Sorbitol solution 70% • Sorbitol (no cristalizable) solución 70%

Synonym:
D-Glucitol

$C_6H_{14}O_6$
Molecular Weight: 182,17
CAS: 50-70-4
EEC-N: 200-061-5

Sorbitol (no crystallizable) solution 70% > ERBApharm - According to pharmacopoeia : Ph.Eur.-NF
ERBApharm

Description ..... Clear colourless liquid
Identification ..... Positive
Appearance of solution ..... Conform Ph.Eur.
Water (K.F.) ..... 28.5 ÷ 31.5 %

Conductivity ..... ≤ 10 µS.cm-1
Ni ..... ≤ 1 ppm
Pb ..... ≤ 0.5 ppm
Reducing sugar ..... ≤ 0.2 %

Zuccheri riducenti dopo idrolisi..... ≤ 9.3 %
Specific optical rotation..... +1.5 - +3.5 °
Residue on ignition ..... ≤ 0.1 %
pH sol. 14% ..... 5.0 - 7.5

Assay (HPLC)
Sostanza anidra ..... 68.0 ÷ 72.0 %
D- Sorbitolo ..... 72.0 ÷ 92.0 %

Code	Size	Packaging	Notes
379021	1 l	Plastic bottle	

D-Sorbitol

D-Sorbitolo • D-Sorbitol • D-Sorbitol

Synonym:
D-Glucitol

$C_6H_{14}O_6$
Molecular Weight: 182,17
CAS: 50-70-4
EEC-N: 200-061-5

D-Sorbitol > RPE - For analysis

RPE

Description ..... White crystalline powder
Identification ..... Positive
Loss on drying ..... ≤1 %
Chloride ..... ≤50 ppm
Heavy metals (Pb) ..... ≤10 ppm
Residue on ignition ..... ≤0.1 %
Sulphate ..... ≤100 ppm
Red.ing sugars(Glucose) ..... ≤0.1 %
Totol sugars(Glucose) ..... ≤0.3 %
As ..... ≤2 ppm
Ca ..... ≤50 ppm
Fe ..... ≤10 ppm
Assay (oxidimetric) ..... ≥98 %

Code	Size	Packaging	Notes
484704	100 g	Plastic bottle	
484705	250 g	Plastic bottle	
484701	1 kg	Plastic bottle	

Standard Mixture for hydrocarbon analysis

Soluzione standard per analisi degli idrocarburi • Mélange standard pour analyse des hydrocarbures • Mezcla estándar para análisis de hidrocarburos

Standard Mixture for hydrocarbon analysis > RS - For enviromental analysis according to NF EN ISO 9377-2

RS

Code	Size	Packaging	Notes
506002	1 ml	Glass ampoule	Standard quality control of two mineral oils in acetone
506010	1 ml	Glass ampoule	Mixture of mineral oil without additive 2 to 5 mg / ml each in hexane
506020	1 ml	Glass ampoule	Standard mixture of n-alkanes (C10 to C40 in pairs) of 50 mcg / ml each in hexane
506040	5 ml	Glass ampoule	N-tetracontane mixture (20 mg / l) and n-decane (20 mg / l) in hexane
506011	10 ml	Glass ampoule	Mixture of mineral oil without additive 2 to 1 mg / ml each in hexane
506030	10 ml	Glass ampoule	Mother solution stearyl stearate 2 g / l in hexane

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Standard solution 1.30 µS/cm

Soluzione standard da 1.30 µS/cm • Etalon de conductivité 1.30 µS/cm • Solución patrón de 1.30 µS/cm

Classification transport
ONU: 1274
Transport Hazard class: 3
Packing group III

Danger
H226-H318-H336
P210-P241-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

Standard solution 1.30 µS/cm > RS - For conductivity

RS

Description ..... Clear colourless liquid
Identification ..... Positive
Conductivity at 25°C ..... 1.25 ÷ 1.35 µS/cm

Code	Size	Packaging	Notes
575231	250 ml	Glass bottle	

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Standard solution 5 µS/cm
Soluzione standard da 5 µS/cm • Etalon de conductivité 5 µS/cm • Solución patrón de 5 µS/cm

Classification transport
ONU: 1274
Transport Hazard class: 3
Packing group III

Danger
H226-H318-H336
P210-P241-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

Standard solution 5 µS/cm > RS - For conductivity
RS

Description ..... Clear colourless liquid Identification ..... Positive Conductivity at 25°C .....4.95 ÷ 5.05 µS/cm

Code	Size	Packaging	Notes
575001	250 ml	Glass bottle	

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Standard solution 10 µS/cm
Soluzione standard da 10 µS/cm • Etalon de conductivité 10µS/cm • Solución patrón de 10 µS/cm

Classification transport
ONU: 1274
Transport Hazard class: 3
Packing group III

Danger
H226-H318-H336
P210-P241-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

Standard solution 10 µS/cm > RS - For conductivity
RS

Description ..... Clear colourless liquid Identification ..... Positive Conductivity at 25°C .....9.80 ÷ 10.20 µS/cm

Code	Size	Packaging	Notes
575011	250 ml	Glass bottle	

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Standard solution 20 µS/cm
Soluzione standard da 20 µS/cm • Etalon de conductivité 20 µS/cm • Solución patrón de 20 µS/cm

Classification transport
ONU: 1274
Transport Hazard class: 3
Packing group III

Danger
H226-H318-H336
P210-P241-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

Standard solution 20 µS/cm > RS - For conductivity
RS

Description ..... Clear colourless liquid Identification ..... Positive Conductivity at 25°C .....19.80 ÷ 20.20 µS/cm

Code	Size	Packaging	Notes
575021	500 ml	Plastic bottle	

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Standard solution 50 µS/cm
Soluzione standard da 50 µS/cm • Etalon de conductivité 50 µS/cm • Solución patrón de 50 µS/cm

Classification transport
ONU: 1274
Transport Hazard class: 3
Packing group III

Danger
H226-H318-H336
P210-P241-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

Standard solution 50 µS/cm > RS - For conductivity
RS

Description ..... Clear colourless liquid Identification ..... Positive Conductivity at 25°C .....49.5 ÷ 50.5 µS/cm

Code	Size	Packaging	Notes
575031	500 ml	Glass bottle	

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Standard solution 84 µS/cm
Soluzione standard da 84 µS/cm • Etalon de conductivité 84 µS/cm • Solución patrón de 84 µS/cm

Standard solution 84 µS/cm > RS - For conductivity
RS

Description ..... Clear colourless liquid Identification ..... Positive Conductivity at 25°C .....83.16 ÷ 84.84 µS/cm

Code	Size	Packaging	Notes
575041	500 ml	Plastic bottle	

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Standard solution 100 µS/cm
Soluzione standard da 100 µS/cm • Etalon de conductivité 100 µS/cm • Solución patrón de 100 µS/cm

Standard solution 100 µS/cm > RS - For conductivity
RS

Description ..... Clear colourless liquid Identification ..... Positive Conductivity at 25°C .....99.0 ÷ 101.0 µS/cm

Code	Size	Packaging	Notes
575051	500 ml	Plastic bottle	

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Standard solution 147 µS/cm
Soluzione standard da 147 µS/cm • Etalon de conductivité 147 µS/cm • Solución patrón de 147 µS/cm

Standard solution 147 µS/cm > RS - For conductivity
RS

Description ..... Clear colourless liquid Identification ..... Positive Conductivity at 25°C .....145.5 ÷ 148.5 µS/cm

Code	Size	Packaging	Notes
575061	500 ml	Plastic bottle	

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Standard solution 200 µS/cm
Soluzione standard da 200 µS/cm • Etalon de conductivité 200 µS/cm • Solución patrón de 200 µS/cm

Standard solution 200 µS/cm > RS - For conductivity
RS

Description ..... Clear colourless liquid Identification ..... Positive Conductivity at 25°C .....198.0 ÷ 202.0 µS/cm

Code	Size	Packaging	Notes
575071	500 ml	Plastic bottle	

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Standard solution 500 µS/cm
Soluzione standard da 500 µS/cm • Etalon de conductivité 500 µS/cm • Solución patrón de 500 µS/cm

Standard solution 500 µS/cm > RS - For conductivity
RS

Description ..... Clear colourless liquid Identification ..... Positive Conductivity at 25°C .....495.0 ÷ 505.0 µS/cm

Code	Size	Packaging	Notes
575081	500 ml	Plastic bottle	

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Standard solution 1000 µS/cm
Soluzione standard da 1000 µS/cm • Etalon de conductivité 1000 µS/cm • Solución patrón de 1000 µS/cm

Standard solution 1000 µS/cm > RS - For conductivity
RS

Description ..... Clear colourless liquid Identification ..... Positive Conductivity at 25°C .....990.0 ÷ 1010.0 µS/cm

Code	Size	Packaging	Notes
575091	500 ml	Plastic bottle	

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Standard solution 1413 µS/cm
Soluzione standard da 1413 µS/cm • Etalon de conductivité 1413 µS/cm • Solución patrón de 1413 µS/cm

Standard solution 1413 µS/cm > RS - For conductivity
RS

Description ..... Clear colourless liquid Identification ..... Positive Conductivity at 25°C .....1399 ÷ 1427 µS/cm

Code	Size	Packaging	Notes
575101	500 ml	Plastic bottle	

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Standard solution 5000 µS/cm
Soluzione standard da 5000 µS/cm • Etalon de conductivité 5000 µS/cm • Solución patrón de 5000 µS/cm

Warning
H302
P264-P270-P330-P301+P312a-P501a

Standard solution 5000 µS/cm > RS - For conductivity
RS

Description ..... Clear colourless liquid Identification ..... Positive Conductivity at 25°C .....4950 ÷ 5050 µS/cm

Code	Size	Packaging	Notes
575111	500 ml	Plastic bottle	

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Standard solution 10000 µS/cm
Soluzione standard da 10000 µS/cm • Etalon de conductivité 10 000 µS/cm • Solución patrón de 10000 µS/cm

Warning
H302
P264-P270-P330-P301+P312a-P501a

Standard solution 10000 µS/cm > RS - For conductivity
RS

Description ..... Clear colourless liquid Identification ..... Positive Conductivity at 25°C .....9900 ÷ 10100 µS/cm

Code	Size	Packaging	Notes
575121	500 ml	Plastic bottle	

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Standard solution 12880 µS/cm
Soluzione standard da 12880 µS/cm • Etalon de conductivité 12 880 µS/cm • Solución patrón de 12880 µS/cm

Warning
H302
P264-P270-P330-P301+P312a-P501a

Standard solution 12880 µS/cm > RS - For conductivity
RS

Description ..... Clear colourless liquid Identification ..... Positive Conductivity at 25°C .....12751 ÷ 13009 µS/cm

Code	Size	Packaging	Notes
575131	500 ml	Plastic bottle	

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Standard solution 20000 µS/cm

Soluzione standard da 20000 µS/cm • Etalon de conductivité 20 000 µS/cm • Solución patrón de 20000 µS/cm

Warning
H302
P264-P270-P330-P301+P312a-P501a

Standard solution 20000 µS/cm > RS - For conductivity

RS

Description ..... Clear colourless liquid Identification ..... Positive Conductivity at 25°C .....19800 ÷ 20200 µS/cm

Code	Size	Packaging	Notes
575141	500 ml	Plastic bottle	

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Standard solution 50000 µS/cm

Soluzione standard da 50000 µS/cm • Etalon de conductivité 50 000 µS/cm • Solución patrón de 50000 µS/cm

Warning
H302
P264-P270-P330-P301+P312a-P501a

Standard solution 50000 µS/cm > RS - For conductivity

RS

Description ..... Clear colourless liquid Identification ..... Positive Conductivity at 25°C .....49500 ÷ 50500 µS/cm

Code	Size	Packaging	Notes
575151	500 ml	Plastic bottle	

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Standard solution 100000 µS/cm

Soluzione standard da 100000 µS/cm • Etalon de conductivité 100 000 µS/cm • Solución patrón de 100000 µS/cm

Warning
H302
P264-P270-P330-P301+P312a-P501a

Standard solution 100000 µS/cm > RS - For conductivity

RS

Description ..... Clear colourless liquid Identification ..... Positive Conductivity at 25°C .....99000 ÷ 101000 µS/cm

Code	Size	Packaging	Notes
575161	500 ml	Plastic bottle	

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Standard solution 150000 µS/cm

Soluzione standard da 150000 µS/cm • Etalon de conductivité 150 000 µS/cm • Solución patrón de 150000 µS/cm

Warning
H302
P264-P270-P330-P301+P312a-P501a

Standard solution 150000 µS/cm > RS - For conductivity

RS

Description ..... Clear colourless liquid Identification ..... Positive Conductivity at 25°C .....148500 ÷ 151500 µS/cm

Code	Size	Packaging	Notes
575171	500 ml	Plastic bottle	

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Standard solution 200000 µS/cm

Soluzione standard da 200000 µS/cm • Etalon de conductivité 200 000 µS/cm • Solución patrón de 200000 µS/cm

Warning
H302
P264-P270-P330-P301+P312a-P501a

Standard solution 200000 µS/cm > RS - For conductivity

RS

Description ..... Clear colourless liquid Identification ..... Positive Conductivity at 25°C .....198000 ÷ 202000 µS/cm

Code	Size	Packaging	Notes
575181	500 ml	Plastic bottle	

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Standard solution 300000 µS/cm

Soluzione standard da 300000 µS/cm • Etalon de conductivité 300 000 µS/cm • Solución patrón de 300000 µS/cm

Warning
H302
P264-P270-P330-P301+P312a-P501a

Standard solution 300000 µS/cm > RS - For conductivity

RS

Description ..... Clear colourless liquid Identification ..... Positive Conductivity at 25°C .....297000 ÷ 303000 µS/cm

Code	Size	Packaging	Notes
575191	500 ml	Plastic bottle	

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Standard solution 350000 µS/cm

Soluzione standard da 350000 µS/cm • Etalon de conductivité 350 000 µS/cm • Solución patrón de 350000 µS/cm

Classification transport
ONU: 3264
Transport Hazard class: 8
Packing group II

Warning
H302-H315-H319
P264-P280-P305+P351+P338-P330-P332+P313-P337+P313

Standard solution 350000 µS/cm > RS - For conductivity

RS

Code	Size	Packaging	Notes
575201	500 ml	Plastic bottle	

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Standard solution 450000 µS/cm

Soluzione standard da 450000 µS/cm • Etalon de conductivité 450 000 µS/cm • Solución patrón de 450000 µS/cm

Standard solution 450000 µS/cm > RS - For conductivity

RS

Description ..... Clear colourless liquid Identification ..... Positive Conductivity at 25°C .....445500 ÷ 454500 µS/cm

Code	Size	Packaging	Notes
575211	500 ml	Plastic bottle	

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Standard solution 500000 µS/cm

Soluzione standard da 500000 µS/cm • Etalon de conductivité 500 000 µS/cm • Solución patrón de 500000 µS/cm

Classification transport
ONU: 2796
Transport Hazard class: 8
Packing group II

Danger
H314-H318
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Standard solution 500000 µS/cm > RS - For conductivity

RS

Description ..... Clear colourless liquid Identification ..... Positive Conductivity at 25°C .....495000 ÷ 505000 µS/cm

Code	Size	Packaging	Notes
575221	500 ml	Plastic bottle	

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Standard solutions for degree of coloration of liquids

Soluzioni standard per il grado di colorazione dei liquidi • Solutions étalon pour le degré de coloration des liquides • Soluciónes estándar para el grado de coloración de líquidos

Classification transport
ONU: 1760
Transport Hazard class: 8
Packing group III

Danger
H314-H334-H317-H350-H412-HA26
P264-P273-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338-P342+P311a

Standard solutions for degree of coloration of liquids > RS - For analysis according to Ph. Eur. Chap. 2.2.2

RS

Code	Size	Packaging	Notes
612202510	125 ml	Plastic bottle	Standard solution B (brown)
612202520	125 ml	Plastic bottle	Standard solution BY (brownish-yellow)
612202530	125 ml	Plastic bottle	Standard solution Y (yellow)
612202540	125 ml	Plastic bottle	Standard solution GY (greenish-yellow)
612202550	125 ml	Plastic bottle	Standard solution R (red)

Starch paste solution 1%

Salda d'amido soluzione 1% • Empois d'amidon solution 1% • Almidón en pasta solución 1%

$(C_6H_{10}O_5)n$
CAS: 9005-84-9

Starch paste solution 1% > RPE - For analysis

RPE

Description ..... Colourless opaline liquid Identification ..... Positive

Code	Size	Packaging	Notes
E477301	250 ml	Glass bottle	
E477302	1 l	Bottle	

Stabilized

Starch soluble

Amido solubile • Amidon soluble • Almidón soluble

$(C_6H_{10}O_5)n$
CAS: 9005-84-9
EEC-N: 232-686-4

Starch soluble > RPE - For analysis - Reag.Ph.Eur.

RPE

Description ..... White powder pH solution 2% ..... 5.0 ÷ 7.0 Sulphated ash.....≤ 1.5 %
Identification ..... Positive Loss on drying 100° C.....≤ 20 %

Code	Size	Packaging	Notes
417585	250 g	Plastic bottle	
417587	1 kg	Plastic bottle	

Starch soluble solution
Amido solubile soluzione • Amidon soluble solution • Almidón soluble solución

Starch soluble solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1 — RS

Code	Size	Packaging	Notes
611085103	100 ml	Plastic bottle	Ref Ph.Eur 1085103
611085104	1 l	Bottle	Ref Ph.Eur 1085103

Stearic acid
Acido stearico • Acide stéarique • Acido estearico 50

Synonym:
1-Heptadecanecarboxylic acid

$CH_3(CH_2)_{16}COOH$
Molecular Weight: 284,48
CAS: 57-11-4
EEC-N: 200-313-4

Classification transport
ONU: 1325
Transport Hazard class: 4.1
Packing group III

Warning
H228-H315-H319-H335
P210-P241-P264-P271-P304+P340-P305+P351+P338

Stearic acid > ERBApharm - Vegetal origin - According to pharmacopoeia : Ph.Eur.-NF — ERBApharm

Description ..... White flakes
Identification ..... Positive
Appearance ..... Conform Ph.Eur.
Color of solution ..... Pass test USP-NF
Acidity ..... Conform Ph.Eur.
Acidity index ..... 194 ÷ 212
Iodine value ..... ≤ 4,0
Sulphated ash ..... ≤0,1 %
Heavy metals (Pb) ..... ≤10 ppm
Ni ..... ≤1 ppm
Melting point ..... 53 ÷ 59 ° C
Assay (Stearic Acid) ..... 40.0 ÷ 60.0 %
Assay (Stearic Acid+Palmitic Acid) ≥90.0 %

Code	Size	Packaging	Notes
307112	2.5 kg	Plastic jar	
307115	25 kg	Fibre drum	

Stearic acid calcium salt ▶ Calcium stearate

Stearic acid magnesium salt ▶ Magnesium stearate

Strontium standard solution
Stronzio standard soluzione • Strontium solution standard • Estroncio, solución patrón

Danger
H314
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Strontium standard solution > RS - Standard solution for ICP-MS — RS

Code	Size	Packaging	Notes
505867	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505868	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid
505869	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Strontium standard solution > RS - Standard solution for ICP — RS

Code	Size	Packaging	Notes
503951	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503955	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
503953	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503957	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Strontium standard solution > RS - Standard solution for AAS

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
507760	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
E497665	100 ml	Glass bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
507493	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
E497661	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Strontium standard solution > RS - NORMEX - Concentrated solution for AAS

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
485391		Plastic vial	conc. 1.000 ppm Matrix : Nitric acid - Volume : 50 ml

Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package

Strontium standard solution > RS - Standard solution for ion chromatography

RS

Code	Size	Packaging	Notes
503361	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Strontium acetate

Stronzio acetato • Strontium acétate • Estroncio acetato

$Sr(CH_3COO)_2$
Molecular Weight: 205,71
CAS: 543-94-2
EEC-N: 208-854-8

Strontium acetate > RPE - For analysis

RPE

Description ..... White cryst. powder
Identification ..... Positive
pH sol. 5% at 25° C ..... 6.5 ÷ 8.5
Chloride..... ≤50 ppm
Insol.in dil.acetic ac. ..... ≤50 ppm
Heavy metals (Pb)..... ≤5 ppm
Nitrate ..... ≤30 ppm
Substanc. not ppt H2SO4..... ≤0.15 %
Sulphate ..... ≤30 ppm
Ba ..... ≤50 ppm
Ca ..... ≤0.1 %
Cu ..... ≤2.5 ppm
Fe ..... ≤5 ppm
K..... ≤500 ppm
Na..... ≤0.15 %
Ni..... ≤2.5 ppm
Pb ..... ≤2.5 ppm
Zn ..... ≤2.5 ppm
Assay (complexometric) ..... ≥99 %

Code	Size	Packaging	Notes
485304	100 g	Glass bottle	

Strontium bromide monohydrate

Stronzio bromuro monoidrato • Strontium bromure monohydraté • Estroncio bromuro monohidrato

$SrBr_2.H_2O$
Molecular Weight: 265,43
CAS: 14519-13-2
EEC-N: 233-969-5

Warning
H315-H319-H335
P264-P271-P280-P304+P340-P305+P351+P338-P312a

Strontium bromide monohydrate > RPE - For analysis

RPE

Description ..... Polvere granular bianca
Identification ..... Positive
pH sol. 5% at 25° C ..... 4.8 ÷ 8.0
Bromate ..... ≤10 ppm
Chloride..... ≤0.2 %
Water-insoluble matter ..... ≤100 ppm
Iodide ..... ≤50 ppm
Heavy metals (Pb)..... ≤5 ppm
Substanc. not ppt H2SO4..... ≤0.2 %
Sulphate ..... ≤50 ppm
Sulphide ..... ≤10 ppm
Ba ..... ≤50 ppm
Ca ..... ≤0.1 %
Cu ..... ≤25 ppm
Fe ..... ≤5 ppm
Ni..... ≤25 ppm
Pb ..... ≤25 ppm
Zn ..... ≤25 ppm
Assay (complexometric) ..... 99 ÷ 100 %

Code	Size	Packaging	Notes
485354	100 g	Glass bottle	

Strontium carbonate
Stronzio carbonato • Strontium carbonate • Estroncio carbonato

$SrCO_3$
Molecular Weight: 147,63
CAS: 1633-05-2
EEC-N: 216-643-7

Strontium carbonate > RPE - For analysis
RPE

Description	White powder	HCl-insoluble matter	≤100 ppm	Ca	≤0.2 %	Zn	≤5 ppm
Identification	Positive	Heavy metals (Pb)	≤60 ppm	Cu	≤5 ppm	Assay (complexometric)	99 ÷ 100 %
Alkalinity(SrOH)	≤300 ppm	Substanc. not ppt H2SO4	≤0.3 %	Fe	≤10 ppm		
Chloride	≤10 ppm	Sulphate	≤50 ppm	Ni	≤5 ppm		
Phosphate	≤10 ppm	Ba	≤200 ppm	Pb	≤5 ppm		

Code	Size	Packaging	Notes
485404	100 g	Glass bottle	

Strontium chloride hexahydrate
Stronzio cloruro esaidrato • Strontium chlorure hexahydraté • Estroncio cloruro hexahidratado

$SrCl_2.6H_2O$
Molecular Weight: 266,62
CAS: 10025-70-4
EEC-N: 233-971-6

Danger
H318
P280-P305+P351+P338-P310a

Strontium chloride hexahydrate > RPE - For analysis - ACS
RPE

Description	crist. bianchi	Water-insoluble matter	≤50 ppm	Ba	≤500 ppm	Mg	≤2 ppm
Identification	Positive	Heavy metals (Pb)	≤5 ppm	Ca	≤500 ppm	Assay (complexometric)	99.0 ÷ 103.0 %
pH sol. 5% at 25° C	5.0 ÷ 7.0	Sulphate	≤10 ppm	Fe	≤5 ppm		

Code	Size	Packaging	Notes
485455	250 g	Plastic bottle	
485457	1 kg	Plastic bottle	

Strontium nitrate
Stronzio nitrato • Strontium nitrate • Estroncio nitrato

$Sr(NO_3)_2$
Molecular Weight: 211,63
CAS: 10042-76-9
EEC-N: 233-131-9

Classification transport
ONU: 1507
Transport Hazard class: 5.1
Packing group III

Danger
H272-H302
P221-P264-P210a-P280a-P220-P330

Strontium nitrate > RPE - For analysis - ACS
RPE

Description	White crystalline powder	Chloride	≤20 ppm	Sulphate	≤50 ppm	Assay (complexometric)	≥99.0 %
Identification	Positive	Water-insoluble matter	≤100 ppm	Ba	≤500 ppm		
pH sol. 5% at 25° C	5.0 ÷ 7.0	Mg and Alkali salts	≤0.15 %	Ca	≤500 ppm		
Loss on drying	≤0.1 %	Heavy metals (Pb)	≤5 ppm	Fe	≤5 ppm		

Code	Size	Packaging	Notes
485605	250 g	Plastic bottle	
485607	1 kg	Plastic bottle	

Strontium nitrate > RE - Pure
RE

Description	White cryst. powder	Chloride	≤500 ppm	Heavy metals (Pb)	≤50 ppm	Fe	≤50 ppm
Identification	Positive	Water-insoluble matter	≤0.1 %	Sulphate	≤500 ppm	Assay (complexometric)	≥98 %

Code	Size	Packaging	Notes
379707	1 kg	Plastic bottle	

Strontium sulfate

Stronzio solfato • Strontium sulfate • Estroncio sulfato

Synonym: *Celestite*

$SrSO_4$
Molecular Weight: 183,68
CAS: 7759-02-6
EEC-N: 231-850-2

Strontium sulfate > RPE - For analysis

RPE

Description	White powder	Chloride	≤20 ppm	Ca	≤0.2 %	Zn	≤5 ppm
Identification	Positive	Heavy metals (Pb)	≤10 ppm	Cu	≤5 ppm	Assay (complexometric)	≥99 %
Loss on ignition	≤1 %	Nitrate	≤0.1 %	Fe	≤10 ppm		
Acidity(Sulphuric acid)	≤200 ppm	Soluble salts	≤0.3 %	Ni	≤5 ppm		
Alkalinity(SrOH)	≤30 ppm	Ba	≤100 ppm	Pb	≤5 ppm		

Code	Size	Packaging	Notes
485705	250 g	Plastic bottle	

Succinic acid

Acido succinico • Acide succinique • Acido succínico

Synonym: *Butanedioic acid*

$HOOC(CH_2)_2COOH$
Molecular Weight: 118,09
CAS: 110-15-6
EEC-N: 203-740-4

Warning
H319
P264-P280-P305+P351+P338-P337+P313

Succinic acid > RPE - For analysis

RPE

Description	white crystalline powder	Water (K.F.)	≤ 0.5 %	Fe	≤ 5 ppm
Melting point	185 ÷ 190 °C	Assay (complexometric)	≥ 99.5 % s.s	Other organic acid	≤ 0.5 %

Code	Size	Packaging	Notes
411025	250 g	Plastic bottle	
411027	1 kg	Plastic bottle	
411023	25 kg	Plastic bucket	

Succinic anhydride

Anidride succinica • Anhydride succinique • Anhídrido succínico

Synonym: *Dihydro-2,5-furandione*

$(CH_2CO)_2O$
Molecular Weight: 100,07
CAS: 108-30-5
EEC-N: 203-570-0

Warning
H302-H319-H335
P264-P271-P304+P340-P305+P351+P338-P330-P337+P313

Succinic anhydride > RPE - For analysis

RPE

Description	White crystals	Ammonium	≤20 ppm	Residue on ignition	≤100 ppm	Assay (as anhydride)	≥99 %
Identification	Positive	Chloride	≤10 ppm	Total sulphur	≤20 ppm		
Melting point	117.6 ÷ 121.6 °C	Heavy metals (Pb)	≤5 ppm	Fe	≤5 ppm		

Code	Size	Packaging	Notes
422204	100 g	Glass bottle	

Succinic anhydride > RE - Pure

RE

Description	White flakes	Melting point	118.2 ÷ 119.0 °C	Heavy metals (Pb)	≤10 ppm	Assay (as anhydride)	≥99 %
Identification	Positive	Chloride	≤150 ppm	Sulphate	≤400 ppm		

Code	Size	Packaging	Notes
318507	1 kg	Plastic bottle	

D(+)-Sucrose

D(+)-Saccarosio • D(+)-Saccharose • D(+)-Sacarosa

Synonym: *α-D-Glucopyranosyl β-D-fructofuranoside*

$C_{12}H_{22}O_{11}$
Molecular Weight: 342,3
CAS: 57-50-1
EEC-N: 200-334-9

D(+)-Sucrose > RPE - For analysis - ACS

RPE

Description .....White crystals
Identification ..... Positive
Specific optical rotation... +66.3 ÷ +66.8 °
Acidity .....≤0.0008 meq/g
Loss on drying .....≤300 ppm
Chloride.....≤50 ppm
Water-insoluble matter .....≤50 ppm
Heavy metals (Pb).....≤5 ppm
Residue on ignition.....≤100 ppm
Sulphat + sulphit (SO4) .....≤50 ppm
Inver.sugar (Glucose) .....≤500 ppm
Fe .....≤5 ppm

Code	Size	Packaging	Notes
477186	100 g	Plastic bottle	
477187	1 kg	Plastic bottle	
477182	5 kg	Plastic jar	
477183	25 kg	Plastic bucket	

D(+)-Sucrose > ERBApharm - According to pharmacopoeia : BP-FU-NF-Ph.Eur.-Ph.Franc.

ERBApharm

Description ..... White crystalline powder
Identification ..... Positive
Appearance of solution .....Conform Ph.Eur.
Dextrine.....Conform Ph.Eur.
Reducing sugar .....Conform Ph.Eur.
Conductivity .....Conform Ph.Eur.
Colore (A)..... ≤ 45 Ph.Eur.
Specific optical rotation... +66.3 ÷ +67.0 °
Loss on drying ..... ≤ 0.1 %
Sulphite .....≤ 10 ppm
Pb .....≤ 0.5 ppm

Code	Size	Packaging	Notes
365157	1 kg	Plastic bottle	
365158	5 kg	Plastic jar	
365152	25 kg	Plastic bucket	

Sudan black B

Nero Sudan B • Noir Soudan B • Negro Sudan B

Synonym: *Ceres black BN*

$C_{29}H_{24}N_6$
Molecular Weight: 456,55
CAS: 4197-25-5
EEC-N: 224-087-1

Sudan black B > RS - For microscopy - C.I. 26150

RS

Description .....Black powder
Identification ..... Positive

Code	Size	Packaging	Notes
464241	25 g	Glass bottle	

Dye for histology

Sudan III

Sudan III • Soudan III • Sudan III

Synonym: *1-[4-(Phenylazo)phenylazo]-2-naphthol*

$C_{22}H_{16}N_4O$
Molecular Weight: 352,4
CAS: 85-86-9
EEC-N: 201-638-4

Sudan III > RS - For microscopy - C.I. 26100

RS

Description .....Red brick powder
Identification ..... Positive

Code	Size	Packaging	Notes
485902	25 g	Glass bottle	

Dye for histology

Sudan III hydroalcoholic saturated solution

Sudan III soluzione idroalcolica satura • Soudan III solution hydroalcoolique • Sudan III solución hidroalcohólica

Synonym:
1-[4-(Phenylazo)phenylazo]-2-naphthol

$C_{22}H_{16}N_4O$
Molecular Weight: 352,4
CAS: 85-86-9

Classification transport
ONU: 1170
Transport Hazard class: 3
Packing group II

Danger
H225-H319-H336
P210-P241-P264-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

Sudan III hydroalcoholic saturated solution > RS - For the colouring of neutral fats

RS

Description ..... Red clear liquid
Identification ..... Positive
Density at 20° C ..... 0.855 ÷ 0.861

Code	Size	Packaging	Notes
E485952	250 ml	Glass bottle	

Sudan yellow

Giallo Sudan • Jaune Soudan • Amarillo Sudán

Synonym:
Sudan I
1-Phenylazo-2-naphthol

$C_{16}H_{12}N_2O$
Molecular Weight: 248,28
CAS: 842-07-9
EEC-N: 212-668-2

Warning
H317-H341-H351-H413
P273-P261-P280g-P308+P313-P333+P313-P302+P352a

Sudan yellow > RPE - For analysis - C.I. 12055

RPE

Description ..... Red-orange crystalline powder
Identification ..... Positive

Code	Size	Packaging	Notes
453581	10 g	Glass bottle	
453582	25 g	Glass bottle	

Sulfamic acid

Acido solfammico • Acide sulfamique • Acido sulfamico

Synonym:
Amidosulfonic acid

NH_2SO_3H
Molecular Weight: 97,09
CAS: 5329-14-6
EEC-N: 226-218-8

Classification transport
ONU: 2967
Transport Hazard class: 8
Packing group III

Warning
H315-H319-H412
P264-P273-P280g-P305+P351+P338-P332+P313-P337+P313

Sulfamic acid > RPE - For analysis - ACS

RPE

Description ..... White crystals
Identification ..... Positive
Chloride ..... ≤ 10 ppm
Water-insoluble matter ..... ≤ 100 ppm
Heavy metals (Pb) ..... ≤ 10 ppm
Residue on ignition ..... ≤ 100 ppm
Sulphate ..... ≤ 0.05 %
Fe ..... ≤ 5 ppm
Assay (acidimetric) ..... 99.3 ÷ 100.3 %

Code	Size	Packaging	Notes
410105	250 g	Plastic bottle	
410106	500 g	Plastic bottle	
410104	25 kg	Plastic bucket	

Sulfamic acid > RE - Pure

RE

Description ..... White crystals
Identification ..... Positive
Heavy metals (Pb) ..... ≤20 ppm
Sulphate ..... ≤0.3 %
Fe ..... ≤20 ppm
Assay ..... ≥99.5 %

Code	Size	Packaging	Notes
306507	1 kg	Plastic bottle	
306508	5 kg	Plastic jar	
306503	25 kg	Plastic bucket	

Sulfanilamide
Solfanilammide • Sulfanilamide • Sulfanilamida

Synonym:
p-Aminobenzenesulfonamide

$C_6H_8O_2N_2S$
Molecular Weight: 172.21
CAS: 63-74-1
EEC-N: 200-563-4

Sulfanilamide > RS - For microanalysis
RS

Description ..... White crystalline powder
Identification ..... Positive
Melting point ..... 164 ÷ 167 ° C
Loss on drying ..... ≤ 0.5 %
Assay ..... ≥ 97.5 % (s.s.)

Code	Size	Packaging	Notes
485961	2 g	Glass bottle	

Sulfanilamide > RPE - For analysis
RPE

Code	Size	Packaging	Notes
485971	100 g	Plastic bottle	

Sulfanilic acid
Acido solfanilico • Acide sulfanilique • Acido sulfanílico

Synonym:
4-Aminobenzenesulfonic acid
Aniline-4-sulfonic acid

$4\text{-}NH_2C_6H4SO_3H$
Molecular Weight: 173,19
CAS: 121-57-3
EEC-N: 204-482-5

Warning
H315-H319-H317
P264-P261-P280g-P280i-P305+P351+P338-P337+P313

Sulfanilic acid > RS - For analysis according to Ph. Eur. Chap. 4.2.1
RS

Code	Size	Packaging	Notes
612000700	100 g	Plastic bottle	Ref Ph.Eur 2000700

Sulfanilic acid > RPE - For analysis - ACS - Reag. Ph.Eur.
RPE

Description ..... White powder
Identification ..... Positive
Sodium carbonate 5% ins ..... ≤200 ppm
Residue on ignition ..... ≤100 ppm
Chloride ..... ≤20 ppm
Nitrite ..... ≤0.5 ppm
Sulphate ..... ≤100 ppm
Assay (acidimetric) ..... 98.0 ÷ 102.0 %

Code	Size	Packaging	Notes
410154	100 g	Plastic bottle	
410156	500 g	Plastic bottle	

Sulfate standard solution
Solfati standard soluzione • Sulfate solution standard • Solfato, solución patrón

Sulfate standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2
RS

Code	Size	Packaging	Notes
615002801	100 ml	Plastic bottle	A 10 ppm solution R1 : to dilute according to Ref Ph.Eur 5002801
615002802	100 ml	Plastic bottle	A 100 ppm solution : to dilute according to Ref Ph.Eur 5002802
615002809	100 ml	Plastic bottle	A 10 ppm solution : to dilute according to Ref Ph.Eur 5002800

Sulfate standard solution > RS - Standard solution for ion chromatography
RS

Code	Size	Packaging	Notes
503351	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503353	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Sulfite standard solution
Solfito standard soluzione • Sulfite standard solution • Sulfito, solución patrón

Sulfite standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2 — RS

Code	Size	Packaging	Notes
615002900	100 ml	Plastic bottle	A 1,5 ppm solution Ref Ph.Eur 5002900

Sulfolane
Sulfolano • Sulfolane • Sulfolano

Synonym: *Tetrahydrothiophene 1,1-dioxide*

$CH_2(CH_2)_3.SO_2$
Molecular Weight: 120,17
CAS: 126-33-0
EEC-N: 204-783-1

Warning
H302
P264-P270-P330-P301+P312a-P501a

Sulfolane > RS - Anhydrous - For analysis — RS

Water content (K.F.) ..... ≤ 200 mg/Kg Assay (GC) ..... ≥ 98.5 % Colourless to light yellow appearance ..... Conform

Code	Size	Packaging	Notes
P932SP16	1 l	Glass bottle	

Sulfomolybdic reagent
Reattivo solfomolibdico • Réactif sulfomolybdique • Reactivo sulfomolibdico

Classification transport
ONU: 1760
Transport Hazard class: 8
Packing group II

Danger
H314-H318
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Sulfomolybdic reagent > RS - For analysis according to Ph. Eur. Chap. 4.1.1 — RS

Code	Size	Packaging	Notes
611086500	100 ml	Plastic bottle	Sulfomolybdic reagent R3 Ref Ph.Eur 1086500

Sulfosalicylic acid
Acido solfosalicilico • Acide sulfosalycilique • Acido sulfosalicílico

Synonym: *2-Hydroxy-5-sulfobenzoic acid*

$HO.C_6H_3(COOH)SO_3H.2H_2O$
Molecular Weight: 254,2
CAS: 5965-83-3
EEC-N: 202-555-6

Warning
H315-H319
P264-P280-P305+P351+P338-P332+P313-P337+P313-P302+P352a

Sulfosalicylic acid > RPE - For analysis - ACS — RPE

Description ..... Solido bianco
Identification ..... Positive
Salicilic acid ..... ≤ 0.04 %
Chloride ..... ≤ 10 ppm
Water-insoluble matter ..... ≤ 0.02 %
Heavy metals (Pb) ..... ≤ 20 ppm
Residue on ignition ..... ≤ 0.1 %
Sulphate ..... ≤ 0.02 %
Fe ..... ≤ 10 ppm
Assay (acidimetric) ..... 99.0 ÷ 101.0 %

Code	Size	Packaging	Notes
410894	100 g	Glass bottle	
410896	500 g	Plastic bottle	

Sulfur standard solution
Zolfo standard soluzione • Soufre solution standard • Azufre, solución patrón

Sulfur standard solution > RS - Standard solution for ICP-MS — RS

Code	Size	Packaging	Notes
505822	100 ml	Plastic bottle	conc. 10 ppm Matrix : Water
505825	100 ml	Plastic bottle	conc. 100 ppm Matrix : Water
505823	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Sulfur standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
504291	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
504295	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Water
504293	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
504297	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Water

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Sulfur sublimed and washed

Zolfo sublimato lavato ventilato • Soufre sublimé lavé ventilé • Azufre sublimado lavado

S
Molecular Weight: 32,06
CAS: 7704-34-9
EEC-N: 231-722-6

Classification transport
ONU: 1350
Transport Hazard class: 4.1
Packing group III

Warning
H315
P264-P280g-P332+P313-P302+P352a-P321-P362+P364

Sulfur sublimed and washed > RE - Pure

RE

Description ..... Yellow powder
Identification ..... Positive
Residue on ignition ..... ≤ 0.1 %
Acidity (H2SO4) ..... ≤ 0.1 %
Assay (gravimetric) ..... ≥ 99.5 %

Code	Size	Packaging	Notes
378807	1 kg	Plastic bottle	
378809	5 kg	Plastic jar	
378802	25 kg	Plastic bucket	

Sulfuric acid 98%

Acido solforico 98% • Acide sulfurique 98% • Acido sulfúrico 98%

H_2SO_4
Molecular Weight: 98,08
CAS: 7664-93-9
EEC-N: 231-639-5

Classification transport
ONU: 1830
Transport Hazard class: 8
Packing group II

Danger
H314
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Sulfuric acid 98% > RS - For microanalysis

RS

Description ..... Clear liquid
Identification ..... Positive
Density at 20° C ..... ~ 1.835
Assay ..... 95 ÷ 98 %

Code	Size	Packaging	Notes
410421	1 l	Glass bottle	

Sulfuric acid 98% > RPE - For nitrogen dosing

RPE

Description ..... Clear colourless liquid
Density at 20°C ..... ~ 1.84
Total nitrogen (N) ..... ≤ 2 ppm
Assay (acidimetric) ..... 95 - 98 %

Code	Size	Packaging	Notes
502641	2.5 l	Glass bottle	

Content is guaranteed for standardized volumes at 20 °C

Sulfuric acid 96%

Acido solforico 96% • Acide sulfurique 96% • Acido sulfurico 96%

H_2SO_4
Molecular Weight: 98,08
CAS: 7664-93-9
EEC-N: 231-639-5

Classification transport
ONU: 1830
Transport Hazard class: 8
Packing group II

Danger
H314
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Sulfuric acid 96% > RS - VLSI For electronic use

RS

Code	Size	Packaging	Notes
527631	1 l	Plastic bottle	
527630	2.5 l	Glass bottle	

For specifications, contact our customer service for a certificate of analysis

Sulfuric acid 96% > RS - RSE - For electronic use

RS

Description	Clear liquid	Ag	≤0.02 ppm	Cu	≤0.01 ppm	Pt	≤0.05 ppm
Colour (APHA)	≤10	Al	≤0.05 ppm	Fe	≤0.1 ppm	Sb	≤0.01 ppm
Identification	Positive	As	≤0.005 ppm	Ga	≤0.02 ppm	Se	≤0.5 ppm
Density at 20° C	1.834 ÷ 1.836	Au	≤0.05 ppm	In	≤0.02 ppm	Sn	≤0.02 ppm
Assay (acidimetric)	95.0 ÷ 97.0 %	B	≤0.01 ppm	K	≤0.1 ppm	Sr	≤0.02 ppm
Ammonium	≤0.5 ppm	Ba	≤0.05 ppm	Li	≤0.02 ppm	Ti	≤0.05 ppm
Chloride	≤0.1 ppm	Be	≤0.02 ppm	Mg	≤0.1 ppm	Tl	≤0.05 ppm
Heavy metals (Pb)	≤0.4 ppm	Bi	≤0.02 ppm	Mn	≤0.01 ppm	V	≤0.05 ppm
Nitrate	≤0.1 ppm	Ca	≤0.2 ppm	Mo	≤0.01 ppm	Zn	≤0.02 ppm
Phosphate	≤0.5 ppm	Cd	≤0.005 ppm	Na	≤0.5 ppm	Zr	≤0.05 ppm
Residue on ignition	≤3 ppm	Co	≤0.01 ppm	Ni	≤0.01 ppm		
Subst. reducing KMnO4	≤2 ppm	Cr	≤0.01 ppm	Pb	≤0.02 ppm		

Code	Size	Packaging	Notes
410374	1 l	Glass bottle	
410371	2.5 l	Glass bottle	

Sulfuric acid 96% > RS - MOS For electronic use

RS

Description	Clear liquid	Ag	≤0.02 ppm	Cu	≤0.01 ppm	Pt	≤0.05 ppm
Colour (APHA)	≤10	Al	≤0.05 ppm	Fe	≤0.1 ppm	Sb	≤0.01 ppm
Identification	Positive	As	≤0.005 ppm	Ga	≤0.02 ppm	Se	≤0.5 ppm
Density at 20° C	1.834 ÷ 1.836	Au	≤0.05 ppm	In	≤0.02 ppm	Sn	≤0.02 ppm
Assay (acidimetric)	95.0 ÷ 97.0 %	B	≤0.01 ppm	K	≤0.1 ppm	Sr	≤0.02 ppm
Ammonium	≤0.5 ppm	Ba	≤0.05 ppm	Li	≤0.02 ppm	Ti	≤0.05 ppm
Chloride	≤0.1 ppm	Be	≤0.02 ppm	Mg	≤0.1 ppm	Tl	≤0.05 ppm
Heavy metals (Pb)	≤0.4 ppm	Bi	≤0.02 ppm	Mn	≤0.01 ppm	V	≤0.05 ppm
Nitrate	≤0.1 ppm	Ca	≤0.2 ppm	Mo	≤0.01 ppm	Zn	≤0.02 ppm
Phosphate	≤0.5 ppm	Cd	≤0.005 ppm	Na	≤0.5 ppm	Zr	≤0.05 ppm
Residue on ignition	≤3 ppm	Co	≤0.01 ppm	Ni	≤0.01 ppm		
Subst. reducing KMnO4	≤2 ppm	Cr	≤0.01 ppm	Pb	≤0.02 ppm		

Code	Size	Packaging	Notes
410382	1 l	Glass bottle	
410381	2.5 l	Glass bottle	

Sulfuric acid 96% > RS - For enviromental analysis - ACS - Reag. Ph.Eur. - Reag. USP

RS

Description	Clear oily liquid	Subst. reducing KMnO4	≤2 ppm	Cu	≤0.01 ppm	Se	≤3 ppm
Colour (APHA)	≤10	Ag	≤0.02 ppm	Fe	≤0.1 ppm	Sr	≤0.02 ppm
Colour of 2N solution(APHA)	≤10	Al	≤0.05 ppm	Hg	≤0.005 ppm	Ti	≤0.05 ppm
Identification	Positive	As	≤0.005 ppm	K	≤0.1 ppm	Tl	≤0.05 ppm
Density at 20° C	1.834 ÷ 1.836	Ba	≤0.1 ppm	Li	≤0.02 ppm	V	≤0.05 ppm
Ammonium	≤1 ppm	Be	≤0.02 ppm	Mg	≤0.1 ppm	Zn	≤0.05 ppm
Chloride	≤0.1 ppm	Bi	≤0.02 ppm	Mn	≤0.01 ppm	Zr	≤0.05 ppm
Phosphate	≤0.5 ppm	Ca	≤0.2 ppm	Mo	≤0.01 ppm	Assay (acidimetric)	95.0 ÷ 97.0 %
Heavy metals (Pb)	≤0.8 ppm	Cd	≤0.005 ppm	Na	≤0.5 ppm		
Nitrate	≤0.2 ppm	Co	≤0.01 ppm	Ni	≤0.02 ppm		
Residue on ignition	≤4 ppm	Cr	≤0.05 ppm	Pb	≤0.02 ppm		

Code	Size	Packaging	Notes
410261	1 l	Glass bottle	

Low content in Hg

Sulfuric acid 96% > RPE - For analysis - ISO

RPE

Description	Clear oily liquid	Heavy metals (Pb)	≤0.8 ppm	Cu	≤0.01 ppm	Pb	≤0.02 ppm
Colour (APHA)	≤10	Nitrate	≤0.2 ppm	Fe	≤0.1 ppm	Se	≤3 ppm
Colour of 2N solution(APHA)	≤10	Residue on ignition	≤4 ppm	K	≤0.1 ppm	Sr	≤0.02 ppm
Identification	Positive	Subst. reducing KMnO4	≤2 ppm	Li	≤0.02 ppm	Zn	≤0.05 ppm
Density at 20° C	1.834 ÷ 1.836	As	≤0.01 ppm	Mg	≤0.2 ppm	Assay (acidimetric)	95 ÷ 97 %
Ammonium	≤1 ppm	Ca	≤0.2 ppm	Na	≤0.5 ppm		
Chloride	≤0.1 ppm	Cd	≤0.005 ppm	Ni	≤0.05 ppm		

Code	Size	Packaging	Notes
410301	1 l	Glass bottle	
410303	1 l	Glass bottle PVC coated	
524540	1 l	Plastic bottle	
410306	2.5 l	Glass bottle	
524541	2.5 l	Plastic bottle	
524543	25 l	Plastic drum	
410307	30 kg	Plastic drum	
410302	50 kg	Plastic drum	

Content is guaranteed for standardized volumes at 20 °C

Sulfuric acid 96% > ERBApharm - According to pharmacopoeia : BP-NF-Ph.Eur.

ERBApharm

Description	Clear colourless liquid	Nitrate	Conform Ph.Eur.	Chloride	≤ 50 ppm	Fe	≤ 25 ppm
Identification	Positive	Density at 20° C	~ 1.84	Heavy metals (Pb)	≤ 5 ppm	Assay (acidimetric)	95.0 ÷ 98.0 %
Appearance of solution	Conform Ph.Eur.	Sulphated ash	≤ 50 ppm	As	≤ 1 ppm	Subst. reducing KMnO4	Conform USP-NF

Code	Size	Packaging	Notes
306651	1 l	Glass bottle	
306657	2.5 l	Glass bottle	
306653	50 kg	Plastic drum	

Sulfuric acid 96% (66°Be)

Acido solforico 96% (66°Bé) • Acide sulfurique 96% (66°Bé) • Acido sulfúrico 96% (66°Bé)

H_2SO_4
Molecular Weight: 98,08
CAS: 7664-93-9
EEC-N: 231-639-5

Classification transport
ONU: 1830
Transport Hazard class: 8
Packing group II

Danger
H314
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Sulfuric acid 96% (66°Be) > RE - Pure

RE

Description	Clear or opaline colourless liquid	Density at 20° C	1.830 ÷ 1.836	Cu	≤ 0.02 ppm	Pb	≤ 0.03 ppm
Identification	Positive	Chloride	≤500 ppm	Assay (acidimetric)	≥96 %	Zn	≤ 0.25 ppm

Code	Size	Packaging	Notes
306751	2.5 l	Glass bottle	
306755	25 kg	Plastic bucket	
306752	50 kg	Plastic drum	

Sulfuric acid 95 - 97 %

Acido solforico 95 - 97 % • Acide sulfurique 95 - 97% • Acido sulfúrico 95 - 97 %

H_2SO_4
Molecular Weight: 98,08
CAS: 7664-93-9
EEC-N: 231-639-5

Classification transport
ONU: 1830
Transport Hazard class: 8
Packing group II

Danger
H314
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Sulfuric acid 95 - 97 % > RPE - For nitrogen dosing - Reag.Ph.Eur.

RPE

Description	Clear oily liquid	Ammonium	≤ 1 ppm	Residue on ignition	≤ 4 ppm	Subs. reducing KMnO4	Pass test
Identification	Positive	Chloride	≤ 0.1 ppm	As	≤ 0.01 ppm	Test nitrate (Ph.Eur.)	Pass test
Colour	≤ 10 APHA	Heavy metals (Pb)	≤ 0.8 ppm	Fe	≤ 0.1 ppm	Assay (acidimetric)	95.0 ÷ 97.0 %
Density at 20°C	1.834 ÷ 1.836	Nitrate	≤ 0.2 ppm	Total nitrogen	≤ 2 ppm		

Code	Size	Packaging	Notes
502302	1 l	Glass bottle	

Sulfuric acid 93-98%

Acido solforico 93-98% • Acide sulfurique 93-98% • Acido sulfúrico 93-98%

H_2SO_4
Molecular Weight: 98,08
CAS: 7664-93-9
EEC-N: 231-639-5

Classification transport
ONU: 1830
Transport Hazard class: 8
Packing group II

Danger
H314
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Sulfuric acid 93-98% > RS - Ultrapure - For trace analysis at ppt level

RS

Description ..... Clear colourless liquid
Identification ..... Positive
Ag ..... ≤ 50 ppt
Al ..... ≤ 50 ppt
As ..... ≤ 500 ppt
Ba ..... ≤ 10 ppt
Be ..... ≤ 10 ppt
Bi ..... ≤ 10 ppt
Ca ..... ≤ 50 ppt
Cd ..... ≤ 10 ppt
Co ..... ≤ 10 ppt
Cr ..... ≤ 10 ppt
Cu ..... ≤ 10 ppt
Fe ..... ≤ 50 ppt
Hg ..... ≤ 100 ppt
K ..... ≤ 50 ppt
Mg ..... ≤ 50 ppt
Mn ..... ≤ 10 ppt
Mo ..... ≤ 10 ppt
Na ..... ≤ 50 ppt
Ni ..... ≤ 50 ppt
Pb ..... ≤ 10 ppt
Sn ..... ≤ 50 ppt
Sr ..... ≤ 10 ppt
Ti ..... ≤ 50 ppt
V ..... ≤ 10 ppt
Zn ..... ≤ 50 ppt
Assay (acidimetric) ..... 93 ÷ 98 %
Th ..... ≤ 10 ppt
Sb ..... ≤ 50 ppt
Ce ..... ≤ 10 ppt
Cs ..... ≤ 10 ppt
Dy ..... ≤ 10 ppt
Er ..... ≤ 10 ppt
Eu ..... ≤ 10 ppt
Gd ..... ≤ 10 ppt
Ga ..... ≤ 10 ppt
Ge ..... ≤ 100 ppt
Hf ..... ≤ 10 ppt
Ho ..... ≤ 10 ppt
In ..... ≤ 10 ppt
La ..... ≤ 10 ppt
Li ..... ≤ 10 ppt
Lu ..... ≤ 10 ppt
Nd ..... ≤ 10 ppt
Nb ..... ≤ 10 ppt
Pr ..... ≤ 10 ppt
Rh ..... ≤ 50 ppt
Rb ..... ≤ 10 ppt
Sm ..... ≤ 10 ppt
Sc ..... ≤ 10 ppt
Se ..... ≤ 500 ppt
Te ..... ≤ 50 ppt
Tb ..... ≤ 10 ppt
Tl ..... ≤ 10 ppt
Tm ..... ≤ 10 ppt
W ..... ≤ 10 ppt
U ..... ≤ 10 ppt
Yb ..... ≤ 10 ppt
Y ..... ≤ 10 ppt
Zr ..... ≤ 10 ppt

Code	Size	Packaging	Notes
410351	500 ml	Plastic bottle	

Sulfuric acid 93-98% > RS - Superpure - For trace analysis at ppb level

RS

Description ..... Clear liquid
Identification ..... Positive
Ag ..... ≤ 1 ppb
Al ..... ≤ 1 ppb
As ..... ≤ 0.5 ppb
Ba ..... ≤ 0.1 ppb
Be ..... ≤ 0.1 ppb
Bi ..... ≤ 0.1 ppb
Ca ..... ≤ 1 ppb
Cd ..... ≤ 0.5 ppb
Co ..... ≤ 0.5 ppb
Cr ..... ≤ 0.5 ppb
Cu ..... ≤ 0.5 ppb
Hg ..... ≤ 0.1 ppb
K ..... ≤ 1 ppb
Li ..... ≤ 0.5 ppb
Mg ..... ≤ 1 ppb
Mn ..... ≤ 0.5 ppb
Mo ..... ≤ 0.5 ppb
Na ..... ≤ 1 ppb
Ni ..... ≤ 0.5 ppb
Pb ..... ≤ 0.1 ppb
Sb ..... ≤ 1 ppb
Se ..... ≤ 10 ppb
Sn ..... ≤ 1 ppb
Sr ..... ≤ 0.5 ppb
Ti ..... ≤ 1 ppb
V ..... ≤ 0.5 ppb
Zn ..... ≤ 1 ppb
Zr ..... ≤ 0.5 ppb
Assay (acidimetric) ..... 93 ÷ 98 %
Th ..... ≤ 0.1 ppb
Colour (APHA) ..... ≤ 10
Ce ..... ≤ 0.1 ppb
Cs ..... ≤ 0.1 ppb
Dy ..... ≤ 0.1 ppb
Er ..... ≤ 0.1 ppb
Eu ..... ≤ 0.1 ppb
Gd ..... ≤ 0.1 ppb
Ga ..... ≤ 0.1 ppb
Ge ..... ≤ 1 ppb
Hf ..... ≤ 0.1 ppb
Ho ..... ≤ 0.1 ppb
In ..... ≤ 0.1 ppb
La ..... ≤ 0.1 ppb
Lu ..... ≤ 0.1 ppb
Nd ..... ≤ 0.1 ppb
Nb ..... ≤ 0.1 ppb
Pr ..... ≤ 0.1 ppb
Rh ..... ≤ 0.5 ppb
Rb ..... ≤ 0.5 ppb
Sm ..... ≤ 0.1 ppb
Sc ..... ≤ 0.1 ppb
Te ..... ≤ 0.1 ppb
Tl ..... ≤ 0.1 ppb
Tm ..... ≤ 0.1 ppb
W ..... ≤ 0.5 ppb
U ..... ≤ 0.1 ppb
Yb ..... ≤ 0.1 ppb
Y ..... ≤ 0.1 ppb
Tb ..... ≤ 0.1 ppb
Chloride ..... ≤ 0.7 ppm
Nitrate ..... ≤ 0.2 ppm
Total phosphorus ..... ≤ 0.05 ppm
Reducing substances KMnO4 ..... ≤ 20 ppm

Code	Size	Packaging	Notes
410405	500 ml	Plastic bottle	
410406	1 l	Plastic bottle	
410407	2.5 l	Plastic bottle	

Sulfuric acid 90%

Acido solforico 90% • Acide sulfurique 90% • Acido sulfúrico 90%

H_2SO_4
Molecular Weight: 98,08
CAS: 7664-93-9
EEC-N: 231-639-5

Classification transport
ONU: 1830
Transport Hazard class: 8
Packing group II

Danger
H314
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Sulfuric acid 90% > RS - For analysis according to Gerber

RS

Description ..... Clear colourless liquid
Density at 20° C ..... 1.815 - 1.825
Assay (acidimetric) ..... 90 - 92 %

Code	Size	Packaging	Notes
410391	1 l	Glass bottle	
410394	2.5 l	Glass bottle	
E410395	50 kg	Plastic drum	

Sulfuric acid 72%
Acido solforico 72% • Acide sulfurique 72% • Acido sulfúrico 72%

H_2SO_4
Molecular Weight: 98,08
CAS: 7664-93-9

Classification transport
ONU: 1830
Transport Hazard class: 8
Packing group II

Danger
H314
P264-P260h-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Sulfuric acid 72% > RS - For agroalimentary analysis
RS

Description ..... Clear colourless liquid Colour ..... ≤ 10 APHA Density at 20°C ..... 1.629 ÷ 1.639 Assay ..... 71.50 ÷ 72.50 %

Code	Size	Packaging	Notes
502771	2.5 l	Glass bottle	

Sulfuric acid 69%
Acido solforico 69% • Acide sulfurique 69% • Acido sulfúrico 69%

H_2SO_4
Molecular Weight: 98,08
CAS: 7664-93-9

Classification transport
ONU: 1830
Transport Hazard class: 8
Packing group II

Danger
H314
P264-P260h-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Sulfuric acid 69% > RS - For milk analysis
RS

Clear,colourless solution ..... Conform Sulfuric acid content..... 68.0 - 70.0 % Density d20/4 ..... 1.587- 1.611

Code	Size	Packaging	Notes
PS0893/21	2.5 l	Glass bottle	

Sulfuric acid 50%
Acido solforico 50% • Acide sulfurique 50% • Acido sulfúrico 50%

H_2SO_4
Molecular Weight: 98,08
CAS: 7664-93-9

Classification transport
ONU: 2796
Transport Hazard class: 8
Packing group II

Danger
H314
P264-P260h-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Sulfuric acid 50% > RE - Pure
RE

Description ..... Clear colourless liquid Density at 20° C ..... 1.385 ÷ 1.405 Assay (acidimetric) ..... 49.0 ÷ 51.0 %
Identification ..... Positive Density at 20°C ..... 1.385 ÷ 1.405

Code	Size	Packaging	Notes
E306702	1 l	Bottle	
528541	5 l	Plastic tank	
E306704	35 kg	Drum	

Sulfuric acid 35% (30°Be)
Acido solforico 35% (30°Bé) • Acide sulfurique 35% (30°Be) • Acido sulfúrico 35% (30°Bé)

H_2SO_4
Molecular Weight: 98,08
CAS: 7664-93-9

Classification transport
ONU: 2796
Transport Hazard class: 8
Packing group II

Danger
H314
P264-P260h-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Sulfuric acid 35% (30°Be) > RE - Pure
RE

Description ..... Clear or opaline colourless liquid Density at 20° C ..... 1.252 - 1.260 Assay ..... 34.0 - 35.0 %

Code	Size	Packaging	Notes
307001000	30 kg	Plastic tank	

Sulfuric acid 25 %

Acido solforico 25% • Acide sulfurique 25 % • Acido sulfúrico 25 %

H_2SO_4
Molecular Weight: 98,08
CAS: 7664-93-9

Classification transport
ONU: 2796
Transport Hazard class: 8
Packing group II

Danger
H314
P264-P260h-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Sulfuric acid 25 % > RE - Pure

RE

Density d20/4 ..... 1.174 - 1.182 Sulfuric acid content..... 24.5 - 25.5 %

Code	Size	Packaging	Notes
PS0212/21	2.5 l	Glass bottle	

Sulfuric acid 20%

Acido solforico 20% • Acide sulfurique 20% • Acido sulfúrico 20%

H_2SO_4
Molecular Weight: 98,08
CAS: 7664-93-9

Classification transport
ONU: 2796
Transport Hazard class: 8
Packing group II

Danger
H314
P264-P260h-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Sulfuric acid 20% > RPE - For analysis

RPE

Description ..... Clear colourless liquid Density at 20° C ..... 1.136 - 1.158 Assay ..... 20 - 22 %

Code	Size	Packaging	Notes
410511000	1 l	Plastic bottle	
410516	20 kg	Plastic drum	

Content is guaranteed for standardized volumes at 20°C. Keep tightly

Sulfuric acid 10% v/v

Acido solforico 10% v/v • Acide sulfurique 10% v/v • Acido sulfúrico 10% V/V

H_2SO_4
Molecular Weight: 98,08
CAS: 7664-93-9

Classification transport
ONU: 2796
Transport Hazard class: 8
Packing group II

Danger
H314
P264-P260h-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Sulfuric acid 10% v/v > RPE - For analysis

RPE

Density at 20°C ..... 1.12 - 1.14

Code	Size	Packaging	Notes
502591	1 l	Bottle	

Sulfuric acid 4 mol/l (8N)

Acido solforico 4 mol/l (8N) • Acide sulfurique 4 mol/l (8N) • Acido sulfúrico 4 mol/l (8N)

H_2SO_4
Molecular Weight: 98,08
CAS: 7664-93-9

Classification transport
ONU: 2796
Transport Hazard class: 8
Packing group II

Danger
H314
P264-P260h-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Sulfuric acid 4 mol/l (8N) > RS - For environmental analysis (COD determination)

RS

Description ..... Clear colourless liquid Assay ..... 7.984 - 8.016 N

Code	Size	Packaging	Notes
526741	1 l	Bottle	

Sulfuric acid 2.5 mol/l (5N)

Acido solforico 2.5 mol/l (5N) • Acide sulfurique 2.5 mol/l (5N) • Acido sulfúrico 2.5 mol/l (5N)

H_2SO_4
Molecular Weight: 98,08
CAS: 7664-93-9

Classification transport
ONU: 2796
Transport Hazard class: 8
Packing group II

Danger
H314
P264-P260h-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Sulfuric acid 2.5 mol/l (5N) > RPE - For analysis

RPE

Assay (potentiomety) ..... 4.995 - 5.005 N

Code	Size	Packaging	Notes
P3240015	1 l	Plastic bottle	

Sulfuric acid 1 mol/l (2N)

Acido solforico 1 mol/l (2N) • Acide sulfurique 1 mol/l (2N) • Acido sulfúrico 1 mol/l (2N)

H_2SO_4
Molecular Weight: 98,08
CAS: 7664-93-9

Classification transport
ONU: 2796
Transport Hazard class: 8
Packing group II

Danger
H314
P264-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338-P337+P313

Sulfuric acid 1 mol/l (2N) > RPE - For analysis

RPE

Description ..... Clear colourless liquid Assay (potentiometry) ..... 1.998 - 2.002 N NIST 723 ..... e

Code	Size	Packaging	Notes
410547000	1 l	Plastic bottle	
410548000	10 l	Plastic tank	

98.06 g of H2SO4. Volumetric solution ready-to-use : 2N. Traceable to NIST

Sulfuric acid 0.5 mol/l (1N)

Acido solforico 0.5 mol/l (1N) • Acide sulfurique 0,5 mol/l (1N) • Acido sulfúrico 0.5 mol/l (1N)

H_2SO_4
Molecular Weight: 98,08
CAS: 7664-93-9

HEU210

Sulfuric acid 0.5 mol/l (1N) > RS - For analysis according to Ph. Eur. Chap. 4.2.2

RS

Code	Size	Packaging	Notes
613007800	1 l	Plastic bottle	Ref Ph.Eur 3007800

Sulfuric acid 0.5 mol/l (1N) > RPE - For analysis

RPE

Description ..... Clear colourless liquid Assay (potentiometry) ..... 0.999 - 1.001 N NIST 723 ..... e

Code	Size	Packaging	Notes
410577000	1 l	Plastic bottle	
410572000	5 l	Kubidos	
410575000	5 l	Plastic tank	
410571000	10 l	Kubidos	

49.03 g of H2SO4. Volumetric solution ready-to-use : 1N. Traceable to NIST

Sulfuric acid 0.5 mol/l (1N) > RPE - NORMEX - For analysis

RPE

Description ..... Clear colourless liquid Identification ..... Positive Titration factor ..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
410591		Plastic ampoule	Volume : 165 ml

49,04 g of H2SO4 . Volumetric concentrated solution to prepare 1 L of solution 1 N

Sulfuric acid 0.33 mol/l (2N/3)

Acido solforico 0.33 mol/l (2N/3) • Acide sulfurique 0.33 mol/l (2N/3) • Acido sulfúrico 0.33 mol/l (2N/3)

H_2SO_4 HEU210
Molecular Weight: 98,08
CAS: 7664-93-9

Sulfuric acid 0.33 mol/l (2N/3) > RPE - For analysis

RPE

Description ..... Clear colourless liquid Assay (potentiometry) ..... 0.6653 - 0.6680 N

Code	Size	Packaging	Notes
410634	1 l	Plastic bottle	

32,363 g of H2SO4. Volumetric solution ready-to-use: 2 N/3. Content is guaranteed for standardized volumes at 20 °C

Sulfuric acid 0.26 mol/l (0.52N)

Acido solforico 0.26 mol/l (0.52N) • Acide sulfurique 0.26 mol/l (0.52N) • Acido sulfúrico 0.26 mol/l (0.52N)

H_2SO_4 HEU210
Molecular Weight: 98,08
CAS: 7664-93-9

Sulfuric acid 0.26 mol/l (0.52N) > RS - For agroalimentary analysis

RS

Description ..... Clear colourless liquid Aspect ..... Conform Assay ..... 0.515 ÷ 0.525 N

Code	Size	Packaging	Notes
502202	5 l	Plastic tank	

Sulfuric acid 0.25 mol/l (0.5N)

Acido solforico 0.25 mol/l (0.5N) • Acide sulfurique 0.25 mol/l (0.5N) • Acido sulfúrico 0.25 mol/l (0.5N)

H_2SO_4 HEU210
Molecular Weight: 98,08
CAS: 7664-93-9

Sulfuric acid 0.25 mol/l (0.5N) > RPE - For analysis

RPE

Description ..... Clear colourless liquid Assay (potentiometry) ..... 0.4995 - 0.5005 N NIST 723 ..... e
Identification ..... Positive Titration factor ..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
410667000	1 l	Plastic bottle	
410663000	5 l	Kubidos	
410662000	10 l	Kubidos	

24.52 g of H2SO4. Volumetric solution ready-to-use : 0.5N. Traceable to NIST

Sulfuric acid 0.25 mol/l (0.5N) > RPE - NORMEX - For analysis

RPE

Description ..... Clear colourless liquid Identification ..... Positive Titration factor ..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
410681		Plastic ampoule	Volume : 55 ml

24,52 g H2SO4. Volumetric concentrated solution to prepare 1 L of solution 0,5 N

Sulfuric acid 0.166 mol/l (0.333N)

Acido solforico 0.166 mol/l (0.333N) • Acide sulfurique 0.166 mol/l (0.333N) • Acido sulfúrico 0.166 mol/l (0.333N)

H_2SO_4 HEU210
Molecular Weight: 98,08
CAS: 7664-93-9

Sulfuric acid 0.166 mol/l (0.333N) > RPE - For analysis

RPE

Assay (potentiomety) ..... 0.3331 - 0.3337 N

Code	Size	Packaging	Notes
PS0217/15	1 l	Bottle	

Sulfuric acid 0.13 mol/l (0.26N)

Acido solforico 0.13 mol/l (0.26N) • Acide sulfurique 0.13 mol/l (0.26N) • Acido sulfúrico 0.13 mol/l (0.26N)

H_2SO_4 HEU210
Molecular Weight: 98,08
CAS: 7664-93-9

Sulfuric acid 0.13 mol/l (0.26N) > RS - For agroalimentary analysis

RS

Description ..... Clear colourless liquid Assay ..... 0.255 ÷ 0.265 N

Code	Size	Packaging	Notes
502651	5 l	Plastic tank	

Content is guaranteed for standardized volumes at 20 °C. Keep tightly closed

Sulfuric acid 0.125 mol/l (0.25N)

Acido solforico 0.125 mol/l (0.25N) • Acide sulfurique 0.125 mol/l (0.25N) • Acido sulfúrico 0.125 mol/l (0.25N)

H_2SO_4 HEU210
Molecular Weight: 98,08
CAS: 7664-93-9

Sulfuric acid 0.125 mol/l (0.25N) > RPE - For analysis

RPE

Assay (potentiomety) ..... 0.2495 - 0.2505 N

Code	Size	Packaging	Notes
PS0445/22	5 l	Plastic tank	
PS0445/41	10 l	Plastic tank	

Sulfuric acid 0.1 mol/l (0.2N)

Acido solforico 0.1 mol/l (0.2N) • Acide sulfurique 0.1 mol/l (0.2N) • Acido sulfúrico 0.1 mol/l (0.2N)

H_2SO_4 HEU210
Molecular Weight: 98,08
CAS: 7664-93-9

Sulfuric acid 0.1 mol/l (0.2N) > RS - For agroalimentary analysis

RS

Description ..... Clear liquid Aspect..... Conform Assay ..... 0.195 ÷ 0.205 N

Code	Size	Packaging	Notes
502100000	1 l	Plastic bottle	

Sulfuric acid 0.05 mol/l (0.1N)

Acido solforico 0.05 mol/l (0.1N) • Acide sulfurique 0.05 mol/l (0.1N) • Acido sulfúrico 0.05 mol/l (0.1N)

H_2SO_4 HEU210
Molecular Weight: 98,08
CAS: 7664-93-9

Sulfuric acid 0.05 mol/l (0.1N) > RS - For analysis according to Ph. Eur. Chap. 4.2.2

RS

Code	Size	Packaging	Notes
613008001	500 ml	Plastic bottle	Ref Ph.Eur 3008000
613008000	1 l	Plastic bottle	Ref Ph.Eur 3008000

Sulfuric acid 0.05 mol/l (0.1N) > RPE - For analysis

RPE

Description ..... Clear colourless liquid Assay (potentiometry) ..... 0.0999 - 0.1001 N NIST 723 ..... e

Code	Size	Packaging	Notes
410717000	1 l	Plastic bottle	
410712000	5 l	Kubidos	
410711000	10 l	Kubidos	
410714000	20 l	Plastic tank	
410713000	25 l	Plastic tank	

4.904 g of H2SO4. Volumetric solution ready-to-use : 0.1 N. Traceable to NIST

Sulfuric acid 0.05 mol/l (0.1N) > RPE - NORMEX - For analysis

RPE

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
410731		Plastic ampoule	Volume : 55 ml

4,904 g of H2SO4. Volumetric concentrated solution to prepare 1 L of solution 0,1 N

Sulfuric acid 0.025 mol/l (0.05N)

Acido solforico 0.025 mol/l (0.05N) • Acide sulfurique 0.025 mol/l (0.05N) • Acido sulfúrico 0.025 mol/l (0.05N)

H_2SO_4 HEU210
Molecular Weight: 98,08
CAS: 7664-93-9

Sulfuric acid 0.025 mol/l (0.05N) > RPE - For analysis

RPE

Assay (potentiomety) ..... 0.0499 - 0.0501 N

Code	Size	Packaging	Notes
PS0016/96	10 l	Kubidos	

Sulfuric acid 0.02 mol/l (0.04N)

Acido solforico 0.02 mol/l (0.04N) • Acide sulfurique 0.02 mol/l (0.04N) • Acido sulfúrico 0.02 mol/l (0.04N)

H_2SO_4 HEU210
Molecular Weight: 98,08
CAS: 7664-93-9

Sulfuric acid 0.02 mol/l (0.04N) > RPE - For analysis

RPE

Assay (potentiomety) ..... 0.03992 - 0.04008 N

Code	Size	Packaging	Notes
PS0219/15	1 l	Bottle	
PS0219/95	5 l	Kubidos	
PS0219/96	10 l	Kubidos	

Sulfuric acid 0.01 mol/l (0.02N)

Acido solforico 0.01 mol/l (0.02N) • Acide sulfurique 0.01 mol/l (0.02N) • Acido sulfúrico 0.01 mol/l (0.02N)

H_2SO_4 HEU210
Molecular Weight: 98,08
CAS: 7664-93-9

Sulfuric acid 0.01 mol/l (0.02N) > RPE - For analysis

RPE

Assay (potentiomety) ..... 0.01996 - 0.02004 N

Code	Size	Packaging	Notes
PS0047/15	1 l	Bottle	
PS0047/95	5 l	Kubidos	
PS0047/96	10 l	Kubidos	

Sulfuric acid 0.005 mol/l (0.01N)

Acido solforico 0.005 mol/l (0.01N) • Acide sulfurique 0.005 mol/l (0.01N) • Acido sulfúrico 0.005 mol/l (0.01N)

H_2SO_4 HEU210
Molecular Weight: 98,08
CAS: 7664-93-9

Sulfuric acid 0.005 mol/l (0.01N) > RPE - For analysis

RPE

Assay (potentiomety) ..... 0.00998 - 0.01002 N

Code	Size	Packaging	Notes
PS0026/95	5 l	Kubidos	

Sulfuric acid 0.005 mol/l (0.01N) > RPE - NORMEX - For analysis

RPE

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
410791		Plastic ampoule	Volume : 55 ml

0,490 g of H2SO4. Volumetric concentrated solution to prepare 1 L of solution 0,01 N

Sulfuric acid 0.0025 mol/l (0.005N)

Acido solforico 0.0025 mol/l (0.005N) • Acide sulfurique 0.0025 mol/l (0.005N) • Acido sulfúrico 0.0025 mol/l (0.005N)

H_2SO_4
Molecular Weight: 98.08
CAS: 7664-93-9

Sulfuric acid 0.0025 mol/l (0.005N) > RS - For analysis

RS

Assay (potentiometry) ..... 0.00495 - 0.00505 N

Code	Size	Packaging	Notes
424111	10 l	Kubidos	

Content is guaranteed for standardized volumes at 20 °C

Sulfuric acid 0.0025 mol/l (0.005N) > RS - For analysis according to Ph. Eur.Chapter 2.2.25

RS

Code	Size	Packaging	Notes
506401	100 ml	Glass bottle	Spectrophotometry Absorbance/Transmission Blank

Sulfuric acid with 10 g/L Ag2SO4

Argento solfato 10 g/L in acido solforico • Acide sulfurique à 10g/L Ag2SO4 • Acido sulfúrico con 10 g/L de Ag2SO4

H_2SO_4
Molecular Weight: 98,08
CAS: 7664-93-9

Classification transport
ONU: 1830
Transport Hazard class: 8
Packing group II

Danger
H314-H318
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Sulfuric acid with 10 g/L Ag2SO4 > RS - For environmental analysis (COD determination)

RS

Assay ..... 9.0 ÷ 11.0 g/l

Code	Size	Packaging	Notes
526605	1 l	Glass bottle	
526606	2.5 l	Glass bottle	

According to NF T90101 of 02/2001

Sulfuric acid with 6.6 g/l Ag2SO4

Argento solfato 6.6 g/l in acido solforico • Acide sulfurique 6.6 g/l Ag2SO4 • Acido sulfúrico 6.6 g/l Ag2SO4

H_2SO_4
Molecular Weight: 98,08
CAS: 7664-93-9

Classification transport
ONU: 1830
Transport Hazard class: 8
Packing group II

Danger
H314-H318
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Sulfuric acid with 6.6 g/l Ag2SO4 > RS - For environmental analysis (COD determination)

RS

Assay ..... 6.0 ÷ 7.2 g/l

Code	Size	Packaging	Notes
526602	2.5 l	Glass bottle	

According to NF T90101 of 02/2001

Sulfuric acid d=1,820

Acido solforico d=1,820 • Acide sulfurique d=1,820 • Acido sulfúrico d=1,820

H_2SO_4
Molecular Weight: 98,08
CAS: 7664-93-9
EEC-N: 231-639-5

Classification transport
ONU: 1830
Transport Hazard class: 8
Packing group II

Danger
H314
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Sulfuric acid d=1,820 > RS - For agroalimentary analysis

RS

Description ..... Clear colourless liquid Colour (APHA) ..... ≤ 10 APHA Density at 20°C ..... 1.815 ÷ 1.825

Code	Size	Packaging	Notes
502020	5 l	Plastic tank	

According to NF V04-263 and V04-210

Sulfuric acid, dilute

Acido solforico, diluito • Acide sulfurique dilué • Acido sulfúrico, diluido

H_2SO_4
Molecular Weight: 98,08
CAS: 7664-93-9

Classification transport
ONU: 2796
Transport Hazard class: 8
Packing group II

Danger
H314
P264-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338-P337+P313

Sulfuric acid, dilute > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611086804	1 l	Plastic bottle	A 98 g/l solution Ref Ph.Eur 1086804

Talc
Talco • Talc • Talco

Synonym:
Hydrous magnesium silicate

$3MgO.4SiO_2.H_2O$
Molecular Weight: 379,29
CAS: 14807-96-6
EEC-N: 238-877-9

Talc > ERBApharm - According to pharmacopoeia : Ph.Eur.-USP-FU-Ph.Franc.-BP

ERBApharm

Description	White powder	Al	≤ 2.0 %	Pb	≤ 10 ppm	**Microbial tests**	
Identification	Positive	Ca	≤ 0.90 %	Loss on ignition	≤ 7.0 %	TAMC	≤ 100 CFU/g
Acidity or alkalinity	Conform	Fe	≤ 0.25 %	Asbestos	Absent	TYMC	≤ 50 CFU/g
Sostanze idrosolubili	≤ 0.1 %	Mg	17.0 ÷ 19.5 %				

Code	Size	Packaging	Notes
382107	1 kg	Plastic bottle	
382109	5 kg	Plastic jar	
382105	25 kg	Plastic bucket	

Tannic acid
Acido tannico • Acide tannique • Acido tánico

Synonym:
Gallotannin

$C_{76}H_{52}O_{46}$
Molecular Weight: 1701,23
CAS: 1401-55-4
EEC-N: 215-753-2

Warning
H302-H412
P264-P273-P270-P330-P301+P312a-P501a

Tannic acid > ERBApharm - According to pharmacopoeia : Ph.Eur.-USP-FU

ERBApharm

Description	Yellowish powder	Loss on drying	≤ 12.0 %	As	≤ 3 ppm	Appearance of solution	Conform Ph.Eur.
Identification	Positive	Sulphated ash	≤ 0.1 %	Dextrins, gum, salts, sugars	Conform Ph.Eur.	Resins	Conform Ph.Eur.

Code	Size	Packaging	Notes
307157	1 kg	Bag	
307152	5 kg	Plastic jar	
307153	25 kg	Plastic bucket	

Tannic acid > RE - Pure

RE

Description	Brown powder	Water solubility	Conform	Water	< 7 %	Assay (gravimetric)	> 94 % s.s.
Identification	Positive	Alcohol solubility	Conform	Sulphated ash	< 0.3 %		

Code	Size	Packaging	Notes
411074	100 g	Plastic bottle	
411076	500 g	Plastic bottle	
411077	5 kg	Plastic jar	

Tantalum standard solution
Tantalio standard soluzione • Tantale solution standard • Tántalo, solución patrón

Classification transport
ONU: 1760
Transport Hazard class: 8
Packing group III

Tantalum standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505872	100 ml	Plastic bottle	conc. 10 ppm Matrix : Nitric acid and hydrofluoric acid
505875	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid and hydrofluoric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Tantalum standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
503961	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid and hydrofluoric acid
503965	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrofluoric acid and nitric acid
503963	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid and hydrofluoric acid
503967	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrofluoric acid and nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Tantalum standard solution > RS - Standard solution for AAS

RS

Code	Size	Packaging	Notes
507761	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
507517	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

L(+) Tartaric Acid

Acido L(+)tartarico • Acide L(+)tartrique • Acido L(+)tartárico

$HOOC(CHOH)_2COOH$
Molecular Weight: 150,09
CAS: 87-69-4
EEC-N: 201-766-0

Warning
H319
P264-P280-P305+P351+P338-P337+P313

L(+) Tartaric Acid > RPE - For analysis - ACS - ISO

RPE

Description ..... White crystalline powder
Identification ..... Positive
Water-insoluble matter .....≤50 ppm
Residue on ignition .....≤200 ppm
Chloride .....≤10 ppm
Phosphate .....≤10 ppm
Oxalate .....Conform
Sulfur compounds (as SO4).....≤20 ppm
Heavy metals (Pb).....≤5 ppm
Fe .....≤5 ppm
Assay (acidimetric) ..... ≥99.0 %

Code	Size	Packaging	Notes
411125	250 g	Plastic bottle	
411127	1 kg	Plastic bottle	
411121	25 kg	Plastic bucket	

L(+) Tartaric Acid > ERBApharm - According to pharmacopoeia : DAB-BP-FU-NF-Ph.Eur.-Ph.Franc.

ERBApharm

Description ..... White crystalline powder
Identification ..... Positive
Appearance of solution .....Conform Ph.Eur.
Specific optical rotation... +12.0 ÷ +12.8 °
Loss on drying ..... ≤0.2 %
Sulphated ash ..... ≤0.1 %
Oxalic acid .....≤350 ppm
Chloride .....≤100 ppm
Sulphate .....≤150 ppm
Heavy metals (Pb).....≤10 ppm
Calcium .....≤200 ppm
Origin (BSE/TSE).....Vegetable
Assay (acidimetric) .....99.7 ÷ 100.5 % s.s.
Residual solvents (Current ICH).....Conform

Code	Size	Packaging	Notes
307357	1 kg	Plastic bottle	
307359	5 kg	Plastic jar	

L(+) Tartaric Acid > ERBApharm - Crystals - According to pharmacopoeia : Ph.Eur.-NF-FU-Ph.Franc.-BP-

ERBApharm

Description .....Colourless crystals
Identification ..... Positive
Appearance of solution .....Conform Ph.Eur.
Residual solvents (Current ICH).....Conform
Specific optical rotation... +12.0 ÷ +12.8 °
Loss on drying ..... ≤ 0.2 %
Sulphated ash ..... ≤ 0.1 %
Oxalic acid .....≤ 350 ppm
Chloride .....≤ 100 ppm
Sulphate .....≤ 150 ppm
Heavy metals (Pb).....≤ 10 ppm
Calcium .....≤ 200 ppm
Assay (acidimetric) .....99.7 ÷ 100.5 % s.s.
Origin (BSE/TSE).....Vegetable

Code	Size	Packaging	Notes
307307	1 kg	Plastic bottle	
307309	5 kg	Plastic jar	
307301	25 kg	Plastic bucket	
307304	50 kg	Plastic bucket	

L(+) Tartaric acid solution 20% in water

Acido L(+)tartarico soluzione 20% in acqua • Acide L(+)tartrique 20% • Acido L(+)tartárico solución 20% en agua

$HOOC(CHOH)_2COOH$
Molecular Weight: 150,09
CAS: 87-69-4

Warning
H319
P264-P280-P305+P351+P338-P337+P313

L(+) Tartaric acid solution 20% in water > RPE - For analysis

RPE

Description ..... Clear colourless liquid | Identification ..... Positive | Density at 15° C ..... ~ 1.10 | Assay (acidimetric) ..... 20 ÷ 21 %

Code	Size	Packaging	Notes
E411131	1 l	Bottle	

L-(+)-Tartaric acid diammonium salt ▶ Ammonium L(+)tartrate

Tartrazine

Tartrazina • Tartrazine • Tartracina

Synonym:
Acid Yellow 23

$C_{16}H_9N_4Na_3O_9S_2$
Molecular Weight: 534,39
CAS: 1934-21-0
EEC-N: 217-699-5

Tartrazine > RS - For microscopy - C.I. 19140

RS

Description ..... Orange powder | Identification ..... Positive | Loss on drying ..... ≤6 % | Assay (oxidimetric) ..... ≥85 %

Code	Size	Packaging	Notes
486903	50 g	Glass bottle	

Dye for histology

Tauber reagent

Tauber reattivo • Réactif de Tauber • Tauber reactivo

HEU210

Tauber reagent > RS - For microscopy

RS

Description ..... Yellow clear liquid | Identification ..... Positive | Sensibilità acido ascorbico ..... Conform

Code	Size	Packaging	Notes
490422	500 ml	Glass bottle	

Taurine

Taurina • Taurine • Taurina

Synonym:
2-Aminoethanesulfonic acid

$NH_2CH_2CH_2SO_3H$
Molecular Weight: 125,15
CAS: 107-35-7
EEC-N: 203-483-8

Warning
H315-H319-H335
P264-P271-P304+P340-P305+P351+P338-P312a-P332+P313

Taurine > RPE - For analysis

RPE

Description ..... White crystals | Identification ..... Positive | Loss on drying ..... ≤ 0.2 %
Chloride ..... ≤ 110 ppm | Sulphate ..... ≤ 140 ppm | Heavy metals (Pb) ..... ≤ 20 ppm
As ..... ≤ 2 ppm | Ammonium ..... ≤ 200 ppm | Residue on ignition ..... ≤ 0.1 %
Assay (acidimetric) ..... ≥ 98.5 %

Code	Size	Packaging	Notes
486953	50 g	Glass bottle	

Tellurium standard solution

Tellurio standard soluzione • Tellurium solution standard • Teluro, solución patrón

Classification transport
ONU: 3264
Transport Hazard class: 8
Packing group II

Danger
H314
P264-P280-P305+P351+P338-P337+P313

Tellurium standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505887	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505888	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Tellurium standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
503981	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
503985	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrochloric acid
503983	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
503987	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrochloric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Tellurium standard solution > RS - Standard solution for AAS

RS

Code	Size	Packaging	Notes
507762	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
507518	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Terbium standard solution

Terbio standard soluzione • Terbium solution standard • Terbio, solución patrón

Classification transport
ONU: 3264
Transport Hazard class: 8
Packing group III

Danger
H314-H318
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Terbium standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505882	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505883	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505885	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Terbium standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
503971	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503975	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
503973	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503977	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Tetrabutylammonium bisulfate

Tetrabutilammonio bisolfato • Tetrabutylammonium bisulfate • Tetrabutilamonio bisulfato

$C_{16}H_{37}NO_4S$
Molecular Weight: 339,53
CAS: 32503-27-8
EEC-N: 251-068-5

Warning
H302-H315-H319-H335
P264-P271-P280-P304+P340-P305+P351+P338-P330

Tetrabutylammonium bisulfate > RS - For ion pair chromatography

RS

Absorbance UV curve (10%)
A210nm (1M) ..... ≤ 0.06 AU
A220nm (1M) ..... ≤ 0.05 AU
A230nm (1M) ..... ≤ 0.03 AU
A260nm (1M) ..... ≤ 0.02 AU
A500nm (1M) ..... ≤ 0.02 AU

Code	Size	Packaging	Notes
405971	25 g	Plastic bottle	
405972	100 g	Plastic bottle	

Tetrabutylammonium bisulfate > RPE - For analysis

RPE

Description ..... White crystals
Identification ..... Positive
Assay (acidimetric) ..... ≥ 97.5 %
Melting point ..... 168 ÷ 172 °C
Tributilammina ..... ≤ 0.5 %
Sulphated ash ..... ≤ 0.5 %

Code	Size	Packaging	Notes
487101	250 g	Plastic bottle	

Tetrabutylammonium bromide

Tetrabutilammonio bromuro • Tétrabutylammonium bromure • Tetrabutilamonio bromuro

$(C_4H_9)_4NBr$
Molecular Weight: 322,37
CAS: 1643-19-2
EEC-N: 216-699-2

Warning
H302
P264-P270-P330-P301+P312a-P501a

Tetrabutylammonium bromide > RS - For polarography

RS

Description ..... White crystals
Identification ..... Positive
Melting point ..... 100÷104 °C

Code	Size	Packaging	Notes
487051	10 g	Glass bottle	

Tetrabutylammonium hydroxide solution 0.1 mol/l (0.1N)

Tetrabutilammonio idrossido soluzione 0.1 mol/l (0.1N) • Tétrabutylammonium hydroxyde 0.1 mol/l (0.1N) • Tetrabutilamonio hidróxido solución 0.1 mol/l (0.1N)

$(C_4H_9)_4NOH$
Molecular Weight: 259,48
CAS: 2052-49-5

Classification transport
ONU: 1992
Transport Hazard class: 3
Packing group II

Danger
H225-H315-H319-H361d-H371-H336-H373
P210-P241-P264-P303+P361+P353-P305+P351+P338-P403+P235

Tetrabutylammonium hydroxide solution 0.1 mol/l (0.1N) > RS - For analysis according to Ph. Eur. Chap. 4.2.2

RS

Code	Size	Packaging	Notes
613008300	1 l	Glass bottle	Ref Ph.Eur 3008300

Tetrabutylammonium hydroxide 0.1 mol/l (0.1N) in 2-propanol

Tetrabutilammonio idrossido 0.1 mol/l (0.1N) in isopropanolo • Tétrabutylammonium hydroxyde 0.1 mol/l (0.1N) dans propanol-2 • Tetrabutilamonio hidróxido 0.1 mol/l (0.1N) en 2-propanol

$(C_4H_9)_4NOH$
Molecular Weight: 259,48
CAS: 2052-49-5

Classification transport
ONU: 1992
Transport Hazard class: 3
Packing group II

Danger
H225-H301-H331-H315-H318-H370-H336
P210-P241-P264-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

Tetrabutylammonium hydroxide 0.1 mol/l (0.1N) in 2-propanol > RS - For analysis according to Ph. Eur. Chap. 4.2.2

RS

Code	Size	Packaging	Notes
613008400	1 l	Glass bottle	Ref Ph.Eur 3008400

Tetrabutylammonium hydroxide 0.1 mol/l (0.1N) in 2-propanol > RPE - For analysis

RPE

Description ..... Clear colourless liquid Identification ..... Positive Density at 20° C ..... ~ 0.80 Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
E487031	500 ml	Glass bottle	

Tetrabutylammonium hydroxide solution 0.1 mol/l (0.1N) in methanol / propanol-2

Tetrabutilammonio idrossido 0.1 mol/l (0.1N) in metanolo/propan-2-olo (50/50) •
Tetrabutylammonium hydroxyde 0.1 mol/l (0.1N) dans méthanol / propanol-2 (50/50) •
Tetrabutilamonio hidróxido 0.1 mol/l (0.1N) en methanol / propanol-2 (50/50)

$(C_4H_9)_4NOH$
Molecular Weight: 259,48
CAS: 2052-49-5

Classification transport
ONU: 3286
Transport Hazard class: 3
Packing group II

Danger
H225-H331-H315-H318-H370-H336
P210-P241-P264-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

Tetrabutylammonium hydroxide solution 0.1 mol/l (0.1N) in methanol / propanol-2 > RPE - For analysis

RPE

Assay (potentiomety) ..... 0.0998 - 0.1002 N

Code	Size	Packaging	Notes
P3840016	1 l	Glass bottle	

Tetrachloroauric(III) acid ▶ Gold(III) chloride trihydrate

Tetrachloro-1,4-benzoquinone ▶ Chloranil

Tetrachloroethane-d2

Tetracloroetano-d2 • Tétrachloroéthane-d2 • Tetracloroetano-D2

Synonym:
1,1,2,2-Tetrachloroethane-d2
1,2-Dideutero-1,1,2,2-tetrachloroethane

$C_2D_2Cl_4$
Molecular Weight: 169,86
CAS: 33685-54-0
EEC-N: 251-634-1

Classification transport
ONU: 1702
Transport Hazard class: 6.1
Packing group II

Danger
H310-H330-H411
P264-P273-P271-P280-P284-P304+P340

Tetrachloroethane-d2 > RS - For NMR - min 99.5%

RS

Code	Size	Packaging	Notes
P5435	25 ml	Glass bottle	

Tetrachloroethylene

Tetracloroetilene • Tétrachloroéthylène • Tetracloroetileno

Synonym:
Perchloroethylene

C_2Cl_4
Molecular Weight: 165,83
CAS: 127-18-4
EEC-N: 204-825-9

Classification transport
ONU: 1897
Transport Hazard class: 6.1
Packing group III

Warning
H315-H319-H317-H351-H336-H411
P264-P273-P271-P304+P340-P305+P351+P338-P308+P313

Tetrachloroethylene > RS - SPECTROSOL - For optical spectroscopy

RS

Clear,colourless liq.appearance ..... Conform
Identification ..... Conform
Refractive index at 20°C .. 1.5014 - 1.5074
Density at 20°C ..... 1.618 - 1.628
Boiling point..... 120.3 - 121.8 °C

Water content (K.F.) ..... ≤ 100 mg/Kg
Non volatile residue ..... ≤ 10 mg/Kg
Assay (GC) ..... ≥ 99.9 %
Free acid ..... ≤ 0.0003 meq/g
Free alkali ..... ≤ 0.00006 meq/g

Fluorescence (quinine) at 365 nm .. ≤ 2 ppb
UV transmittance at 300 nm ..... ≥ 75 %
UV transmittance at 310 nm ..... ≥ 83 %
UV transmittance at 320 nm ..... ≥ 88 %
UV transmittance at 340 nm ..... ≥ 88 %

UV transmittance at 360 nm ..... ≥ 88 %
UV transmittance at 400 nm ..... ≥ 97 %

Code	Size	Packaging	Notes
P0682716	1 l	Glass bottle	
P0682721	2.5 l	Glass bottle	

Tetrachloroethylene > RPE - For analysis - Stabilized

RPE

Description ..... Clear colourless liquid
Identification ..... Positive
Alcohol miscibility..... Complete
Benzene miscibility..... Complete
Diethyl ether miscib..... Complete
Phosgene ..... Conform
Ready carbonizable substances..... Conform
Density at 20° C ..... 1.618 ÷ 1.628
Refractive index at 20°C. 1.5014 ÷ 1.5074
Boiling point..... 120.3 ÷ 121.8 °C
Water (K.F.) ..... ≤ 200 ppm
Residue on evaporation ..... ≤ 10 ppm
Acidity (HCl) ..... ≤ 5 ppm
Alcalinity (NH3)..... ≤ 0.5 ppm
Free chlorine..... ≤ 0.1 ppm
Chloride..... ≤ 1 ppm
Assay (GLC) ..... ≥ 99.5 %

Code	Size	Packaging	Notes
449671	1 l	Glass bottle	
449672	2.5 l	Glass bottle	
449673	35 kg	Drum	

Tetrachloroethylene > RE - Pure - Stabilized

RE

Refractive index at 20°C..... 1.503 - 1.507
Description ..... Clear colourless liquid
Water content (K.F.)..... ≤ 100 mg/Kg
Identification ..... Positive
Non volatile residue..... ≤ 50 mg/Kg
Density at 20° C ..... 1.618 ÷ 1.628
Colour ..... ≤ 10 Hazen
Residue on evaporation ..... ≤20 ppm
Assay (GC)..... ≥ 99 %
Assay (GLC) ..... ≥98 %

Code	Size	Packaging	Notes
343001	1 l	Glass bottle	
P0680228	5 l	Plastic tank	
343003	40 kg	Metal drum	

Tetraethylammonium bromide

Tetraetilammonio bromuro • Tétraéthylammonium bromure • Tetraetilamonio bromuro

Synonym:
TEA Bromide

$(C_2H_5)_4NBr$
Molecular Weight: 210,17
CAS: 71-91-0
EEC-N: 200-769-4

Tetraethylammonium bromide > RS - For polarography

RS

Description ..... White powder
Identification ..... Positive

Code	Size	Packaging	Notes
487152	25 g	Glass bottle	

Tetrahydrofuran

Tetraidrofurano • Tétrahydrofuranne • Tetrahidrofurano

$OCH_2CH_2CH_2CH_2$
Molecular Weight: 72,11
CAS: 109-99-9
EEC-N: 203-726-8

Classification transport
ONU: 2056
Transport Hazard class: 3
Packing group II

Danger
H225-H319-H351-H335-HEU019
P210-P241-P264-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

Tetrahydrofuran > RS - For HPLC - Isocratic grade - Not stabilized

RS

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 20° C ..... 0.885 ÷ 0.893
Refractive index at 20°C. 1.4040 ÷ 1.4100
Boiling point..... 64.0 ÷ 65.0 ° C
Water (K.F.) ..... ≤200 ppm
Residue on evaporation ..... ≤2 ppm
Peroxide ..... ≤200 ppm
Acidity ..... ≤0.00035 meq/g
Alcalinity..... ≤0.0006 meq/g
Assay (GLC) ..... ≥99.9 %

U.V. Transmittance
at 230 nm ..... ≥15 %
at 240 nm ..... ≥40 %
at 250 nm ..... ≥55 %
at 260 nm ..... ≥70 %
at 270 nm ..... ≥85 %
At 275 nm ..... ≥ 90 %
at 280 nm ..... ≥92 %
At 310 nm ..... ≥ 98 %
At 315 nm ..... ≥ 99 %

Code	Size	Packaging	Notes
412451000	1 l	Glass bottle	
412453000	1 l	Glass bottle PVC coated	
412452000	2.5 l	Glass bottle	

Filtered through 0.2 µm membrane

Tetrahydrofuran > RS - For HPLC - Isocratic grade - Stabilized with BHT

RS

Clear,colourless liq.appearance ..... Conform
Identification ..... Conform
Colour ..... ≤ 10 Apha
Refractive index at 20°C ..... 1.405 - 1.409
Water content (K.F.) ..... ≤ 200 mg/Kg
Peroxides (as H2O2) ..... ≤ 50 mg/Kg
Stabilizer (ionol) ..... 40 - 60 mg/Kg
UV transmittance at 240 nm ..... ≥ 10 %
UV transmittance at 250 nm ..... ≥ 40 %
UV transmittance at 280 nm ..... ≥ 30 %
UV transmittance at 300 nm ..... ≥ 90 %
UV transmittance at 320 nm ..... ≥ 95 %
Free acid (as CH3COOH) ..... ≤ 20 mg/Kg
Assay (GC) ..... ≥ 99.8 %
Non volatile residue (without stab.) ≤ 5 mg/Kg

Code	Size	Packaging	Notes
412471	1 l	Glass bottle	
412472	2.5 l	Glass bottle	

Tetrahydrofuran > RS - For preparative HPLC - Stabilized with BHT

RS

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 20° C ..... 0.885 ÷ 0.893
Refractive index at 20°C . 1.4040 ÷ 1.4100
Boiling point ..... 64.0 ÷ 65.0 ° C
Water (K.F.) ..... ≤200 ppm
Residue on evaporation ..... ≤5 ppm
Alcalinity ..... ≤0.0002 meq/g
Peroxide ..... ≤50 ppm
Assay (GLC) ..... ≥99.8 %
U.V. Transmittance
at 320 nm ..... ≥90 %
Stabilizer (Ionol) ..... 40 ÷ 60 ppm

Code	Size	Packaging	Notes
487352	2.5 l	Glass bottle	

Tetrahydrofuran > RS - SPECTROSOL - For optical spectroscopy - Not stabilized - Reag.Ph.Eur.

RS

Description ..... Clear colourless liquid
Colour (APHA) ..... ≤10
Identification ..... Positive
Density at 20° C ..... 0.885 ÷ 0.893
Refractive index at 20°C . 1.4040 ÷ 1.4100
Boiling point ..... 64.0 ÷ 65.0 ° C
Water (K.F.) ..... ≤200 ppm
Residue on evaporation ..... ≤5 ppm
Acidity ..... ≤0.0005 meq/g
Alcalinity ..... ≤0.0002 meq/g
Peroxides (H2O2) ..... ≤300 ppm
Assay (GLC) ..... ≥99.9 %
U.V. Transmittance
at 240 nm ..... ≥30 %
at 250 nm ..... ≥50 %
at 300 nm ..... ≥95 %
at 320 nm ..... ≥98 %
UV Absorbance at 255 nm ..... ≤ 0.70 AU
UV Absorbance at 270 nm ..... ≤ 0.10 AU
UV Absorbance at 310 nm ..... ≤ 0.01 AU

Code	Size	Packaging	Notes
487345	1 l	Glass bottle	
487346	2.5 l	Glass bottle	

Tetrahydrofuran > RS - Anhydrous - For analysis - Stabilized with BHT

RS

Refractive index at 20°C ..... 1.405 - 1.409
Water content (K.F.) ..... ≤ 100 mg/Kg
Colour ..... ≤ 10 Hazen
Peroxides (as H2O2) ..... ≤ 20 mg/Kg
Stabilizer (ionol) ..... 200 - 400 mg/Kg
Assay (GC) ..... ≥ 99.9 %
Free acid (as CH3COOH) ..... ≤ 20 mg/Kg
Clear,colourless liq.appearance ..... Conform
Identification (IR) ..... Conform
Density d20/4 ..... 0.884 - 0.894
Non volatile residue (without stab.) ≤ 10 mg/Kg

Code	Size	Packaging	Notes
P0701010	200 ml	Bottle with septum	
P07010T10	200 ml	Bottle with septum	On molecular sieves 4A
P0701016	1 l	Glass bottle	
P07010T16	1 l	Glass bottle	On molecular sieves 4A
P0701021	2.5 l	Glass bottle	

Tetrahydrofuran > RPE - For analysis - ACS - Reag.Ph.Eur. - Reag.USP - Stabilized with BHT

RPE

Description ..... Clear colourless liquid
Colour (APHA) ..... ≤ 10
Identification (I.R.) ..... Conform
Density at 20° C ..... 0.885 ÷ 0.893
Refractive index at 20°C . 1.4040 ÷ 1.4100
Boiling point ..... 64.0 ÷ 65.0 ° C
Water (K.F.) ..... ≤150 ppm
Residue on evaporation ..... ≤300 ppm
Acidity (acetic acid) ..... ≤20 ppm
Alcalinity (NH3) ..... ≤7 ppm
Peroxides (H2O2) ..... ≤20 ppm
Al ..... ≤0.5 ppm
Ba ..... ≤0.1 ppm
Ca ..... ≤0.5 ppm
Cd ..... ≤0.05 ppm
Co ..... ≤0.02 ppm
Cr ..... ≤0.02 ppm
Cu ..... ≤0.02 ppm
Fe ..... ≤0.1 ppm
Mg ..... ≤0.1 ppm
Mn ..... ≤0.02 ppm
Ni ..... ≤0.02 ppm
Pb ..... ≤0.1 ppm
Sn ..... ≤0.1 ppm
Zn ..... ≤0.1 ppm
Assay (GLC) ..... ≥99.9 %
Stabilized with BHT ..... 200 ÷ 350 ppm
Residue on evaporation (without stab). ≤ 10 ppm

Code	Size	Packaging	Notes
487308	1 l	Glass bottle	
487303	2.5 l	Glass bottle	
487305	5 l	Plastic tank	
487307	5 l	Aluminium can	
487301	23 kg	Metal drum	
487309	200 l	Metal drum	

Tetrahydrofuran > RE - Pure - Stabilized with BHT

RE

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 20° C ..... 0.884 ÷ 0.894
Refractive index at 20°C. 1.4020 ÷ 1.4120
Boiling point..... 63.8 ÷ 65.3 ° C
Water (K.F.) ..... ≤200 ppm
Acidity ..... ≤50 ppm
Peroxides (H2O2) ..... ≤100 ppm
Assay (GLC) ..... ≥99.5 %
Residue on evaporation (without stab). ≤ 50 ppm
Stabilized with BHT..... 200 ÷ 350 ppm

Code	Size	Packaging	Notes
382981	1 l	Glass bottle	
382985	2.5 l	Glass bottle	
382982	5 l	Aluminium can	
528481	5 l	Plastic tank	
382986	23 kg	Metal drum	
382983	200 l	Metal drum	

Tetrahydrofuran-d8

Tetraidrofurano-d8 • Tétrahydrofuranne-d8 • Tetrahidrofurano-d8

Synonym:
Octadeuterotetrahydrofuran

C_4D_8O
Molecular Weight: 80,16
CAS: 1693-74-9
EEC-N: 216-898-4

Classification transport
ONU: 2056
Transport Hazard class: 3
Packing group II

Danger
H225-H315-H319-H351-H335-HEU019
P210-P241-P264-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

Tetrahydrofuran-d8 > RS - For NMR - min 99.5%

RS

Code	Size	Packaging	Notes
P5380	2 x 0.6 ml	Glass ampoule	
P5385	25 ml	Glass bottle	

1,2,3,4-Tetrahydronaphthalene

1,2,3,4-Tetraidronaftalene • 1,2,3,4-Tétrahydronaphtalène • 1,2,3,4-Tetrahidronaftaleno

$C_6H_4CH_2CH_2CH_2CH_2$
Molecular Weight: 132,21
CAS: 119-64-2
EEC-N: 204-340-2

Classification transport
ONU: 3082
Transport Hazard class: 9
Packing group III

Warning
H315-H319-H411-HEU019
P264-P273-P280g-P305+P351+P338-P332+P313-P337+P313

1,2,3,4-Tetrahydronaphthalene > RE - Pure

RE

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 20° C ..... 0.968 ÷ 0.978
Refractive index at 20°C. 1.5411 ÷ 1.5511
Boiling point..... 206.3 ÷ 208.3 °C
Residue on ignition..... ≤100 ppm
Assay (GLC) ..... ≥97 %

Code	Size	Packaging	Notes
383002	1 l	Glass bottle	

Tetramethylammonium hydroxide 10%

Tetrametilammonio idrossido 10% • Tétraméthylammonium hydroxyde 10% • Tetrametilamonio hidróxido 10%

$C_4H_{13}NO$
Molecular Weight: 91,15
CAS: 75-59-2

Classification transport
ONU: 2733
Transport Hazard class: 3
Packing group II

Danger
H225-H310-H314
P210-P241-P264-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

Tetramethylammonium hydroxide 10% > RS - For polarography and steroids detection

RS

Description ..... Clear colourless liquid
Identification ..... Positive
Assay (acidimetric) ..... 9.5 ÷ 10.5 %

Code	Size	Packaging	Notes
487491	100 ml	Glass bottle	
487492	250 ml	Glass bottle	

n,n,n',n'-Tetramethyl-p-phenylenediamine dihydrochloride

N,N,N',N'-Tetrametil-p-fenilendiammina bicloridrato • n,n,n',n'-Tétraméthyl-p-phénylènediamine dichlorhydraté • n,n,n',n'-Tetrametil -p-fenilendiamina diclorhidrato

Synonym:
TMPPD
Wurster's reagent

$C_6H_4[N(CH_3)_2]_2.2HCl$
Molecular Weight: 237,17
CAS: 637-01-4
EEC-N: 211-274-8

Warning
H315-H319-H335
P264-P271-P280-P304+P340-P305+P351+P338-P312a

n,n,n',n'-Tetramethyl-p-phenylenediamine dihydrochloride > RPE - For analysis

RPE

Description . White-hazel crystalline powder Identification ..... Positive Melting point..... 219 ÷ 222 °C Assay (non-aqueos medium)..... ≥ 98.5 %

Code	Size	Packaging	Notes
487601	5 g	Glass bottle	

Tetramethylsilane

Tetrametilsilano • Tétraméthylsilane • Tetrametilsilano

Synonym:
TMS

$(CH_3)_4Si$
Molecular Weight: 88,23
CAS: 75-76-3
EEC-N: 200-899-1

Classification transport
ONU: 2749
Transport Hazard class: 3
Packing group I

Danger
H224
P210-P241-P243-P280a-P303+P361+P353-P403+P235

Tetramethylsilane > RS - For NMR - min 99.8%

RS

Code	Size	Packaging	Notes
P5455S	25 ml	Bottle with septum	

Tetrazolium blue

Blu tetrazolo • Bleu de tétrazolium • Azul de tetrazolio

Synonym:
BTC
3,3'-(3,3'-Dimethoxy[1,1'-biphenyl]-4,4'-diyl)-bis(2,5-diphenyl-2H-tetrazolium) dichloride

$C_{40}H_{32}N_8O_2Cl_2$
Molecular Weight: 727,65
CAS: 1871-22-3
EEC-N: 217-488-8

Tetrazolium blue > RS - For microscopy

RS

Description ..... Pale yellow powder Identification ..... Positive Melting point..... ~ 245 °C

Code	Size	Packaging	Notes
429187	1 g	Glass bottle	

Thallium standard solution

Tallio standard soluzione • Thallium solution standard • Talio, solución patrón

Thallium standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2

RS

Code	Size	Packaging	Notes
615003000	100 ml	Plastic bottle	A 10 ppm solution Ref Ph.Eur 5003000

Thallium standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505912	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505915	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid
505913	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Thallium standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
504011	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
504015	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
504013	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
504017	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Thiazole Yellow G ▶ Clayton's yellow

Thioacetamide

Tioacetammide • Thioacétamide • Tioacetamida

Synonym:
Ethanethioamide

CH_3CSNH_2
Molecular Weight: 75,13
CAS: 62-55-5
EEC-N: 200-541-4

Danger
H302-H315-H319-H350-H412-HA26
P264-P273-P305+P351+P338-P308+P313-P330-P332+P313

Thioacetamide > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description ..... White crystalline powder
Identification ..... Positive
Melting point ..... 111 ÷ 114 ° C
Residue on ignition ..... ≤ 500 ppm
Assay (argentimetric) ..... ≥ 99.0 %
Appearance of solution 2% ..... Conform

Code	Size	Packaging	Notes
487803	50 g	Glass bottle	
487807	500 g	Glass bottle	

Thioacetamide solution 40 g/l

Tioacetammide soluzione 40 g/l • Thioacétamide solution 40 g/l • Tioacetamida solución 40 g/l

Synonym:
Ethanethioamide

CH_3CSNH_2
Molecular Weight: 75,13
CAS: 62-55-5

Danger
H350-HA26
P280-P201-P202-P308+P313-P405-P501a

Thioacetamide solution 40 g/l > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611089603	100 ml	Plastic bottle	Ref Ph.Eur 1089602
611089602	1 l	Plastic bottle	Ref Ph.Eur 1089602

2-Thiobarbituric acid

Acido 2-tiobarbiturico • Acide 2-thiobarbiturique • Acido 2-tiobarbitúrico

Synonym:
4,6-Dihydroxy-2-mercaptopyrimidine
4,6-Dihydroxypyrimidine-2-thiol

$NHCOCH_2CONHCS$
Molecular Weight: 144,15
CAS: 504-17-6
EEC-N: 207-985-8

2-Thiobarbituric acid > RPE - For analysis

RPE

Description ..... Yellowish crystalline powder
Identification ..... Positive
Loss on drying ..... ≤ 2 %
Sulphated ash ..... ≤ 0.5 %
Assay (acidimetric) ..... ≥ 97.5 % (s.s.)

Code	Size	Packaging	Notes
411271	5 g	Glass bottle	
411272	25 g	Glass bottle	

Thiocarbamide ▶ Thiourea

Thioethylene glycol ▶ 2-Mercaptoethanol

Thioglycolic acid 80%

Acido tioglicolico 80% • Acide thioglycolique 80% • Acido tioglicólico 80%

Synonym:
Mercaptoacetic acid

$CH_2SHCOOH$
Molecular Weight: 92,17
CAS: 68-11-1

Classification transport
ONU: 1940
Transport Hazard class: 8
Packing group II

Danger
H301-H311-H331-H314-H318
P264-P271-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Thioglycolic acid 80% > RPE - For analysis

RPE

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 20° C ..... 1.249 ÷ 1.269
Heavy metals (Pb) ..... ≤10 ppm
Iron sensitivity ..... ≥0.1 µg/ml
Sulphate ..... ≤50 ppm
Fe ..... ≤50 ppm
Assay (oxidimetric) ..... ≥80 %

Code	Size	Packaging	Notes
411385	500 ml	Glass bottle	

Thiourea

Tiourea • Thiourée • Tiourea

Synonym:
Thiocarbamide
Sulfourea

NH_2CSNH_2
Molecular Weight: 76,12
CAS: 62-56-6
EEC-N: 200-543-5

Classification transport
ONU: 2811
Transport Hazard class: 6.1
Packing group III

Warning
H302-H351-H361d-H411
P264-P273-P280-P308+P313-P330-P301+P312a

Thiourea > RPE - For analysis - ACS

RPE

Description ..... White crystalline powder
Identification ..... Positive
Water solubility ..... Conform
Melting point ..... 174 ÷ 177 °C
Loss on drying ..... ≤0.5 %
Residue on ignition ..... ≤0.1 %
Bismuth sensitivity ..... Conform
Assay (argentimetric) ..... ≥99.0 % s.s.

Code	Size	Packaging	Notes
488104	100 g	Plastic bottle	
488105	250 g	Plastic bottle	
488107	1 kg	Plastic bottle	
488101	50 kg	Fibre drum	

Thiourea > RE - Pure

RE

Description ..... White crystalline powder
Identification ..... Positive
Melting point ..... 173 ÷ 178 ° C
Loss on drying ..... ≤2 %
Heavy metals (Pb) ..... ≤10 ppm
Residue on ignition ..... ≤0.1 %
Fe ..... ≤10 ppm
Assay (argentimetric) ..... ≥98 %

Code	Size	Packaging	Notes
385407	1 kg	Plastic bottle	
385409	5 kg	Plastic jar	
385403	25 kg	Plastic bucket	

Thorin

Torin • Thorin • Torina

$C_{16}H_{11}AsN_2Na_2O_{10}S_2$
Molecular Weight: 576,3
CAS: 132-33-2
EEC-N: 205-058-2

Classification transport
ONU: 3465
Transport Hazard class: 6.1
Packing group II

Danger
H301-H331-H410
P264-P273-P271-P304+P340-P301+P310a-P330

Thorin > RPE - For analysis

RPE

Description ..... Red powder
Identification ..... Positive

Code	Size	Packaging	Notes
402392	1 g	Glass bottle	

Complexometric indicator

Thorium standard solution

Torio standard soluzione • Thorium solution standard • Torio, solución patrón

Classification transport
ONU: 3264
Transport Hazard class: 8
Packing group III

Danger
H314-H319
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Thorium standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
504281	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
504283	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Thulium standard solution

Tulio standard soluzione • Thullium solution standard • Tulio, solución patrón

Classification transport
ONU: 3264
Transport Hazard class: 8
Packing group III

Thulium standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505917	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505918	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Thulium standard solution > RS - Standard solution for AAS

RS

Code	Size	Packaging	Notes
507763	100 ml	Plastic bottle	conc. 1000 ppm Matrix : Nitric acid
507519	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Thymol

Timolo • Thymol • Timol

Synonym:
2-Isopropyl-5-methylphenol

$C_{10}H_{14}O$
Molecular Weight: 150,22
CAS: 89-83-8
EEC-N: 201-944-8

Classification transport
ONU: 3077
Transport Hazard class: 9
Packing group III

Danger
H302-H314-H411
P264-P273-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Thymol > ERBApharm - According to pharmacopoeia : BP-DAB-NF-Ph.Eur.-FU

ERBApharm

Description ..... Colourless crystals
Identification ..... Positive
Appearance of solution ..... Conform Ph.Eur.
Acidity ..... Conform Ph.Eur.
Related compounds ..... Conform Ph.Eur.
Organic volatile impurities ..... Conform NF
Melting point ..... 48 ÷ 51 °C
Not volatile residue ..... ≤500 ppm
Assay ..... 99.0 ÷ 101.0 %

Code	Size	Packaging	Notes
384205	250 g	Plastic bottle	
384201	1 kg	Plastic bottle	
384202	2.5 kg	Plastic jar	

Thymol blue
Blu timolo • Bleu de thymol • Azul de timol

Synonym:
Thymolsulfonphthalein

$C_{27}H_{30}O_5S$
Molecular Weight: 466,59
CAS: 76-61-9
EEC-N: 200-973-3

Thymol blue > RPE - For analysis
RPE

Description ..... Polvere verde bruna
Identification ..... Positive
Appearance of solution ..... Conform
pH range ..... 1.2 ÷ 2.8
Colour change.....rosso-giallo

Code	Size	Packaging	Notes
429228	5 g	Glass bottle	
429222	25 g	Glass bottle	
429223	50 g	Plastic bottle	

Thymol blue 0.4% in ethanol
Blu timolo soluzione 0,4% in alcole etilico • Bleu de thymol solution 0.4% dans l'éthanol • Azul de timol solucion 0.4% en alcohol etilico

Synonym:
Thymolsulfonphthalein

$C_{27}H_{30}O_5S$
Molecular Weight: 466,59
CAS: 76-61-9

Classification transport
ONU: 1170
Transport Hazard class: 3
Packing group III

Warning
H226-H319
P210-P241-P264-P303+P361+P353-P305+P351+P338-P403+P235

Thymol blue 0.4% in ethanol > RPE - For analysis
RPE

Description ..... Blue-brown liquid
Identification ..... Positive
Sensitivity(pH 1.2-2.8) ..... Conform
Sensitivity(pH 8.2-9.6) ..... Conform
Colour change..... red-yellow

Code	Size	Packaging	Notes
E429235	250 ml	Glass bottle	

Acid-basis indicator (pH 1.2÷2,8-pH 8.2÷9,6)

Thymol blue solution
Blu timolo soluzione • Bleu de thymol solution • Azul de timol solución

Classification transport
ONU: 2924
Transport Hazard class: 3
Packing group III

Warning
H226-H319
P210-P241-P264-P303+P361+P353-P305+P351+P338-P403+P235

Thymol blue solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1
RS

Code	Size	Packaging	Notes
611090601	100 ml	Plastic bottle	Ref Ph.Eur 1090601

Colour change: pH 1.2 (red) to pH 2.8 (yellow); pH 8.0 (olive-green) to pH 9.6 (blue)

Thymol blue indicator
Blu timolo indicatore • Indicateur bleu de thymol • Indicador azul de timol

Thymol blue indicator > RS - For analysis
RS

pH..... 6.8 - 7 unite pH
Temperature of measurement ..... 15 - 25 °C

Code	Size	Packaging	Notes
PS0270/15	1 l	Plastic bottle	

Thymol blue TA indicator
Blu timolo TA indicatore • Indicateur TA au bleu de thymol • TA indicador azul de timol

Thymol blue TA indicator > RS - For analysis
RS

pH ..... 6.5 - 7.5 unite pH Temperature of measurement ..... 15 - 25 °C Coca-cola colour ..... Conform

Code	Size	Packaging	Notes
PS0187/15	1 l	Plastic bottle	
PS0187/16	1 l	Glass bottle	

Thymolphthalein
Timolftaleina • Thymolphtaléine • Timolftaleína

Synonym:
5',5''-Diisopropyl-2',2''-dimethylphenolphthalein

$C_{28}H_{30}O_4$
Molecular Weight: 430,55
CAS: 125-20-2
EEC-N: 204-729-7

Thymolphthalein > RPE - For analysis - ACS
RPE

Description ..... White crystalline powder Identification ..... Positive Colour change..... incolore ÷ blu pH range ..... 9.3 ÷ 10.5

Code	Size	Packaging	Notes
487728	5 g	Glass bottle	
487729	25 g	Glass bottle	

Thymolphthalein 0.1% hydroalcoholic solution
Timolftaleina 0.1% soluzione idroalcolica • Thymolphtaléine 0.1% solution hydroalcoolique • Timolftaleína 0.1% solución hidroalcohólica

Synonym:
5',5''-Diisopropyl-2',2''-dimethylphenolphthalein

$C_{28}H_{30}O_4$
Molecular Weight: 430,55
CAS: 125-20-2

Classification transport
ONU: 1170
Transport Hazard class: 3
Packing group II

Danger
H225-H319
P210-P241-P264-P303+P361+P353-P305+P351+P338-P403+P235

Thymolphthalein 0.1% hydroalcoholic solution > RPE - For analysis
RPE

Description ..... Clear colourless liquid Density at 20° C ..... 0.877 ÷ 0.883 pH range ..... 9.3 - 10.5
Identification ..... Positive Colour change..... incolore blu

Code	Size	Packaging	Notes
E487755	250 ml	Glass bottle	

Michaelis indicator series

Thymolphtalein solution 0.1% in ethanol
Timolftaleina soluzione 0.1% in etanolo • Thymolphtaléine solution 0.1% dans l'éthanol • Timolftaleína solución 0.1% en etanol

Synonym:
5',5''-Diisopropyl-2',2''-dimethylphenolphthalein

$C_{28}H_{30}O_4$
Molecular Weight: 430,55
CAS: 125-20-2

Classification transport
ONU: 1170
Transport Hazard class: 3
Packing group II

Danger
H225-H319
P210-P241-P264-P303+P361+P353-P305+P351+P338-P403+P235

Thymolphtalein solution 0.1% in ethanol > RS - For analysis according to Ph. Eur. Chap. 4.1.1
RS

Code	Size	Packaging	Notes
611090701	100 ml	Plastic bottle	Ref Ph.Eur 1090701

Colour change: pH 9.3 (colourless) to pH 10.5 (blue)

Tin standard solution

Stagno standard soluzione • Etain solution standard • Estaño, solución patrón

Classification transport HEU210
ONU: 3264
Transport Hazard class: 8
Packing group III

Tin standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2 RS

Code	Size	Packaging	Notes
615003101	100 ml	Plastic bottle	A 0.1 ppm solution : to dilute according to Ref Ph.Eur 5003101
615003109	100 ml	Plastic bottle	A 5 ppm solution : to dilute according to Ref Ph.Eur 5003100

Tin standard solution > RS - Standard solution for ICP-MS RS

Code	Size	Packaging	Notes
505862	100 ml	Plastic bottle	conc. 10 ppm Matrix : Nitric acid and hydrofluoric acid
505865	100 ml	Plastic bottle	conc. 100 ppm Matrix : Hydrofluoric acid and nitric acid
505863	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid and hydrofluoric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Tin standard solution > RS - Standard solution for ICP RS

Code	Size	Packaging	Notes
503941	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
503945	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrochloric acid
503943	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
503947	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrochloric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Tin standard solution > RS - Standard solution for AAS RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
E497655	100 ml	Glass bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
503949	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrofluoric acid and nitric acid
507492	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
E497651	500 ml	Glass bottle	conc. 1.000 ppm Matrix : Hydrochloric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Tin standard solution > RS - NORMEX - Concentrated solution for AAS RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
484861		Plastic vial	conc. 1.000 ppm Matrix : Hydrochloric acid - Volume : 50 ml

Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package

Tin, powder
Stagno, polvere • Etain, poudre • Estaño, polvo

Sn
Molecular Weight: 118,69
CAS: 7440-31-5
EEC-N: 231-141-8

Tin, powder > RPE - For analysis
RPE

Description ..... Grey powder Identification ..... Positive Assay (gravimetric) .....≥99 %

Code	Size	Packaging	Notes
484914	100 g	Glass bottle	
484917	1 kg	Plastic bottle	

Tin (II) chloride dihydrate
Stagno cloruro oso diidrato • Chlorure stanneux dihydrate • Estaño (II) cloruro dihidrato

Synonym:
Stannous chloride dihydrate

$SnCl_2.2H_2O$
Molecular Weight: 225,63
CAS: 10025-69-1
EEC-N: 231-868-0

Warning
H302-H332-H315
P264-P271-P280-P304+P340-P330-P332+P313

Tin (II) chloride dihydrate > RPE - For analysis - ACS
RPE

Description .....White crystals Sulphate .....Conform K.....≤ 50 ppm Assay (oxidimetric) .....98.0 ÷ 103.0 %
Identification .....Positive Ca.....≤ 50 ppm Na.....≤ 100 ppm
HCl solubility .....Conform Fe .....≤ 30 ppm Pb .....≤ 100 ppm

Code	Size	Packaging	Notes
485004	100 g	Plastic bottle	
485005	250 g	Plastic bottle	
485007	1 kg	Plastic bottle	
485002	5 kg	Plastic jar	

Tin (II) chloride dihydrate > RE - Pure
RE

Description ..... White crystals Identification ..... Positive Assay (oxidimetric) .....≥97.0 %

Code	Size	Packaging	Notes
379406	500 g	Plastic bottle	
379407	5 kg	Plastic jar	
379403	25 kg	Drum	

Tin (II) chloride solution
Stagno cloruro oso soluzione • Etain (II) chlorure solution • Estaño (II) cloruro solución

Synonym:
Stannous chloride

$SnCl_2$
Molecular Weight: 189,62
CAS: 7772-99-8

Warning
H315
P264-P280-P332+P313-P362-P302+P352a

Tin (II) chloride solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1
RS

Code	Size	Packaging	Notes
611085001	100 ml	Glass bottle	Ref Ph.Eur 1085001

Tin (II) chloride solution 10%

Stagno cloruro oso soluzione 10% • Etain (II) chlorure solution 10% • Estaño (II) cloruro solución 10%

Synonym: *Stannous chloride*

$SnCl_2$
Molecular Weight: 189,62
CAS: 7772-99-8

Warning
H315
P264-P280-P332+P313-P362-P302+P352a

Tin (II) chloride solution 10% > RPE - For analysis

RPE

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 20° C ..... 1.075 ÷ 1.085
Assay ..... 9.5 ÷ 10.5 %

Code	Size	Packaging	Notes
E485041	1 l	Bottle	

Tin (IV) chloride pentahydrate

Stagno cloruro ico pentaidrato • Etain (IV) chlorure pentahydrate • Estaño (IV) cloruro pentahidratado

Synonym: *Tin tetrachloride*

$SnCl_4.5H_2O$
Molecular Weight: 350,58
CAS: 10026-06-9
EEC-N: 231-588-8

Classification transport
ONU: 2440
Transport Hazard class: 8
Packing group III

Danger
H314-H412
P264-P273-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Tin (IV) chloride pentahydrate > RPE - For analysis

RPE

Description ..... White irregular pieces
Identification ..... Positive
Other heavy metals ..... ≤100 ppm
Free chlorine ..... ≤5 ppm
Water-insoluble matter ..... ≤100 ppm
Nitrate ..... ≤20 ppm
Substances not ppt. H2S ..... ≤500 ppm
Stannous salts ..... ≤80 ppm
Sulphate ..... ≤10 ppm
As ..... ≤30 ppm
Fe ..... ≤10 ppm
Sb ..... ≤50 ppm
Assay (gravimetric) ..... ≥99 %

Code	Size	Packaging	Notes
485074	100 g	Glass bottle	
485076	500 g	Plastic bottle	

Tin (II) sulfate

Stagno solfato oso • Etain (II) sulfate • Estaño (II) sulfato

Synonym: *Stannous sulfate*

$SnSO_4$
Molecular Weight: 214,75
CAS: 7488-55-3
EEC-N: 231-302-2

Tin (II) sulfate > RE - Pure

RE

Description ..... Yellowish crystalline powder
Identification ..... Positive
Co ..... ≤50 ppm
Cu ..... ≤20 ppm
Fe ..... ≤100 ppm
Ni ..... ≤20 ppm
Pb ..... ≤200 ppm
Assay (oxidimetric) ..... ≥95 %

Code	Size	Packaging	Notes
379601	1 kg	Plastic bottle	

Tiron

Tiron • Tiron • Tirón

Synonym: *4,5-Dihydroxy-1,3-benzenedisulfonic acid disodium salt monohydrate*

$C_6H_4O_8S_2Na_2.H_2O$
Molecular Weight: 332.22
CAS: 149-45-1
EEC-N: 205-741-5

Warning
H315-H319-H335
P264-P271-P280-P304+P340-P305+P351+P338-P312a

Tiron > RPE - For analysis

RPE

Description ..... Whitish powder
Identification ..... Positive
Loss on drying ..... 4 ÷ 6 %

Code	Size	Packaging	Notes
488131	10 g	Glass bottle	
488132	25 g	Glass bottle	

Complexometric indicator

Tisab
Tisab • Tisab • Tisab

Danger
H318
P280-P305+P351+P338-P310a

Tisab > RS - For analysis
RS

pH.....4.7 - 4.9 unite pH Temperature of measurement..... 19 - 21 °C

Code	Size	Packaging	Notes
PS0363/21	2.5 l	Glass bottle	

Tisab > RS - For fluorides analysis
RS

pH.....5.00 - 6.00 unité pH Temperature of measurement..... 19 - 21 °C

Code	Size	Packaging	Notes
PS0809/22	5 l	Plastic tank	

Tisab III solution
Tisab III soluzione • Tisab III solution • Tisab III solución

Danger
H318
P280-P305+P351+P338-P310a

Tisab III solution > RS - For fluorides analysis
RS

Description ..... Clear colourless liquid Identification ..... Positive pH at 20° C ..... 5.0 ÷ 5.5

Code	Size	Packaging	Notes
488162	500 ml	Plastic bottle	

Titanium standard solution
Titanio standard soluzione • Titane solution standard • Titanio, solución patrón

Titanium standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2
RS

Code	Size	Packaging	Notes
615003200	1 l	Plastic bottle	A 100 ppm solution Ref Ph.Eur 5003200

Titanium standard solution > RS - Standard solution for ICP-MS
RS

Code	Size	Packaging	Notes
505907	100 ml	Plastic bottle	conc. 10 ppm Matrix : Nitric acid and hydrofluoric acid
505908	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid and hydrofluoric acid
505909	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrofluoric acid and nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Titanium standard solution > RS - Standard solution for ICP
RS

Code	Size	Packaging	Notes
504001	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid and hydrofluoric acid
504005	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrochloric acid and hydrofluoric acid
504003	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid and hydrofluoric acid
504007	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrochloric acid and hydrofluoric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Titanium standard solution > RS - Standard solution for AAS

RS

Code	Size	Packaging	Notes
507764	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid and hydrofluoric acid
507520	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Titanium dioxide

Titanio biossido • Titane dioxyde • Titanio dióxido

Synonym:
Titanium(IV) oxide
Titania

TiO_2
Molecular Weight: 79,9
CAS: 13463-67-7
EEC-N: 236-675-5

Titanium dioxide > RPE - For analysis

RPE

Description	White powder	Phosphate	≤0.1 %	Water solubility	≤0.4 %	Zn	≤50 ppm
Identification	Positive	H2SO4-insoluble matter	≤0.1 %	As	≤2 ppm	Assay (oxidimetric)	≥98.5 %
Loss on drying	≤0.5 %	Heavy metals (Pb)	≤10 ppm	Cu	≤5 ppm		
Loss on ignition	≤1.0 %	Sulphate	≤0.1 %	Fe	≤50 ppm		
Chloride	≤200 ppm	Solubility in dil. HCl	≤0.5 %	Pb	≤10 ppm		

Code	Size	Packaging	Notes
488256	100 g	Plastic bottle	
488257	1 kg	Plastic bottle	
488251	10 kg	Drum	

Titanium dioxide > ERBApharm - According to pharmacopoeia : Ph.Eur.-USP-FU-BP

ERBApharm

Description	White powder	Barium	Conform Ph.Eur.	Loss on ignition	≤0.5 %	Fe	≤200 ppm
Identification	Positive	Water-soluble subst.	≤0.25 %	Heavy metals (Pb)	≤20 ppm	Assay (oxidimetric)	99.0 ÷ 100.5 %s.s.
Appearance of solution	Conform Ph.Eur.	Acid soluble matter	≤0.5 %	Sb	≤100 ppm		
Acidity or alkalinity	Conform Ph.Eur.	Loss on drying	≤0.5 %	As	≤1 ppm		

Code	Size	Packaging	Notes
385751	1 kg	Plastic bottle	
385752	5 kg	Plastic jar	
385753	25 kg	Plastic bucket	

Titanium dioxide > RE - Pure

RE

Description	Greyish powder	Loss on drying	≤1 %	Assay (oxidimetric)	≥98 %
Identification	Positive	Solubility in dil. HCl	≤1 %		

Code	Size	Packaging	Notes
385707	1 kg	Plastic bottle	
385709	5 kg	Plastic jar	
385702	25 kg	Plastic bucket	

Titanium isopropylate

Titanio isopropilato • Titane isopropylate • Titanio tetrapropilato

Synonym:
Titanium(IV) isopropoxide
Tetraisopropyl orthotitanate

$Ti[OCH(CH_3)_2]_4$
Molecular Weight: 284,26
CAS: 546-68-9
EEC-N: 208-909-6

Classification transport
ONU: 2413
Transport Hazard class: 3
Packing group III

Danger
H226-H331-H319-H336
P210-P241-P264-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

Titanium isopropylate > RE - Pure

RE

Description	Clear slightly yellow liq.	Density at 20° C	~ 0.965	Assay (gravimetric)	16.6 - 17.3 % Ti
Identification	Positive	Melting point	≥ 15 ° C		

Code	Size	Packaging	Notes
488421	100 ml	Glass bottle	

Titanium potassium hexafluoride ▶ Potassium fluorotitanate

Titanium trichloride-sulfuric acid reagent
Reattivo titanio tricloruro-acido solforico • Titane trichlorure-acide sulfurique • Titanio tricloruro-ácido sulfúrico

Classification transport
ONU: 1760
Transport Hazard class: 8
Packing group II

Danger
H314-H318
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Titanium trichloride-sulfuric acid reagent > RS - For analysis according to Ph. Eur. Chap. 4.1.1 — RS

Code	Size	Packaging	Notes
611091202	100 ml	Glass bottle	Ref Ph.Eur 1091202

Titrating solution
Soluzione titolante • Solution de titrage dureté de l'eau • Soluzione titolante

Titrating solution > RS - For water hardness determination — RS

Refractive index at 20°C ..... 1.33 - 1.334

Code	Size	Packaging	Notes
PS0308/15	1 l	Plastic bottle	

o-Tolidine solution 0.1%
o-Tolidina soluzione 0.1% • o-Tolidine en solution à 0,1% • o-Tolidina solución 0.1%

Synonym:
3,3'-Dimethylbenzidine

$C_{14}H_{16}N_2$
Molecular Weight: 212,28
CAS: 119-93-7

Danger
H290-H350-HA26
P280-P234-P201-P308+P313-P390-P406

o-Tolidine solution 0.1% > RPE - For analysis — RPE

Description ..... Clear colourless liquid Identification ..... Positive

Code	Size	Packaging	Notes
488461	1 l	Glass bottle	

For the determination of Au, Ce, Cl, halogen free, Mn

o-Tolidine solution
o-Tolidina soluzione • o-Tolidine en solution • o-Tolidina solución

o-Tolidine solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1 — RS

Code	Size	Packaging	Notes
611123001	500 ml	Glass bottle	Ref Ph.Eur 1123001

Toluene
Toluene • Toluène • Tolueno

$C_6H_5CH_3$
Molecular Weight: 92,14
CAS: 108-88-3
EEC-N: 203-625-9

Classification transport
ONU: 1294
Transport Hazard class: 3
Packing group II

Danger
H225-H315-H361d-H336-H373-H304
P210-P241-P264-P303+P361+P353-P304+P340-P403+P235

Toluene > RS - For HPLC - Isocratic Grade — RS

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 20° C ..... 0.865 ÷ 0.869
Refractive index at 20°C . 1.4931 ÷ 1.4991
Boiling point ..... 110.1 ÷ 111.1 ° C

Acidity or alkalinity ..... ≤0.0015 meq/g
Water (K.F.) ..... ≤100 ppm
Residue on evaporation ..... ≤2 ppm
Assay (GLC) ..... ≥99.8 %

U.V. Transmittance
At 285 nm ..... ≥ 10 %
at 290 nm ..... ≥55 %
at 300 nm ..... ≥80 %
at 310 nm ..... ≥90 %
at 320 nm ..... ≥94 %
at 330 nm ..... ≥96 %
at 350 nm ..... ≥99 %

Code	Size	Packaging	Notes
412641000	1 l	Glass bottle	
412642000	2.5 l	Glass bottle	

Toluene > RS - For preparative HPLC

RS

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 20° C ..... 0.865 ÷ 0.869
Refractive index at 20°C. 1.4931 ÷ 1.4991
Boiling point..... 110.1 ÷ 111.1 °C
Water (K.F.) ..... ≤200 ppm
Residue on evaporation ..... ≤5 ppm
Alcalinity..... ≤0.0002 meq/g
Assay (GLC) ..... ≥99.8 %
U.V. Transmittance
at 300 nm ..... ≥75 %
at 350 nm ..... ≥98 %

Code	Size	Packaging	Notes
488531	2.5 l	Glass bottle	

Toluene > RS - ATRASOL - For analysis of volatile traces

RS

Refractive index at 20°C..... 1.494 - 1.498
Water content (K.F.) ..... ≤ 50 mg/Kg
Colour ..... ≤ 10 Hazen
Free acid (as HCl) ..... ≤ 10 mg/Kg
Non volatile residue ..... ≤ 5 mg/Kg
Assay (GC) ..... ≥ 99.8 %
GC (FID) - NC Atrasol ..... Conform
GC-ECD.Individual peak (Lindane) .. ≤ 2 ng/l
Retention time trichlorobenzene to mirex
GC-FID.Individ. peak (hexadecane) .≤ 5 µg/l
Retention time range over toluène

Code	Size	Packaging	Notes
P0713216	1 l	Glass bottle	
P0713221	2.5 l	Glass bottle	

Toluene > RS - PESTIPUR - For pesticide analysis

RS

Refractive index at 20°C..... 1.494 - 1.498
Description ..... Clear liquid
Colour ..... ≤ 10 hazen
Identification ..... Positive
Water ..... ≤ 100 ppm
Acidity (HCl) ..... ≤ 10 ppm
Not volatile residue ..... ≤ 5 ppm
GC-ECD.Individual peak (Lindane) ..... ≤ 3 ng/l
Retention time trichlorobenzene to mirex
GC-NPD.Individual peak (Ethylparathion) ..... ≤ 3 ng/l
Assay (GLC) ..... ≥ 99.8 %
Retention time Atrazin to Coumaphos

Code	Size	Packaging	Notes
488591	1 l	Glass bottle	
488592	2.5 l	Glass bottle	

Toluene > RS - SPECTROSOL - For optical spectroscopy

RS

Description ..... Clear liquid
Colour (APHA) ..... ≤10
Identification ..... Positive
Density at 20° C ..... 0.865 ÷ 0.869
Refractive index at 20°C. 1.4931 ÷ 1.4991
Boiling point..... 110.1 ÷ 111.1 ° C
Acidity or alkalinity..... ≤0.0015 meq/g
Water (K.F.) ..... ≤100 ppm
Residue on evaporation ..... ≤5 ppm
Assay (GLC) ..... ≥99.8 %
U.V. Transmittance
at 285 nm ..... ≥10 %
at 290 nm ..... ≥55 %
at 300 nm ..... ≥80 %
at 310 nm ..... ≥90 %
at 320 nm ..... ≥93 %
at 350 nm ..... ≥98 %

Code	Size	Packaging	Notes
488601	1 l	Glass bottle	
488602	2.5 l	Glass bottle	

Toluene > RS - Anhydrous - For analysis

RS

Refractive index at 20°C..... 1.494 - 1.498
Water content (K.F.) ..... ≤ 50 mg/Kg
Non volatile residue ..... ≤ 10 mg/Kg
Colour ..... ≤ 10 Hazen
Assay (GC) ..... ≥ 99.8 %
Free acid (as HCl) ..... ≤ 10 mg/Kg
Benzene ..... ≤ 200 mg/Kg
Styrene ..... ≤ 10 mg/Kg
Ethylbenzene + xylene ..... ≤ 500 mg/Kg

Code	Size	Packaging	Notes
P0711010	200 ml	Bottle with septum	
P07110T10	200 ml	Bottle with septum	On molecular sieves 4A
P0711016	1 l	Glass bottle	
P0711021	2.5 l	Glass bottle	

Toluene > RPE - For analysis - ISO - ACS - Reag.Ph.Eur. - Reag.USP

RPE

Description ..... Clear colourless liquid
Identification (I.R.)..... Positive
Colour (APHA) ..... ≤10
Density at 20° C .....0.865 ÷ 0.869
Refractive index at 20°C.1.4931 ÷ 1.4991
Boiling point.....110.1 ÷ 111.1 ° C
Alcohol miscibility..... Complete
Chloroform miscibility ..... Complete
Diethyl ether miscib..... Complete

Acidity (benzoic acid) .....≤14 ppm
Alcalinity (NH3).....≤2 ppm
Water (K.F.) .....≤150 ppm
Residue on evaporation .....≤10 ppm
Ready carbonizable substances.....Conform
Benzene ..... ≤ 0.02 %
Tiophene .....≤1 ppm
Total sulphur .....≤3 ppm
Assay (GLC) ..... ≥99.8 %

Al .....≤0.5 ppm
B.....≤0.01 ppm
Ba .....≤0.1 ppm
Ca.....≤0.5 ppm
Cd.....≤0.01 ppm
Co.....≤0.01 ppm
Cr.....≤0.01 ppm
Cu.....≤0.01 ppm
Fe .....≤0.05 ppm

Mg .....≤0.1 ppm
Mn .....≤0.01 ppm
Ni.....≤0.01 ppm
Pb .....≤0.01 ppm
Sn .....≤0.1 ppm
Zn .....≤0.01 ppm
Styrene.....≤ 10 ppm
Ethyl benzene + xylene.....≤ 500 ppm

Code	Size	Packaging	Notes
488551	1 l	Glass bottle	
488555	2.5 l	Glass bottle	
488552	5 l	Aluminium can	
488557	24 kg	Metal drum	
488556	170 kg	Metal drum	

Toluene > RE - Pure

RE

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 20° C .....0.862 ÷ 0.872

Refractive index at 20°C.....1.491 ÷ 1.501
Boiling point.....109.9 ÷ 111.4 °C
Residue on evaporation .....≤50 ppm

Water (K.F.) .....≤300 ppm
Benzene ..... ≤ 0.02 %
Total sulphur .....≤100 ppm

Assay (GLC) ..... ≥99.5 %
Ethyl benzene + xylene.....≤ 750 ppm

Code	Size	Packaging	Notes
386002	1 l	Glass bottle	
386001	2.5 l	Glass bottle	
386003	23 kg	Metal drum	
386009	170 kg	Metal drum	

Toluene > RE - Pure - Low content in benzene

RE

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 20° C .....0.862 ÷ 0.872

Refractive index at 20°C.....1.491 ÷ 1.501
Boiling point.....109.9 ÷ 111.4 °C
Residue on evaporation .....≤50 ppm

Water (K.F.) .....≤300 ppm
Benzene ..... ≤ 0.02 %
Total sulphur .....≤100 ppm

Assay (GLC) ..... ≥99.5 %
Ethyl benzene + xylene.....≤ 750 ppm

Code	Size	Packaging	Notes
528231	5 l	Plastic tank	
528233	25 l	Metal drum	
528232	200 l	Metal drum	

Toluene in solution in hexane

Toluene soluzione in esano • Toluène en solution dans l'hexane • Tolueno en solución de hexano

$C_6H_5CH_3$
Molecular Weight: 92.14
CAS: 108-88-3

Classification transport
ONU: 1993
Transport Hazard class: 3
Packing group II

Danger
H225-H315-H361f-H336-H373-H411
P210-P241-P264-P273-P303+P361+P353-P304+P340-P403+P235

Toluene in solution in hexane > RS - For analysis according to Ph. Eur.Chapter 2.2.25

RS

Code	Size	Packaging	Notes
506462	10 ml	Sealed cuvette	
506463	100 ml	Glass bottle	

Toluene-d8

Toluene-d8 • Toluène-d8 • Tolueno-d8

$C_6D_5CD_3$
Molecular Weight: 100,19
CAS: 2037-26-5
EEC-N: 218-009-5

Classification transport
ONU: 1294
Transport Hazard class: 3
Packing group II

Danger
H225-H315-H361d-H336-H373-H304
P210-P241-P264-P303+P361+P353-P304+P340-P403+P235

Toluene-d8 > RS - For NMR - min 99.5%

RS

Code	Size	Packaging	Notes
P5399A	2 x 0.75 ml	Glass ampoule	
P5393A	5 ml	Glass ampoule	
P5395	25 ml	Glass bottle	

p-Toluene sulfonamide

p-Toluensolfonammide • p-Toluènesulfonamide • p-Toluenosulfonamida

$CH_3C_6H_4SO_2NH_2$
Molecular Weight: 171,22
CAS: 70-55-3
EEC-N: 200-741-1

p-Toluene sulfonamide > RPE - For analysis

RPE

Description ..... White crystalline powder Identification ..... Positive Melting point..... ~ 136 ° C Assay (ex nitrogen)..... ≥98 %

Code	Size	Packaging	Notes
488661	100 g	Plastic bottle	

p-Toluenesulfonic acid

Acido p-toluensolfonico monoidrato • Acide p-toluenesulfonique monohydrate • Acido p-toluenosulfónico

$CH_3C_6H_4SO_3H.H_2O$
Molecular Weight: 190,22
CAS: 6192-52-5
EEC-N: 203-180-0

Classification transport
ONU: 2585
Transport Hazard class: 8
Packing group III

Warning
H302-H315-H319-H335
P264-P271-P280-P304+P340-P305+P351+P338-P330

p-Toluenesulfonic acid > RPE - For analysis

RPE

Description ..... White crystals Melting point..... 102 ÷ 105 °C Acidity(Sulphuric acid) ..... ≤0.3 % Assay (oxidimetric) ..... ≥98.5 %
Identification ..... Positive Water (K.F.) ..... ≤13 % Fe .....≤50 ppm

Code	Size	Packaging	Notes
411436	500 g	Plastic bottle	
411432	20 kg	Plastic bucket	

p-Toluenesulfonic acid sodium salt

Acido p-toluensolfonico sale sodico • Acide p-toluenesulfonique sel sodique • Acido p-toluenosulfónico sal sódica

Synonym:
Sodium p-toluenesulfonate

$CH_3C_6H_4SO_3Na$
Molecular Weight: 194,19
CAS: 657-84-1
EEC-N: 211-522-5

Warning
H315-H319-H335
P264-P271-P280-P304+P340-P305+P351+P338-P312a

p-Toluenesulfonic acid sodium salt > RPE - For analysis

RPE

Description ..... White crystals Identification ..... Positive Assay .....≥ 97.5 %

Code	Size	Packaging	Notes
411504	100 g	Glass bottle	

p-Toluenesulfonylchloride

p-Toluensulfonil cloruro • p-Toluènesulfonyl chlorure • p-Toluenosulfonilocloruro

Synonym:
Tosyl chloride

$CH_3C_6H_4SO_2Cl$
Molecular Weight: 190,64
CAS: 98-59-9
EEC-N: 202-684-8

Classification transport
ONU: 3261
Transport Hazard class: 8
Packing group II

Danger
H314
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

p-Toluenesulfonylchloride > RPE - For analysis

RPE

Description ..... White crystalline powder
Identification ..... Positive
Melting point..... 69.0 ÷ 71.0 ° C
Assay (acidimetric) ..... ≥ 97.5 %

Code	Size	Packaging	Notes
488671	100 g	Glass bottle	
488672	1 kg	Plastic bottle	

p-Toluidine

p-Toluidina • p-Toluidine • p-Toluidina

Synonym:
4-Aminotoluene
4-Methylaniline

$CH_3C_6H_4NH_2$
Molecular Weight: 107,16
CAS: 106-49-0
EEC-N: 203-403-1

Classification transport
ONU: 3451
Transport Hazard class: 6.1
Packing group II

Danger
H301-H311-H331-H319-H317-H351-H400
P264-P273-P271-P304+P340-P305+P351+P338-P301+P310a

p-Toluidine > RE - Pure

RE

Description Yellow semitransparent crystals
Identification ..... Positive
Hydrocarbons..... Conform
Melting point..... 42.0 ÷ 45.0 ° C
Water (K.F.) ..... ≤0.5 %
Total chlorine ..... ≤50 ppm
Heavy metals (Pb)..... ≤5 ppm
Residue on ignition..... ≤50 ppm
Total sulphur ..... ≤10 ppm
o-Toluidine..... ≤300 ppm
p-Nitrotolluene ..... ≤10 ppm
Fe ..... ≤5 ppm
Assay (GLC) ..... 99 ÷ 100 %

Code	Size	Packaging	Notes
488804	100 g	Glass bottle	

Toluidine blue

Blu toluidina • Bleu de toluidine • Azul de toluidina

Synonym:
Basic Blue 17

$C_{15}H_{16}ClN_3S$
Molecular Weight: 305,83
CAS: 92-31-9
EEC-N: 202-146-2

Toluidine blue > RS - For microscopy - C.I. 52040

RS

Description ..... Black powder
Identification ..... Positive
Spettro (UV) ..... Conform

Code	Size	Packaging	Notes
429282	25 g	Glass bottle	

Dye for cytology-histochemistry

Tosyl chloride ▶ p-Toluenesulfonylchloride

Total-ionic-strength-adjustment buffer

Tampone forza ionica totale • Tampon pour ajustement de la force ionique totale • Tampón fuerza iónica total

Total-ionic-strength-adjustment buffer > RS - For analysis according to Ph. Eur. Chap. 4.1.3

RS

Code	Size	Packaging	Notes
614007700	1 l	Plastic bottle	Ref Ph.Eur 4007700
614008800	1 l	Plastic bottle	Total ionic strength adjustment buffer R1 Ref Ph.Eur 4008800

Triacetin

Triacetina • Triacétine • Triacetina

Synonym:
Glyceryl triacetate

$C_9H_{14}O_6$
Molecular Weight: 218,21
CAS: 102-76-1
EEC-N: 203-051-9

Triacetin > RPE - For analysis

RPE

Description ..... Clear colourless liquid
Identification ..... Positive
Acidity (acetic acid) ..... ≤100 ppm
Water ..... ≤0.1 %
Assay (GLC) ..... ≥99.0 %

Code	Size	Packaging	Notes
489152	1 l	Glass bottle	

Tributylphosphate

Tributilfosfato • Tributylphosphate • Tributilofosfato

Synonym:
TBP
TBA

$(C_4H_9O)_3PO$
Molecular Weight: 266,32
CAS: 126-73-8
EEC-N: 204-800-2

Warning
H302-H315-H351
P264-P280g-P308+P313-P330-P332+P313-P301+P312a

Tributylphosphate > RPE - For analysis

RPE

Description ..... Clear liquid
Identification ..... Positive
Refractive index at 20°C ..... 1.4230 ÷ 1.4250
Colour (APHA) ..... ≤ 50
Water (K.F.) ..... ≤ 0.2 %
Assay (GLC) ..... ≥ 99.0 %

Code	Size	Packaging	Notes
432054	500 ml	Glass bottle	

Trichloroacetic acid

Acido tricloroacetico • Acide trichloroacétique • Acido tricloroacetico

Synonym:
TCA

CCl_3COOH
Molecular Weight: 163,39
CAS: 76-03-9
EEC-N: 200-927-2

Classification transport
ONU: 1839
Transport Hazard class: 8
Packing group II

Danger
H314-H410
P264-P273-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Trichloroacetic acid > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description ..... Colourless crystals
Identification ..... Positive
Ready carbonizable substances ..... Conform
Residue on ignition ..... ≤ 0.03 %
Chloride ..... ≤ 20 ppm
Phosphate ..... ≤ 5 ppm
Nitrate ..... ≤ 20 ppm
Sulphate ..... ≤ 0.02 %
Heavy metals (Pb) ..... ≤ 20 ppm
Fe ..... ≤ 10 ppm
Assay (acidimetric) ..... ≥ 99.0 %

Code	Size	Packaging	Notes
411524	100 g	Glass bottle	
411525	250 g	Plastic bottle	
411527	1 kg	Plastic bottle	

Trichloroacetic acid > RE - Pure

RE

Description ..... Colourless crystals
Identification ..... Positive
Water ..... ≤ 0.3 %
Fe ..... ≤ 10 ppm
Assay (acidimetric) ..... ≥ 98.5 %

Code	Size	Packaging	Notes
307557	1 kg	Plastic bottle	
307558	5 kg	Plastic jar	

Trichloroacetic acid solution 20%

Acido tricloroacetico soluzione 20% • Acide trichloroacétique 20% • Acido tricloroacético solución 20%

Synonym: *TCA*

CCl_3COOH
Molecular Weight: 163,39
CAS: 76-03-9

Classification transport
ONU: 2564
Transport Hazard class: 8
Packing group II

Danger
H314-H335-H411
P260-P303+P361+P353-P305+P351+P338-P310-P405-P501a

Trichloroacetic acid solution 20% > RPE - For analysis

RPE

Description ..... Clear colourless liquid Assay (acidimetric) ..... 19.5 - 20.5 %

Code	Size	Packaging	Notes
411554000	1 l	Glass bottle	

For the determination of iron in the blood according Heimayer. For protein precipitation. Content is guaranteed for standardized vol umes at 20°C. Keep tightly closed

Trichloroacetic acid solution 3% in dichloromethane

Acido tricloroacetico soluzione 3% in diclorometano •
Acide trichloracétique solution 3% dans le dichlorométhane •
Acido tricloroacético solución 3% en diclorometano

Synonym: *TCA*

CCl_3COOH
Molecular Weight: 163,39
CAS: 76-03-9

Classification transport
ONU: 2922
Transport Hazard class: 8
Packing group II

Trichloroacetic acid solution 3% in dichloromethane > RPE - For analysis

RPE

Water content (K.F.) ..... ≤ 100 mg/Kg

Code	Size	Packaging	Notes
P0553574W	450 ml	Glass bottle	

1,2,4-Trichlorobenzene

1,2,4-Triclorobenzene • 1,2,4-Trichlorobenzène • 1,2,4-Triclorobenceno

$C_6H_3Cl_3$
Molecular Weight: 181,45
CAS: 120-82-1
EEC-N: 204-428-0

Classification transport
ONU: 2321
Transport Hazard class: 6.1
Packing group III

Warning
H302-H315-H410
P264-P273-P280g-P330-P332+P313-P301+P312a

1,2,4-Trichlorobenzene > RPE - For analysis

RPE

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 20° C ..... 1.451 ÷ 1.457
Refractive index at 20°C ..... 1.5687 ÷ 1.5747
Boiling point ..... 212.5 ÷ 213.5 ° C
Melting point ..... 16.0 ÷ 18.0 ° C
Water (K.F.) ..... ≤0.1 %
Residue on ignition ..... ≤10 ppm
Assay (GLC) ..... ≥98.5 %

Code	Size	Packaging	Notes
489382	1 l	Glass bottle	

Should be stored at not less than 20 °C

2.2.2-Trichlorethanol

2,2,2-Tricloroetanolo • 2.2.2-Trichloroéthanol • 2.2.2-Tricloroetanol

Cl_3CCH_2OH
Molecular Weight: 149,4
CAS: 115-20-8
EEC-N: 204-071-0

Danger
H302-H318-H336
P264-P271-P280-P304+P340-P305+P351+P338-P330

2.2.2-Trichlorethanol > RPE - For analysis

RPE

Description ..... Clear colourless liquid Identification ..... Positive Refractive index at 20°C. 1.4885 ÷ 1.4905 Assay (GLC) ..... ≥98.5 %

Code	Size	Packaging	Notes
415271	100 ml	Glass bottle	

Trichloromethane ▶ Chloroform

a b c d e f g h i j k l m n o p q r s t u v w x y z

Triethanolamine

Trietanolammina • Triéthanolamine • Trietanolamina

Synonym:
2,2',2''-Nitrilotriethanol
Tris(2-hydroxyethyl)amine

$(CH_2OHCH_2)_3N$
Molecular Weight: 149,19
CAS: 102-71-6
EEC-N: 203-049-8

Triethanolamine > RPE - For analysis

RPE

Description ..... Yellowish liquid
Identification ..... Positive
Water miscibility..... Conform
Alcohol miscibility..... Complete
Density at 20° C ..... 1.120 ÷ 1.128
Refractive index at 20°C. 1.4797 ÷ 1.4907
Melting point..... 20.0 ÷ 22.0 ° C
Water (K.F.) ..... ≤0.3 %
Chloride..... ≤10 ppm
Diethanolamine ..... ≤1.5 %
Monoethanolamine..... ≤0.5 %
Heavy metals (Pb)..... ≤2 ppm
Residue on ignition..... ≤50 ppm
Sulphate..... ≤20 ppm
Fe ..... ≤2 ppm
Assay (non-aqueos medium)..... ≥98 %

Code	Size	Packaging	Notes
489504	1 l	Glass bottle	
489501	30 kg	Metal drum	

Keep in a dark place

Triethanolamine > ERBApharm - According to pharmacopoeia : FU-Ph.Eur.

ERBApharm

Description ..... Clear colourless liquid or yellowish
Identification ..... Positive
Identification B ..... pass test
Identification C ..... Pass test
Density at 20° C ..... 1.120 ÷ 1.130
Refractive index at 20°C..... 1.482 ÷ 1.485
Water (K.F.) ..... ≤ 1.0 %
Sulphated ash ..... ≤ 0.1 %
Diethanolamine ..... ≤ 0.5 %
Monoethanolamine..... ≤ 0.1 %
Related substances ..... ≤ 1.0 %
Appearance of solution .....Conform Ph.Eur.
Total basis .....99.0 ÷ 103.0 % anidro
Heavy metals (Pb)..... ≤ 10 ppm
N-Nitrosodiethanolamine ..... ≤ 24 ppb

Code	Size	Packaging	Notes
386301	1 l	Glass bottle	
386303	2.5 l	Glass bottle	
386304	30 kg	Metal drum	
386305	220 kg	Metal drum	

Keep in a dark place

Triethylamine

Trietilammina • Triéthylamine • Trietilamina

Synonym:
N,N-Diethylethanamine

$(C_2H_5)_3N$
Molecular Weight: 101,19
CAS: 121-44-8
EEC-N: 204-469-4

Classification transport
ONU: 1296
Transport Hazard class: 3
Packing group II

Danger
H225-H302-H311-H332-H314-H335
P210-P241-P264-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

Triethylamine > RS - For HPLC - Isocratic Grade

RS

Clear,colourless liquid..... Conform
Water content (K.F.) ..... ≤ 0.05 % (m/m)
Residue on evaporation ..... ≤ 0.001 % (m/m)
Assay (GC) ..... ≥ 99.7 %
UV transmittance at 250nm (0.1M)..... ≥ 10 %
UV transmittance at 254nm (0.1M)..... ≥ 75 %

Code	Size	Packaging	Notes
489631	1 l	Glass bottle	
489633	2.5 l	Glass bottle	

Triethylamine > RPE - For analysis

RPE

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 20° C ..... 0.725 ÷ 0.729
Refractive index at 20°C. 1.3983 ÷ 1.4023
Boiling point..... 89.0 ÷ 90.0 °C
Residue on evaporation ..... ≤100 ppm
Assay (GLC) ..... ≥99.5 %

Code	Size	Packaging	Notes
489556	1 l	Glass bottle	

Triethylamine > RE - Pure

RE

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 20° C ..... 0.724 ÷ 0.730
Refractive index at 20°C..... 1.3953 ÷ 1.4053
Boiling point..... 88.5 ÷ 90.5 °C
Residue on evaporation ..... ≤0.02 %
Assay (GLC) ..... ≥99.5 %
Water (K.F.) ..... ≤ 0.1 %
Diethylamine..... ≤ 0.1 %

Code	Size	Packaging	Notes
386601	1 l	Glass bottle	
386603	5 l	Plastic tank	
386602	20 kg	Plastic drum	

Triethylene glycol

Glicol trietilenico • Glycol triéthylénique • Trietilenglicol

Synonym: *Triglycol*

$(CH_2OHCH_2OCH_2)_2$
Molecular Weight: 150,18
CAS: 112-27-6
EEC-N: 203-953-2

Warning
H315-H319-H335
P264-P271-P280-P304+P340-P305+P351+P338-P312a

Triethylene glycol > RPE - For analysis

RPE

Description ..... Clear colourless liquid	Density at 20° C ..... 1.123 ÷ 1.131	Chloride ..... ≤ 2 ppm	Sulphate ..... ≤ 20 ppm
Identification ..... Positive	Refractive index at 20°C. 1.4553 ÷ 1.4603	Heavy metals (Pb) ..... ≤ 2 ppm	Fe ..... ≤ 2 ppm
Water miscibility ..... Conform	Water (K.F.) ..... ≤ 0.2 %	Peroxides (H2O2) ..... ≤ 50 ppm	Assay (GLC) ..... ≥ 98 %
Alcohol miscibility ..... Complete	Acidity (acetic acid) ..... ≤ 60 ppm	Residue on ignition ..... ≤ 30 ppm	

Code	Size	Packaging	Notes
454111	1 l	Glass bottle	
454112	30 kg	Plastic drum	

Trifluoroacetic acid

Acido trifluoroacetico • Acide trifluoroacétique • Acido trifluoroacético

Synonym: *TCA*

CF_3COOH
Molecular Weight: 114,02
CAS: 76-05-1
EEC-N: 200-929-3

Classification transport
ONU: 2699
Transport Hazard class: 8
Packing group I

Danger
H332-H314-H412
P264-P273-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Trifluoroacetic acid > RS - For LC/MS

RS

Description ..... Clear colourless liquid	Water (K.F.) ..... ≤ 0.05 %	Fluoride ..... ≤ 50 ppm	Assay (acidimetric) ..... ≥ 99.9 %
Identification ..... Positive	Chloride ..... ≤ 10 ppm	Sulphate ..... ≤ 10 ppm	Suitability ..... LC-MS Tested

Code	Size	Packaging	Notes
411541	10 x 1 ml	Ampoule	
411542	10 x 2.5ml	Ampoule	
411543	50 ml	Plastic bottle	

Eluent phase additive for LC-MS

Trifluoroacetic acid > RS - SPECTROSOL - For optical spectroscopy

RS

Appearance ..... Clear colourless liquid	Water content (K.F.) ..... ≤ 0.05 % m/m	UV Absorbance at 280 nm ..... ≤ 0.05 AU	UV Absorbance at 320 nm ..... ≤ 0.03 AU
Identification (IR) ..... Conform	UV Absorbance at 260 nm ..... ≤ 1 AU	UV Absorbance at 290 nm ..... ≤ 0.04 AU	Content (Acidimetry) .. 99.9 - 101.0 % m/m
Density d20/4 ..... 1.480 - 1.500	UV Absorbance at 270 nm ..... ≤ 0.1 AU	UV Absorbance at 300 nm ..... ≤ 0.03 AU	Purity (GC) ..... ≥ 99 %

Code	Size	Packaging	Notes
P0082746	1 l	Glass bottle PVC coated	
P0082747	2.5 l	Glass bottle PVC coated	

Trifluoroacetic acid > RS - For peptide synthesis

RS

Identification (IR) ..... Conform	Colour ..... ≤ 10 Hazen	Content (Acidimetry) ..... ≥ 99.9 % m/m	Sulphate (SO4--) ..... ≤ 20 mg/Kg
Density d20/4 ..... 1.480 - 1.500	Water content (K.F.) ..... ≤ 500 mg/Kg	Chloride (Cl-) ..... ≤ 20 mg/Kg	Fluoride ..... ≤ 50 mg/Kg

Code	Size	Packaging	Notes
P0082103	100 ml	Plastic bottle	
P0082147	2.5 l	Glass bottle PVC coated	

Trifluoroacetic acid > RPE - For analysis

RPE

Description ..... Clear colourless liquid	Water (K.F.) ..... ≤ 0.05 %	Sulphate ..... ≤ 10 ppm
Identification ..... Positive	Assay (acidimetric) ..... ≥ 99.9 %	

Code	Size	Packaging	Notes
411561	100 ml	Glass bottle	
411564	250 ml	Glass bottle	

Trifluoroacetic acid > RE - Pure

RE

Identification (IR).....Conform
Density d20/4 .....1.480 - 1.500
Colour ..... ≤ 10 Hazen
Water content (K.F.) .....≤ 1000 mg/Kg
Content (Acidimetry) ..... ≥ 99 % m/m
Chloride (Cl-).....≤ 20 mg/Kg
Sulphate (SO4--) .....≤ 20 mg/Kg
Fluoride .....≤ 50 mg/Kg

Code	Size	Packaging	Notes
P0080247	2.5 l	Glass bottle PVC coated	
P0080212	1 kg	Glass bottle PVC coated	
P0080297	30 kg	Plastic bucket	

Trifluoroacetic acid-d

Acido trifluoroacetico-d • Acide trifluoroacétique-d • Acido trifluoroacético-d

CF_3COOD
Molecular Weight: 115,03
CAS: 599-00-8
EEC-N: 209-961-2

Classification transport
ONU: 2699
Transport Hazard class: 8
Packing group I

Danger
H332-H314-H412
P264-P273-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Trifluoroacetic acid-d > RS - For NMR - min 99.5%

RS

Code	Size	Packaging	Notes
P5419A	2 x 0.75 ml	Glass ampoule	
P5413A	5 ml	Glass ampoule	

Trifluoroacetic anhydride

Anidride trifluoroacetica • Anhydride trifluoroacétique • Anhídrido trifluoroacético

Synonym:
TFAA

$(CF_3CO)_2O$
Molecular Weight: 210,04
CAS: 407-25-0
EEC-N: 206-982-9

Classification transport
ONU: 3265
Transport Hazard class: 8
Packing group I

Danger
H301-H314
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Trifluoroacetic anhydride > RPE - For analysis

RPE

Description ..... Clear colourless liquid
Identification ..... Positive
Density at 20° C .....1.511 ÷ 1.515
Residue on evaporation .....≤10 ppm
Assay (as anhydride).....≥98 %

Code	Size	Packaging	Notes
422225	500 ml	Glass bottle	

For derivatization

1,1,1-Trifluoroacetyltrifluoroacetone

1,1,1-Trifluoroacetiltrifluoroacetone • 1,1,1-Trifluoroacétyltrifluoroacétone • 1,1,1-Trifluoroacetiltrifluoroacetona

Synonym:
Hexafluoroacetylacetone
1,1,1,5,5,5-Hexafluoro-2,4-pentanedione

$C_5H_2F_6O_2$
Molecular Weight: 208,06
CAS: 1522-22-1
EEC-N: 216-191-0

Classification transport
ONU: 2920
Transport Hazard class: 8
Packing group II

Danger
H226-H314
P210-P241-P264-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

1,1,1-Trifluoroacetyltrifluoroacetone > RPE - For analysis

RPE

Description ..... Clear colourless liquid
Identification ..... Positive
Assay (GLC) ..... 98 ÷ 100 %

Code	Size	Packaging	Notes
490162	10 ml	Glass bottle	

Trifluoroethanol-d2

Trifluoroetanolo-d2 • Trifluoroéthanol-d2 • Trifluoroetanol-d2

Synonym:
2,2,2-Trifluoroethanol-d2

CF_3CD_2OH
Molecular Weight: 103,06
CAS: 77253-67-9

Classification transport
Transport Hazard class: NC

Trifluoroethanol-d2 > RS - For NMR - min 99%

RS

Code	Size	Packaging	Notes
P5449A	2 x 0.75 ml	Glass ampoule	

1,2,3-Trihydroxybenzene ▶ Pyrogallol

1,3,5-Trihydroxybenzene ▶ Phloroglucinol

3,4,5-Trihydroxybenzoic acid monohydrate ▶ Gallic acid monohydrate

2,4,6-Trihydroxypyrimidine ▶ Barbituric acid

Triiodomethane ▶ Iodoform

Trimethylamine hydrochloride

Trimetilammina cloridrato • Triméthylamine chlorhydratée • Trimetilamina clorhidrato

Synonym:
Trimethylammonium chloride

$(CH_3)_3N.HCl$
Molecular Weight: 95,57
CAS: 593-81-7
EEC-N: 209-810-0

Trimethylamine hydrochloride > RPE - For analysis

RPE

Description ..... White crystals Identification ..... Positive Assay (non-aqueos medium) ..... ≥ 98 %

Code	Size	Packaging	Notes
489803	50 g	Glass bottle	

Trimethylcetylammonium bromide

Trimetilcetilammonio bromuro • Triméthylcétylammonium bromure • Trimetilcetilamonio bromuro

Synonym:
Hexadecyltrimethylammonium bromide
CTAB

$CH_3(CH_2)_{15}N(CH_3)_3Br$
Molecular Weight: 364,46
CAS: 57-09-0
EEC-N: 200-311-3

Classification transport
ONU: 3077
Transport Hazard class: 9
Packing group III

Danger
H302-H315-H318-H335-H410
P264-P273-P271-P304+P340-
P305+P351+P338-P330

Trimethylcetylammonium bromide > RPE - For analysis

RPE

Description ..... White crystalline powder Identification ..... Positive Assay (non-aqueos medium) ..... ≥ 99.0 %

Code	Size	Packaging	Notes
489833	50 g	Plastic bottle	
489831	500 g	Plastic bottle	
489834	25 kg	Plastic bucket	

Trimethylcetylammonium p-toluenesulfonate

Trimetilcetilammonio p-toluensolfonato • Triméthylcétylammonium p-toluènesulfonate • Trimetilcetilamonio p-toluensulfonato

Synonym:
Hexadecyltrimethylammonium p-toluenesulfonate
Cetyltrimethylammonium p-toluenesulfonate

$CH_3C_6H_4SO_3N(CH_3)_3(CH_2)_{15}CH_3$
Molecular Weight: 455,74
CAS: 138-32-9
EEC-N: 205-324-8

Warning
H302-H312-H332-H315-H319-H335
P264-P271-P280-P304+P340-P305+P351+P338-P330

Trimethylcetylammonium p-toluenesulfonate > RE - Pure

RE

Description ..... White powder
Identification ..... Positive
Soluz. in acqua (1:200) ..... Complete
pH sol. 1% ..... 5.0 ÷ 8.0
Assay ..... ≥ 99.0 %

Code	Size	Packaging	Notes
387207	1 kg	Plastic bottle	

2,2,4-Trimethylpentane ▶ Isooctane

n-Trimethylsilylacetamide

n-Trimetilsililacetammide • n-Triméthylsilylacétamide • n-Trimetilsililacetamida

Synonym:
TMS acetamide

$CH_3CONHSi(CH_3)_3$
Molecular Weight: 131,25
CAS: 13435-12-6
EEC-N: 236-565-7

Classification transport
ONU: 1325
Transport Hazard class: 4.1
Packing group II

Danger
H228
P210-P370+P378a

n-Trimethylsilylacetamide > RPE - For analysis

RPE

Description ..... White crystalline mass
Identification ..... Positive
Melting point ..... 38 ÷ 43 ° C

Code	Size	Packaging	Notes
489951	25 g	Glass bottle	

For derivatization

3-Trimethylsilylpropionic acid sodium salt-d4

3-Trimetilsililpropionato sodico-d4 • 3-Triméthylsilylpropionate-d4 • 3-Trimetilsililpropionate-d4

Synonym:
3-(Trimethylsilyl)propionic-2,2,3,3-d4 acid sodium salt

$C_6H_9D_4NaO_2Si$
Molecular Weight: 172,27
CAS: 24493-21-8
EEC-N: 246-286-2

3-Trimethylsilylpropionic acid sodium salt-d4 > RS - For NMR

RS

Code	Size	Packaging	Notes
P5462	1 g	Glass bottle	

1,3,7-Trimethylxanthine ▶ Caffeine anhydrous

2,4,6-Trinitrophenol ▶ Picric acid solution

Trioctylphosphine oxide

Triottilfosfina ossido • Trioctylphosphine oxyde • Trioctilfosfina óxido

Synonym:
TOPO

$(C_8H_{17})_3PO$
Molecular Weight: 386,65
CAS: 78-50-2
EEC-N: 201-121-3

Warning
H315-H319
P264-P280-P305+P351+P338-P332+P313-P337+P313-P302+P352a

Trioctylphosphine oxide > RPE - For analysis

RPE

Description ..... White crystals
Identification ..... Positive
Melting point ..... 52 ÷ 57 °C
Assay (GLC) ..... ≥ 98.5 %

Code	Size	Packaging	Notes
489581	50 g	Glass bottle	

Triphenylphosphine
Trifenilfosfina • Triphénylphosphine • Trifenilfosfina

Synonym:
Phosphorustriphenyl

$(C_6H_5)_3P$
Molecular Weight: 262,29
CAS: 603-35-0
EEC-N: 210-036-0

Classification transport
ONU: 3464
Transport Hazard class: 6.1
Packing group III

Warning
H302-H317-H410
P264-P273-P261-P280g-P330-P301+P312a

Triphenylphosphine > RPE - For analysis
RPE

Description ..... White powder | Identification ..... Positive | Melting point..... 80.0 ÷ 82.0 ° C | Assay (GLC) ..... ≥98 %

Code	Size	Packaging	Notes
489591	100 g	Glass bottle	

2,3,5-Triphenyltetrazolium chloride
2,3,5-Trifeniltetrazolo cloruro • 2,3,5-Triphényltétrazolium chlorure • 2,3,5-Trifeniltetrazolio cloruro

Synonym:
TPTZ
Tetrazolium Red

$(C_6H_5)_3CN_4Cl$
Molecular Weight: 334,81
CAS: 298-96-4
EEC-N: 206-071-6

Warning
H315-H319-H335
P264-P271-P304+P340-P305+P351+P338-P312a-P332+P313

2,3,5-Triphenyltetrazolium chloride > RPE - For analysis
RPE

Description ..... White yellowish powder | Loss on drying ..... ≤9 % | Glucose sensitivity ..... ≥0.05 (mg/ml)
Identification ..... Positive | Residue on ignition ..... ≤0.5 % | Assay (non-aqueos medium) ..... 99 ÷ 100 % s s

Code	Size	Packaging	Notes
489651	10 g	Glass bottle	

2,4,6-Tri-(2-pyridyl)-s-triazine
2,4,6-(Tripiridile-2)-s-triazina • 2,4,6-(Tripyridyl-2)s-triazine • 2,4,6-(Tripiridilo-2)s-triacina

Synonym:
TPTZ

$C_{18}H_{12}N_6$
Molecular Weight: 312,33
CAS: 3682-35-7
EEC-N: 222-965-9

2,4,6-Tri-(2-pyridyl)-s-triazine > RPE - For analysis
RPE

Description ..... Yellow crystalline powder | Melting point..... 249.0 ÷ 251.0 ° C | Iron sensitivity ..... ≥0.1 µg/ml
Identification ..... Positive | Residue on ignition ..... ≤0.1 %

Code	Size	Packaging	Notes
489881	1 g	Glass bottle	

For the spectrophotometric determination of Iron

Tris (hydroxymethyl)-aminomethane
Tris idrossimetilamminometano • Tris(hydroxyméthyl)aminométhane • Tris (hidroximetil)aminometano

Synonym:
Tris base

$NH_2C(CH_2OH)_3$
Molecular Weight: 121,14
CAS: 77-86-1
EEC-N: 201-064-4

Warning
H315-H319
P264-P280-P305+P351+P338-P332+P313-P337+P313-P362

Tris (hydroxymethyl)-aminomethane > RS - For pHmetry
RS

Description ..... White crystalline powder | Solution colour ..... ≤25 APHA | Residue on ignition ..... ≤0.1 % | Assay (alkalimetric)..... ≥99.3 % s.s.
Identification ..... Positive | Melting point..... ≥168.5 °C | Heavy metals (Pb)..... ≤5 ppm
pH solution 5% ..... 10.0 ÷ 11.5 | Water (K.F.) ..... ≤0.5 % | Absorbance ..... ≤0.2

Code	Size	Packaging	Notes
489973	1 kg	Plastic bottle	
489971	25 kg	Plastic bucket	

Tris (hydroxymethyl)-aminomethane > RPE - For analysis

RPE

Description ..... White crystalline powder
Identification ..... Positive
Melting point..... 168 ÷ 172 ° C
pH (1M a 25 °C)..... 10.5 ÷ 11.5
Loss on drying ..... ≤0.5 %
Water-insoluble matter .....≤100 ppm
Heavy metals (Pb).....≤2 ppm
Residue on ignition.....≤500 ppm
Cu.....≤1 ppm
Fe .....≤1 ppm
Assay (alkalimetric)..... ≥99.5 %

Code	Size	Packaging	Notes
489981	100 g	Plastic bottle	
489984	500 g	Plastic bottle	
489983	1 kg	Plastic bottle	
489982	10 kg	Carton drum	
489985	25 kg	Plastic bucket	

Tris (hydroxymethyl)-aminomethane > RE - Pure

RE

Description ..... White crystalline powder
Identification ..... Positive
Melting point..... 168 ÷ 172 ° C
pH (1M a 25 °C)..... 10.5 ÷ 11.5
Loss on drying ..... ≤1 %
Water-insoluble matter .....≤100 ppm
Heavy metals (Pb).....≤2 ppm
Residue on ignition.....≤500 ppm
Fe .....≤2 ppm
Assay (alkalimetric)..... ≥99 %

Code	Size	Packaging	Notes
313432	1 kg	Plastic bottle	
313431	25 kg	Plastic bucket	

Tris(hydroxymethyl)aminomethane solution

Tris idrossimetilamminometano soluzione • Tris(hydroxyméthyl)aminométhane solution • Tris (hidroximetil)aminometano solución

Tris(hydroxymethyl)aminomethane solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611094201	100 ml	Plastic bottle	Ref Ph.Eur 1094201

Tris(hydroxymethyl)aminomethane buffer solution pH 8.1

Tampone tris(idrossimetil)aminometano tampn soluzione pH 8.1 • Tampon tris(hydroxyméthyl)aminométhane pH 8.1 • Tris (hidroximetil) aminometano solución tampón pH 8.1

Tris(hydroxymethyl)aminomethane buffer solution pH 8.1 > RS - For analysis according to Ph. Eur. Chap. 4.1.3

RS

Code	Size	Packaging	Notes
614006200	1 l	Plastic bottle	Ref Ph.Eur 4006200

Tris(hydroxymethyl)aminomethane-EDTA buffer solution pH 8.4

Tampone tris(idrossimetil)aminometano - EDTA pH 7.4 • Tampon tris(hydroxyméthyl)aminométhane-EDTA pH 8.4 • Tampón tris(hidroximetil) aminometano - EDTA pH 7.4

Tris(hydroxymethyl)aminomethane-EDTA buffer solution pH 8.4 > RS - For analysis according to Ph. Eur. Chap. 4.1.3

RS

Code	Size	Packaging	Notes
614006600	1 l	Plastic bottle	Ref Ph.Eur 4006600

Tris (hydroxymethyl)-aminomethane hydrochloride

Tris idrossimetilamminometano cloridrato • Tris(hydroxyméthyl)aminométhane chlorhydraté • Tris (hidroximetil)aminometano hidrocloruro

Synonym:
2-Amino-2(hydroxymethyl)1,3-propanediol hydrochloride

$NH_2C(CH_2OH)_3.HCl$
Molecular Weight: 157,6
CAS: 1185-53-1
EEC-N: 214-684-5

Warning
H315-H319-H335
P264-P271-P280-P304+P340-P305+P351+P338-P312a

Tris (hydroxymethyl)-aminomethane hydrochloride > RPE - For analysis

RPE

Description ..... White crystals
Identification ..... Positive
Pb ..... ≤ 5 ppm
As ..... ≤ 10 ppm
Ba ..... ≤ 1 ppm
Ca ..... ≤ 10 ppm
Cu ..... ≤ 1 ppm
Fe ..... ≤ 2 ppm
Mg ..... ≤ 10 ppm
Mn ..... ≤ 1 ppm
Assay ..... ≥ 99 %
Absorbance (1M acq. 280 nm) ..... ≤ 0.05
Melting point ..... 150 ÷ 154 °C

Code	Size	Packaging	Notes
479911	100 g	Plastic bottle	
479912	500 g	Plastic bottle	
479913	1 kg	Plastic bottle	

Tris(hydroxymethyl)aminomethane sodium chloride buffer solution pH 7.4

Tampone tris(idrossimetil)aminometano sodio cloruro pH 7.4 • Tampon tris(hydroxyméthyl)aminométhane-chlorure de sodium pH 7.4 • Tampón tris(hidroximetil)aminometano sodio cloruro pH 7.4

Tris(hydroxymethyl)aminomethane sodium chloride buffer solution pH 7.4 > RS - For analysis according to Ph. Eur. Chap. 4.1.3

RS

Code	Size	Packaging	Notes
614004900	1 l	Plastic bottle	Ref Ph.Eur 4004900

Triton© X100 solution

Triton© X100 soluzione • Triton© X100 solution • Triton© X100 solución

Synonym:
4-(1,1,3,3-Tetramethylbutyl)phenyl-polyethylene glycol

$4\text{-}(C_8H_{17})C_6H4(OCH_2CH_2)nOH$
CAS: 9002-93-1

Danger
H302-H318-H412
P264-P273-P280-P305+P351+P338-P330-P301+P312a

Triton© X100 solution > RE - Pure

RE

Clear to light unclear liquid ..... Conform
Appearance ..... Without particles in suspension
Density d20/4 ..... 1.055 - 1.075
Water content (K.F.) ..... ≤ 2000 mg/Kg
Colour ..... ≤ 60 Hazen
Cloud point (1% in water) ..... 63 - 69 °C

Code	Size	Packaging	Notes
P0120041	10 l	Plastic tank	

Tropaeolin O

Tropeolina O • Tropéoline O • Tropeolina O

Synonym:
Tropaeolin O sodium salt
Acid Orange 6

$C_{12}H_9N_2NaO_5S$
Molecular Weight: 316,27
CAS: 547-57-9
EEC-N: 208-924-8

Warning
H315-H319
P264-P280g-P280i-P305+P351+P338-P332+P313-P337+P313

Tropaeolin O > RPE - For analysis - C.I. 14270

RPE

Description ..... Polvere marrone arancio
Identification ..... Positive
Loss on drying ..... ≤15 %
Colour change ..... giallo arancio
pH range ..... 11.1 - 12.7

Code	Size	Packaging	Notes
490001	10 g	Glass bottle	
490002	25 g	Glass bottle	

Tropaeolin O solution 0.1%

Tropeolina O soluzione 0,1% • Tropéoline O solution 0.1% • Tropeolina O solución 0.1%

Synonym:
Tropaeolin O sodium salt
Acid Orange 6

$C_{12}H_9N_2NaO_5S$
Molecular Weight: 316,27
CAS: 547-57-9

Tropaeolin O solution 0.1% > RPE - For analysis

RPE

Description ..... Orange clear liquid
Identification ..... Positive
Sensitivity (pH 11-13) ..... Conform
Colour change ..... giallo arancio
pH range ..... 11.1 - 12.7

Code	Size	Packaging	Notes
E490056	500 ml	Bottle	

Tubes 10 mm

Tubi 10 mm • Tubes 10 mm • Tubos 10 mm

Classification transport
Transport Hazard class: NC

Tubes 10 mm > RS - For NMR

RS

Code	Size	Packaging	Notes
P588100UP	5 pc	Box	Type10UP (Ultra Precision) Length 178 mm

Tubes 5 mm

Tubi 5 mm • Tubes 5 mm • Tubos 5 mm

Classification transport
Transport Hazard class: NC

Tubes 5 mm > RS - For NMR

RS

Code	Size	Packaging	Notes
P588500HP	5 pc	Box	Type 5HP (High Precision) Length 178 mm
P588500UP	5 pc	Box	Type 5UP (Ultra Precision) Length 178 mm
P588501HP	5 pc	Box	Type 5HP (High Precision) Length 203 mm
P588505	5 pc	Box	Amber Type 5P (Precision) Length 178 mm
P588500TT	50 pc	Box	Type 5TA (Routine) Length 178 mm

Tungsten standard solution

Tungsteno standard soluzione • Tungstène solution standard • Tungsteno, solución patrón

Classification transport
ONU: 1760
Transport Hazard class: 8
Packing group III

Tungsten standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505932	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Ammonium hydroxyde
505935	100 ml	Plastic bottle	conc. 100 ppm. Matrix : Ammonium hydroxyde

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Tungsten standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
504051	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : 4% ammonia
504055	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : 10% ammonia
504058	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Water
504053	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : 4% ammonia
504057	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : 10% ammonia

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Tungsten standard solution > RS - Standard solution for AAS

RS

Code	Size	Packaging	Notes
507765	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid and hydrofluoric acid
507521	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid and hydrofluoric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Tungstic acid

Acido tungstico • Acide tungstique • Acido túngstico

H_2WO_4
Molecular Weight: 249,86
CAS: 7783-03-1
EEC-N: 231-975-2

Tungstic acid > RPE - For analysis

RPE

Description ..... Yellow-greenish powder
Identification ..... Positive
Loss on ignition ..... 6 ÷ 8 %
Fe ..... ≤ 20 ppm
Assay (WO3) ..... ≥ 92.0 % t.q.
Al ..... ≤ 10 ppm
As ..... ≤ 10 ppm
Cu ..... ≤ 5 ppm
Mo ..... ≤ 50 ppm
Na ..... ≤ 30 ppm
Si ..... ≤ 30 ppm
Ti ..... ≤ 10 ppm

Code	Size	Packaging	Notes
411628	250 g	Plastic bottle	
411621	1 kg	Plastic bottle	

Turk's reagent

Turk reattivo • Réactif de Turk • Türk reactivo

HEU210

Turk's reagent > RS - For microscopy

RS

Description ..... Purple liquid
Identification ..... Positive

Code	Size	Packaging	Notes
E490451	500 ml	Plastic bottle	

CE IVD ***Dye for hematology***

L(-)Tyrosine

L(-)Tirosina • L(-)Tyrosine • L(-)Tirosina

Synonym:
(S)-2-Amino-3-(4-hydroxyphenyl)propionic acid

$4\text{-}HOC_6H4CH_2CHNH_2COOH$
Molecular Weight: 181,19
CAS: 60-18-4
EEC-N: 200-460-4

L(-)Tyrosine > RPE - For analysis

RPE

Description ..... White or yellowish powder
Identification ..... Positive
Potere rotator. specif.(C=4 in HCl N/1). -9.6 ÷ -11.6 °
Loss on drying ..... ≤0.2 %
Ammonium ..... ≤300 ppm
Chloride ..... ≤300 ppm
Total phosphorus ..... ≤10 ppm
Heavy metals (Pb) ..... ≤10 ppm
Residue on ignition ..... ≤500 ppm
Total sulphur ..... ≤250 ppm
Fe ..... ≤10 ppm
Assay (non-aqueos medium) ..... ≥99 %

Code	Size	Packaging	Notes
488152	25 g	Glass bottle	

Uranine ▶ Fluorescein sodium salt

Uranium standard solution

Uranio standard soluzione • Uranium solution standard • Uranio, solución patrón

Classification transport
ONU: 3264
Transport Hazard class: 8
Packing group III

Danger
H314-H319
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Uranium standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505922	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505923	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Uranium standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
504031	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
504035	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
504033	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
504037	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Urea

Urea • Urée • Urea

Synonym:
Carbamide
Carbonyldiamide

$(NH_2)_2CO$
Molecular Weight: 60,06
CAS: 57-13-6
EEC-N: 200-315-5

Urea > RPE - For analysis - ACS

RPE

Description ..... White crystalline powder
Identification ..... Positive
Melting point..... 132 ÷ 135 °C
Chloride..... ≤ 5 ppm
Sulphate..... ≤ 10 ppm
Water-insoluble matter ..... ≤ 100 ppm
Heavy metals (Pb)..... ≤ 10 ppm
Residue on ignition..... ≤ 100 ppm
Fe ..... ≤ 10 ppm
Assay (non-aqueos medium) . 99.0 ÷ 100.5 %

Code	Size	Packaging	Notes
490757	100 g	Plastic bottle	
490758	500 g	Plastic bottle	
490759	1 kg	Plastic bottle	
490751	25 kg	Sack	

Urea > RE - Pure

RE

Description ..... White granules
Identification ..... Positive
Melting point..... 130 ÷ 135 °C
Ammoniacal salts..... ≤0.2 %
Water-insoluble matter ..... ≤200 ppm
Fe ..... ≤20 ppm

Code	Size	Packaging	Notes
387807	1 kg	Plastic bottle	
387809	5 kg	Plastic jar	
387801	50 kg	Sack	

n-Valeric acid

Acido valerico • Acide n-valérique • Acido valérico

Synonym:
Pentanoic acid

$CH_3(CH_2)_3COOH$
Molecular Weight: 102,13
CAS: 109-52-4
EEC-N: 203-677-2

Classification transport
ONU: 3265
Transport Hazard class: 8
Packing group III

Danger
H314-H412
P264-P273-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

n-Valeric acid > RPE - For analysis

RPE

Description .....Clear colourless,very slightly yellow liq.
Identification ..... Positive
Refractive index at 20°C..... 1.4036 ÷ 1.4136
Water .....≤ 0.1 %
Assay (GLC) .....≥ 98.5 %

Code	Size	Packaging	Notes
411775	500 ml	Glass bottle	

Vanadium standard solution

Vanadio standard soluzione • Vanadium solution standard • Vanadio, solución patrón

Classification transport
ONU: 3264
Transport Hazard class: 8
Packing group II

Vanadium standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2

RS

Code	Size	Packaging	Notes
615003300	100 ml	Plastic bottle	A 1 g/l solution Ref Ph.Eur 5003300

Vanadium standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505927	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505928	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid
505929	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Vanadium standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
504041	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
504045	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
504043	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
504047	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Vanadium standard solution > RS - Standard solution for AAS

RS

Description ..... Yellow clear liquid
Identification ..... Positive
Titration factor..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
507766	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
E497675	100 ml	Glass bottle	conc. 1.000 ppm Matrix : Sulfuric acid
504187	500 ml	Plastic bottle	conc. 1000 ppm Matrix : Nitric acid
E497671	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Sulfuric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Vanadium standard solution > RS - NORMEX - Concentrated solution for AAS

RS

Description ..... Blue clear liquid
Identification ..... Positive
Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
491091		Plastic vial	conc. 1.000 ppm Matrix : Nitric acid - Volume : 50 ml

Vanadium (V) oxide

Vanadio pentossido • Vanadium pentaoxyde • Vanadio pentóxido

Synonym:
Vandia

V_2O_5
Molecular Weight: 181,88
CAS: 1314-62-1
EEC-N: 215-239-8

Classification transport
ONU: 2862
Transport Hazard class: 6.1
Packing group II

Danger
H302-H332-H341-H361d-H335-H372-H411
P264-P273-P271-P280-P304+P340-P308+P313

Vanadium (V) oxide > RPE - For analysis

RPE

Description ..... Ochre powder
Identification ..... Positive
Cr ..... ≤ 100 ppm
Fe ..... ≤ 300 ppm
Si ..... ≤ 200 ppm
Assay (oxidimetric) ..... ≥ 99.60 %

Code	Size	Packaging	Notes
491103	50 g	Glass bottle	
491105	250 g	Glass bottle	

Vanillin

Vanillina • Vanilline • Vanillina

Synonym:
4-Hydroxy-3-methoxybenzaldehyde

$C_8H_8O_3$
Molecular Weight: 152,15
CAS: 121-33-5
EEC-N: 204-465-2

Warning
H302
P264-P270-P330-P301+P312a-P501a

Vanillin > ERBApharm - According to pharmacopoeia : BP-DAB-NF-Ph.Eur.-FU

ERBApharm

Description ..... Yellowish crystals
Identification ..... Positive
Appearance of solution ..... Conform Ph.Eur.
Related compounds ..... Conform Ph.Eur.
React. w. sulphuric ac. ..... Conform Ph.Eur.
Melting point ..... 81 ÷ 83 ° C
Loss (silica gel) ..... ≤1.0 % (4h)
Sulphated ash ..... ≤500 ppm
Assay (alkalimetric) ..... 99.0 ÷ 101.0 % s.s.

Code	Size	Packaging	Notes
388104	100 g	Plastic bottle	
388107	1 kg	Plastic bottle	
388108	5 kg	Plastic jar	

Vanillin solution, phosphoric

Vanillina soluzione, fosforico • Vaniline phosphorique solution • Vanillina solución fosfórica

Classification transport
ONU: 2733
Transport Hazard class: 3
Packing group II

Danger
H225-H314-H318
P210-P241-P264-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

Vanillin solution, phosphoric > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611095302	100 ml	Plastic bottle	Ref Ph.Eur 1095302

Vaseline ▶ Paraffin white soft

Victoria blue
Blu vittoria • Bleu Victoria • Azul Victoria

CAS: 1325-85-5
EEC-N: 215-408-6

Classification transport
ONU: 3143
Transport Hazard class: 6.1
Packing group III

Warning
H302
P264-P270-P330-P301+P312a-P501a

Victoria blue > RS - For microscopy - C.I. 42595

RS

Description ..... Green granules Identification ..... Positive

Code	Size	Packaging	Notes
429381	10 g	Glass bottle	
429382	25 g	Glass bottle	

Dye for microscopy (Anderson Method)

Viscosity standards
Standard di viscosità • Standards de viscosité • Patrones de viscosidad

Viscosity standards > RS - For calibration

RS

Code	Size	Packaging	Notes
540801	500 ml	Glass bottle	6.7cSt@20°C, 5.8cSt@25°C, 4.2cSt@37.78°C, 4cSt@40°C, 3.2cSt@50°C
540802	500 ml	Glass bottle	14cSt@20°C, 12cSt@25°C, 8cSt@37.78°C, 7.5cSt@40°C, 5.8cSt@50°C
540803	500 ml	Glass bottle	20cSt@20°C, 16cSt@25°C, 11cSt@37.78°C, 10cSt@40°C, 7.5cSt@50°C
540804	500 ml	Glass bottle	30cSt@20°C, 24cSt@25°C, 15cSt@37.78°C, 14cSt@40°C, 10cSt@50°C
540805	500 ml	Glass bottle	88cSt@20°C, 66cSt@25°C, 35cSt@37.78°C, 32cSt@40°C, 21cSt@50°C
540806	500 ml	Glass bottle	160cSt@20°C, 120cSt@25°C, 60cSt@37.78°C, 54cSt@40°C, 35cSt@50°C
540807	500 ml	Glass bottle	790cSt@20°C, 580cSt@25°C, 280cSt@37.78°C, 250cSt@40°C, 160cSt@50°C
540808	500 ml	Glass bottle	3300cSt@20°C, 2300cSt@25°C, 1100cSt@37.78°C, 940cSt@40°C, 560cSt@50°C
540809	500 ml	Glass bottle	19000cSt@20°C, 12000cSt@25°C, 4000cSt@37.78°C, 3400cSt@40°C, 1700cSt@50°C
540810	500 ml	Glass bottle	28000cSt@20°C, 17000cSt@25°C, 6000cSt@37.78°C, 5100cSt@40°C, 2500cSt@50°C
540811	500 ml	Glass bottle	41000cSt@20°C, 25000cSt@25°C, 8000cSt@37.78°C, 6700cSt@40°C, 3200cSt@50°C

Water

Acqua • Eau • Agua

H_2O
Molecular Weight: 18,02
CAS: 7732-18-5
EEC-N: 231-791-2

Water > RS - For UHPLC-MS

RS

Description ..... Clear colourless liquid
Colour ..... ≤ 5 APHA
Identification (I.R.)..... Positive
Conductivity ..... ≤ 0.09 µS/cm
Residue on evaporation ..... ≤ 0.4 ppm
Total organic carbon ..... ≤ 10 ppb
Acidity ..... ≤ 0.0002 %
Alkalinity ..... ≤ 0.00005 %

Transmittance
At 200 nm ..... ≥ 95 %
At 230 nm ..... ≥ 99 %

Fluorescence (quinine)
At 254 nm ..... ≤ 0.3 ppb
At 365 nm ..... ≤ 0.3 ppb

UHPLC gradient peak
At 210 nm ..... ≤ 2 mAU
Drift at 210 nm ..... ≤ 8 mAU
Drift at 254 nm ..... ≤ 3 mAU
Sensitive Impurities (reserpine)..... ≤ 30 ppb
Al ..... ≤ 20 ppb
Fe ..... ≤ 30 ppb
Ca ..... ≤ 50 ppb
Mg ..... ≤ 20 ppb
Na ..... ≤ 50 ppb
K ..... ≤ 50 ppb

Code	Size	Packaging	Notes
412091	1 l	Glass bottle	
412092	2.5 l	Glass bottle	

Water > RS - For LC/MS

RS

Description ..... Clear colourless liquid
Colour ..... ≤ 5 APHA
Identification (I.R.)..... Positive
Conductivity ..... ≤ 0.09 µS/cm
Residue on evaporation ..... ≤ 0.5 ppm
Total organic carbon ..... ≤ 10 ppb
Gradiente HPLC (Test)..... Conform
Acidity ..... ≤ 0.0002 %
Alkalinity ..... ≤ 0.00005 %

HPLC Gradient
at 210 nm ..... ≤ 2 mAU
at 254 nm ..... ≤ 0.5 mAU

Drift HPLC
Idon. test grad. LC-MS (TI-C,100-2000m/z)
Impurezze sensibili (reserpina)..... ≤ 50 ppb

Contenuto metalli
Al ..... ≤ 20 ppb
Fe ..... ≤ 30 ppb
Ca ..... ≤ 50 ppb
Mg ..... ≤ 20 ppb
Na ..... ≤ 100 ppb
K ..... ≤ 50 ppb

Code	Size	Packaging	Notes
412111	1 l	Glass bottle	
412112	2.5 l	Glass bottle	

Filtered through 0.1 µm membrane

Water > RS - For HPLC PLUS

RS

Description ..... Clear colourless liquid
Identification ..... Positive
Residue on evaporation ..... ≤0.5 ppm
Total organic carbon ..... ≤0.1 ppm

Fluorescence
at 365 nm ..... ≤0.5 ppb

UV Abs.max elut.peak
at 210 nm ..... ≤5 mAu
at 220 nm ..... ≤3 mAu
at 254 nm ..... ≤0.5 mAu
Conductivity during production ≤ 0.1 µS/cm
Heavy metals (Pb)..... ≤ 0.1 ppm
Nitrate ..... ≤ 0.1 ppm
CO2 ..... Not detectable

Code	Size	Packaging	Notes
412141	1 l	Glass bottle	
412142	2.5 l	Glass bottle	

Water > RS - For Headspace chromatography

RS

Description ..... Clear colourless liquid
Colour ..... ≤ 10 APHA
Residue on evaporation ..... ≤ 2 ppm

GC/HS
Residual solvent of class 1(acc. to ICH) . ≤ 1 µg/g
Residual solvent of class 2(acc. to ICH)≤ 10 µg/g
Residual solvent of class 3(acc. to ICH)≤ 50 µg/g

Code	Size	Packaging	Notes
412011	1 l	Glass bottle	

Water > RS - Ultrapure - For trace analysis at ppt level

RS

Description	Clear liquid	Co	≤ 10 ppt	Mn	≤ 10 ppt	Na	≤ 10 ppt
Colour (APHA)	≤ 10	Cu	≤ 10 ppt	Hg	≤ 20 ppt	Sr	≤ 10 ppt
Identification	Positive	Dy	≤ 1 ppt	Mo	≤ 10 ppt	Ta	≤ 10 ppt
Chloride	≤ 1 ppb	Er	≤ 1 ppt	Nd	≤ 1 ppt	Te	≤ 1 ppt
Phosphate	≤ 1 ppb	Eu	≤ 1 ppt	Ni	≤ 10 ppt	Tb	≤ 10 ppt
Sulphate	≤ 1 ppb	Gd	≤ 1 ppt	Nb	≤ 10 ppt	Tl	≤ 10 ppt
Al	≤ 20 ppt	Ga	≤ 10 ppt	Pd	≤ 10 ppt	Th	≤ 1 ppt
Sb	≤ 10 ppt	Ge	≤ 10 ppt	Pt	≤ 10 ppt	Tm	≤ 10 ppt
As	≤ 10 ppt	Au	≤ 10 ppt	K	≤ 10 ppt	Sn	≤ 10 ppt
Ba	≤ 10 ppt	Hf	≤ 1 ppt	Pr	≤ 10 ppt	Ti	≤ 10 ppt
Be	≤ 10 ppt	Ho	≤ 1 ppt	Re	≤ 10 ppt	W	≤ 10 ppt
Bi	≤ 10 ppt	In	≤ 1 ppt	Rh	≤ 10 ppt	U	≤ 1 ppt
B	≤ 20 ppt	Fe	≤ 10 ppt	Rb	≤ 10 ppt	V	≤ 10 ppt
Cd	≤ 10 ppt	La	≤ 1 ppt	Ru	≤ 10 ppt	Yb	≤ 10 ppt
Ca	≤ 10 ppt	Pb	≤ 10 ppt	Sm	≤ 10 ppt	Y	≤ 1 ppt
Ce	≤ 10 ppt	Li	≤ 10 ppt	Sc	≤ 10 ppt	Zn	≤ 10 ppt
Cs	≤ 10 ppt	Lu	≤ 1 ppt	Se	≤ 50 ppt	Zr	≤ 10 ppt
Cr	≤ 10 ppt	Mg	≤ 10 ppt	Ag	≤ 10 ppt		

Code	Size	Packaging	Notes
412185	500 ml	Plastic bottle	

Water > RS - Superpure - For trace analysis at ppb level

RS

Description	Clear liquid	Resistivity	≥ 18 Mohm	Mg	≤ 50 ppb	at 254 nm	≤ 0.005
Identification	Positive	Total organic carbon	≤ 20 ppb	K	≤ 50 ppb	at 300 nm	≤ 0.005
Colour	≤ 5 APHA	Al	≤ 50 ppb	Assorbimento massimo (a 254 nm)	0.002	at 400 nm	≤ 0.005
Residue on evaporation	≤ 1 ppm	Ca	≤ 50 ppb	**Absorbance**		LC Gradiente (Suitability Test)	Conform
Fluorescenza (Chinina)	≤ 100 ppt	Fe	≤ 50 ppb	at 200 nm	≤ 0.01		

Code	Size	Packaging	Notes
412151	1 l	Glass bottle	

Water > RS - For analysis according to Ph. Eur.Chapter 2.2.25

RS

Code	Size	Packaging	Notes
506411	100 ml	Glass bottle	Spectrophotometry Stray Light Blank

Water > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611095501	1 l	Plastic bottle	Water ammonium-free Ref Ph.Eur 1095501
611095506	1 l	Plastic bottle	Water nitrate-free Ref Ph.Eur 1095506

Water > RPE - For analysis

RPE

Description	Clear colourless liquid	As	≤ 0.01 ppm	Cu	≤ 0.01 ppm	Pb	≤ 0.01 ppm
pH at 25°C	5 ÷ 7	Au	≤ 0.01 ppm	Fe	≤ 0.01 ppm	Si	≤ 0.01 ppm
Conductivity during production	≤ 0.1 µS/cm	B	≤ 0.01 ppm	In	≤ 0.01 ppm	Sn	≤ 0.01 ppm
Residue on evaporation	≤ 1 ppm	Ba	≤ 0.01 ppm	K	≤ 0.01 ppm	Sr	≤ 0.01 ppm
Residue on calcination	≤ 1 ppm	Be	≤ 0.01 ppm	Li	≤ 0.01 ppm	Tl	≤ 0.01 ppm
Chloride	≤ 0.1 ppm	Bi	≤ 0.01 ppm	Mg	≤ 0.01 ppm	V	≤ 0.01 ppm
Phosphate	≤ 0.1 ppm	Ca	≤ 0.01 ppm	Mn	≤ 0.01 ppm	Zn	≤ 0.01 ppm
Nitrate	≤ 0.1 ppm	Cd	≤ 0.01 ppm	Mo	≤ 0.01 ppm	Zr	≤ 0.01 ppm
Sulphate	≤ 0.1 ppm	Co	≤ 0.01 ppm	Na	≤ 0.1 ppm	Oxidizing substances (O)	≤ 0.4 mg/l
Ag	≤ 0.01 ppm	Cr	≤ 0.01 ppm	Ni	≤ 0.01 ppm		

Code	Size	Packaging	Notes
307582	5 l	Plastic bottle	
307591	5 l	Plastic tank	
307581	10 l	Plastic tank	
307586	10 l	Kubidos	
307584	20 l	Kubidos	
307583	25 kg	Plastic tank	
307587	25 kg	Plastic tank	With tap
307585	50 kg	Plastic drum	

Conform to EN-ISO 3696 grade 3

Water + 0.1% v/v formic acid

Acqua + 0.1%(v/v) acido formico • Eau + 0.1%(v/v) acide formique • Agua + 0.1%(v/v) acido fórmico

H_2O
Molecular Weight: 18,02
CAS: 7732-18-5

Water + 0.1% v/v formic acid > RS - For LC/MS

RS

Description ..... Clear colourless liquid
Colour ..... ≤ 10 APHA
Acidity (formic acid) ..... 0.095 ÷ 0.105 %
HPLC Gradient
At 210 nm ..... ≤ 50 mAU
At 254 nm ..... ≤ 10 mAU

Transmittance
At 230 nm ..... ≥ 45 %
pH at 20°C ..... 2.6 - 2.8
Test LC-MS TIC (100-2000m/z)
Sensitive Impurities (reserpine) ..... ≤ 50 ppb

Metals content
Al ..... ≤ 20 ppb
Fe ..... ≤ 30 ppb
Ca ..... ≤ 50 ppb
Mg ..... ≤ 20 ppb
Na ..... ≤ 100 ppb
K ..... ≤ 50 ppb
Raw material used
Water (code 412110) ..... Batch number
Formic acid 98-99% (code 405820) . Batch number

Code	Size	Packaging	Notes
412121	1 l	Glass bottle	
412122	2.5 l	Glass bottle	

Water chlorine

Acqua di cloro • Eau de chlore • Agua de cloro

Cl_2
Molecular Weight: 70,91
CAS: 7782-50-5

Classification transport
ONU: 3082
Transport Hazard class: 9
Packing group III

Warning
H400
P273-P391-P501a

Water chlorine > RPE - For analysis

RPE

Description ..... Yellow clear liquid
Identification ..... Positive
Assay (ex chloryne) ..... 0.4 ÷ 0.7 % (p/p)

Code	Size	Packaging	Notes
411981	1 l	Glass bottle	

Water deionized and acidified

Acqua deionizzata acidificata • Eau désionisée acidifiée • Agua desionizada acidificada

HNO_3
Molecular Weight: 63,01
CAS: 7697-37-2

Classification transport
ONU: 1789
Transport Hazard class: 8
Packing group II

Danger
H314-H319-H335
P264-P271-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Water deionized and acidified > RS - Blanks for AAS, ICP, ICP-MS

RS

Code	Size	Packaging	Notes
504550	1 l	Bottle	Matrix : 2 % Nitric acid
504551	1 l	Bottle	Matrix : 5 % Nitric acid
504552	1 l	Bottle	Matrix : 10 % Nitric acid
504553	1 l	Bottle	Matrix : 2 % Hydrochloric acid
504554	1 l	Bottle	Matrix : 5 % Hydrochloric acid
504557	1 l	Bottle	Matrix : 10 % Hydrochloric acid

Water purified
Acqua purificata • Eau purifiee • Agua purificada

H_2O
Molecular Weight: 18,02
CAS: 7732-18-5
EEC-N: 231-791-2

Water purified > ERBApharm - According to pharmacopoeia : Ph.Eur.-FU-Ph.Franc.-BP-DAB-USP-JP

ERBApharm

Description ..... Clear colourless liquid
Identification ..... Positive
pH ..... 5.0 ÷ 7.0
Acidity or alkalinity ..... Conform Ph.Eu.
Oxidizable substances ..... Conform Ph.Eu.
Chloride ..... Pass test
Sulphate ..... Pass test
Calcium ..... Conform
Calcium + Magnesium ..... Conform Ph.Eu.
Carbon dioxide ..... Conform
Residue on evaporation ..... ≤10 ppm
Ammonium ..... ≤0.2 ppm
Nitrate ..... ≤0.2 ppm
Heavy metals (Pb) ..... ≤0.1 ppm
Total aerobic bacteria ..... Conform Ph.Eu.
Origin (BSE/TSE) ..... Mineral
Total Organic Carbon ..... ≤ 0.05 ppm
Conductivity at 20°C . ≤ 1.1 micromhos/cm
Production on-line parameter

Code	Size	Packaging	Notes
307602	10 l	Kubidos	
307603	25 kg	Plastic tank	
307604	200 l	Plastic drum	

Wijs' reagent
Wijs reattivo • Réactif de Wijs • Wijs reactivo

Classification transport
ONU: 2920
Transport Hazard class: 8
Packing group II

Danger
H226-H314-H318-H373
P210-P241-P264-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

Wijs' reagent > RS - For detection of iodine index

RS

Description ..... Brown clear liquid
Identification ..... Positive
Iodine value ..... ≥90

Code	Size	Packaging	Notes
E491901	250 ml	Glass bottle	
E491902	1 l	Glass bottle	

Wool fat ▶ Lanolin anhydrous

Wright's stain solution in methanol
Wright colorante soluzione in alcole metilico • Colorant de Wright solution methanolique • Colorante de Wright solución in alcohol metilico

Classification transport
ONU: 1230
Transport Hazard class: 3
Packing group II

Danger
H225-H301-H331-H370
P210-P241-P264-P303+P361+P353-P304+P340-P403+P235

Wright's stain solution in methanol > RS - For microscopy

RS

Description ..... Blue clear liquid
Identification ..... Positive
Assorbanza a 518 nm ..... ≥ 0.17
Assorbanza a 660 nm ..... ≥ 0.15

Code	Size	Packaging	Notes
492011	100 ml	Glass bottle	

CE IVD ***Dye for hematology***

Xylene, mix of isomers

Xilene, isomeri misti • Xylène, mélange d'isomères • Xileno, mezcla de isómeros

C_8H_{10}
Molecular Weight: 106,17
CAS: 1330-20-7
EEC-N: 292-694-9

Classification transport
ONU: 1307
Transport Hazard class: 3
Packing group III

Danger
H226-H312-H332-H315-H319-H335-H373-H304
P210-P241-P264-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

Xylene, mix of isomers > RS - RSE - For electronic use

RS

Description	Clear liquid	Phosphate	≤1 ppm	Cd	≤0.005 ppm	Ni	≤0.01 ppm
Colour (APHA)	≤10	Heavy metals (Pb)	≤0.1 ppm	Co	≤0.01 ppm	Pb	≤0.01 ppm
Identification	Positive	Toluene	≤5000 ppm	Cr	≤0.01 ppm	Pt	≤0.05 ppm
Ready carbonizable substances	Conform	Total sulphur	≤3 ppm	Cu	≤0.01 ppm	Sb	≤0.01 ppm
Density at 20° C	0.864 ÷ 0.870	Ag	≤0.02 ppm	Fe	≤0.05 ppm	Sn	≤0.02 ppm
Boiling point	137.0 ÷ 140.0 °	Al	≤0.05 ppm	Ga	≤0.02 ppm	Sr	≤0.02 ppm
Resistivity	≥1 Mohm.cm	As	≤0.01 ppm	In	≤0.02 ppm	Ti	≤0.05 ppm
Water (K.F.)	≤100 ppm	Au	≤0.05 ppm	K	≤0.1 ppm	Tl	≤0.05 ppm
Residue on evaporation	≤5 ppm	B	≤0.01 ppm	Li	≤0.02 ppm	V	≤0.05 ppm
Acidity (HCl)	≤5 ppm	Ba	≤0.1 ppm	Mg	≤0.1 ppm	Zn	≤0.01 ppm
Alcalinity (NH3)	≤1 ppm	Be	≤0.02 ppm	Mn	≤0.01 ppm	Zr	≤0.05 ppm
Benzene	≤100 ppm	Bi	≤0.02 ppm	Mo	≤0.05 ppm		
Chloride	≤3 ppm	Ca	≤0.2 ppm	Na	≤0.1 ppm		

Code	Size	Packaging	Notes
492358	1 l	Glass bottle	
492359	2.5 l	Glass bottle	

Xylene, mix of isomers > RPE - For analysis - ISO - ACS - Reag.Ph.Eur. - Reag.USP

RPE

Description	Clear liquid	Residue on evaporation	≤10 ppm	Al	≤0.5 ppm	Mg	≤0.1 ppm
Colour (APHA)	≤10	Acidity (benzoic acid)	≤14 ppm	Ba	≤0.1 ppm	Mn	≤0.02 ppm
Identification (I.R.)	Positive	Alcalinity (NH3)	≤2 ppm	Ca	≤0.5 ppm	Ni	≤0.02 ppm
Boiling point	137 - 140 °C	Benzene	≤ 50 ppm	Cd	≤0.05 ppm	Pb	≤0.05 ppm
Ready carbonizable substances	Conform	Ethylbenzene	≤25 %	Co	≤0.02 ppm	Sn	≤0.1 ppm
Density at 20° C	0.864 ÷ 0.870	Tiophene	≤1 ppm	Cr	≤0.02 ppm	Zn	≤0.05 ppm
Refractive index at 20°C	1.4947 ÷ 1.4987	Toluene	≤0.5 %	Cu	≤0.02 ppm	Assay(isomeric mixture)	≥99.0 %
Water (K.F.)	≤200 ppm	Total sulphur	≤3 ppm	Fe	≤0.1 ppm	Any single impurity	≤ 0.5 %

Code	Size	Packaging	Notes
492301	1 l	Glass bottle	
492306	2.5 l	Glass bottle	
492305	5 l	Plastic tank	
492303	23 kg	Metal drum	
492304	170 kg	Metal drum	

Xylene, mix of isomers > RE - Pure - Low content in benzene

RE

Description	Clear liquid	Refractive index at 20°C	1.4917 ÷ 1.5017	Water (K.F.)	≤ 200 ppm	Assay (isomeric mix)	≥ 98.5 %
Identity (IR)	Positive	Boiling point	137.5 ÷ 139.5 °C	Benzene	≤ 50 ppm		
Density at 20°C	0.862 ÷ 0.872	Residue on evaporation	≤ 100 ppm	Total sulphur	≤ 100 ppm		

Code	Size	Packaging	Notes
392602	1 l	Glass bottle	
392603	2.5 l	Glass bottle	
528251	5 l	Plastic tank	
392605	23 kg	Metal drum	
392608	170 kg	Metal drum	
528252	200 l	Metal drum	

o-Xylene
o-Xilene • o-xylène • o-Xileno

Synonym:
1,2-Dimethylbenzene

$C_6H_4(CH_3)_2$
Molecular Weight: 106,17
CAS: 95-47-6
EEC-N: 202-422-2

Classification transport
ONU: 1307
Transport Hazard class: 3
Packing group II

Danger
H226-H312-H332-H315-H319-H335-H304
P210-P241-P264-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

o-Xylene > RPE - For analysis

RPE

Description ..... Clear colourless liquid
Identification ..... Positive
Alcohol miscibility..... Complete
Chloroform miscibility ..... Complete
Diethyl ether miscib..... Complete
Ready carbonizable substances.....Conform
Density at 20° C .....0.875 ÷ 0.885
Refractive index at 20°C.1.5028 ÷ 1.5088
Boiling point..... 139.0 ÷ 149.0 ° C
Freezing point ..... -23.5 ÷ -26.5 °C
Water (K.F.) .....≤300 ppm
Residue on evaporation .....≤10 ppm
Acidity (benzoic acid) .....≤14 ppm
Alcalinity (NH3).....≤2 ppm
Benzene ..... ≤0.15 %
Ethylbenzene..... ≤0.15 %
Tiophene .....≤1 ppm
Toluene..... ≤0.15 %
Total sulphur .....≤5 ppm
Assay (GLC) ..... ≥99 %

Code	Size	Packaging	Notes
492403	1 l	Glass bottle	
492404	2.5 l	Glass bottle	
492401	24 kg	Metal drum	

Xylenecyanol
Xilencianolo FF • Xylènecyanol FF • Xilenocianol FF

Synonym:
Xylene Cyanol FF
Acid blue 147

$C_{25}H_{27}N_2NaO_6S_2$
Molecular Weight: 538,61
CAS: 2650-17-1
EEC-N: 220-167-5

Warning
H319
P264-P280i-P305+P351+P338-P337+P313

Xylenecyanol > RPE - For analysis

RPE

Description .....Cristalli verde intenso
Identification ..... Positive
Colour change.....(rosa - verde)
pH range .....3.2 - 4.2

Code	Size	Packaging	Notes
492211	1 g	Glass bottle	
492212	25 g	Glass bottle	

Dye for microscopy (histology). Acid base indicator. C.I. 42135

Xylenol orange
Arancio xilenolo • Orange de xylénol • Naranja de xilenol

Synonym:
Xylenol Orange disodium salt
Cresolsulfonphtalein disodium salt

$C_{31}H_{30}O_{13}N_2SNa_2$
Molecular Weight: 716,63
CAS: 1611-35-4
EEC-N: 216-553-8

Warning
H315-H319-H335
P264-P271-P280-P304+P340-P305+P351+P338-P312a

Xylenol orange > RPE - For analysis

RPE

Description ..... Orange crystalline powder
Identification ..... Positive
Sens.as complex.indicat ..... Conform

Code	Size	Packaging	Notes
423597	1 g	Glass bottle	
423598	5 g	Glass bottle	
423599	25 g	Glass bottle	

Complexometric indicator

D(+)Xylose

D(+)Xilosio • D(+)Xylose • D(+)Xilosa

$C_5H_{10}O_5$
Molecular Weight: 150,13
CAS: 58-86-6
EEC-N: 200-400-7

D(+)Xylose > RPE - For analysis

RPE

Description ..... White crystalline powder
Identification ..... Positive
Specific optical rotation..... +19 ÷ +21 °
Water (K.F.) ..... ≤0.2 %
Chloride.....≤50 ppm
Heavy metals (Pb).....≤10 ppm
Residue on ignition..... ≤0.1 %
Sulphate.....≤50 ppm

Code	Size	Packaging	Notes
492803	50 g	Glass bottle	
492804	100 g	Glass bottle	

D(+)Xylose > RE - Pure

RE

Description .....Whyte crystalline powder
Identification ..... Positive
Melting point..... 144 ÷ 148 ° C
Specific optical rotation... +19.0 ÷ +20.0 °
Loss on drying ..... ≤0.3 %
Acidity (acetic acid).....≤300 ppm
Chloride.....≤50 ppm
Heavy metals (Pb).....≤10 ppm
Residue on ignition..... ≤0.1 %
Sulphate.....≤50 ppm
As .....≤1 ppm

Code	Size	Packaging	Notes
392631	500 g	Plastic bottle	
392635	25 kg	Plastic bucket	

Ytterbium standard solution

Itterbio standard soluzione • Ytterbium solution standard • Iterbio, solución patrón

Classification transport
ONU: 3264
Transport Hazard class: 8
Packing group III

Ytterbium standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505947	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505948	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Ytterbium standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
504071	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
504075	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
504073	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
504077	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Ytterbium standard solution > RS - Standard solution for AAS

RS

Code	Size	Packaging	Notes
507768	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
507523	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Yttrium standard solution

Ittrio standard soluzione • Yttrium solution standard • Itrio, solución patrón

Classification transport
ONU: 3264
Transport Hazard class: 8
Packing group III

Yttrium standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505942	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505945	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid
505943	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Yttrium standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
504061	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
504065	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
504063	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
504067	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Yttrium standard solution > RS - Standard solution for AAS

RS

Code	Size	Packaging	Notes
507767	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
507522	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Yttrium (III) oxide

Ittrio ossido • Yttrium oxyde • Itrio óxido

Synonym:
Yttria

Y_2O_3
Molecular Weight: 225,82
CAS: 1314-36-9
EEC-N: 215-233-5

Warning
H315-H319-H335
P264-P271-P280-P304+P340-P305+P351+P338-P312a

Yttrium (III) oxide > RPE - For analysis

RPE

Description ..... White powder Identification ..... Positive Loss on ignition..... ≤3 % Assay (gravimetric).....99 ÷ 100 % s s

Code	Size	Packaging	Notes
457107	1 g	Glass bottle	

Ziehl-Neelsen's reagent

Ziehl -Neelsen reattivo soluzione • Réactif de Ziehl-Neelsen en solution • Ziehl -Neelsen reactivo solución

Classification transport
ONU: 2922
Transport Hazard class: 8
Packing group II

Danger
H302-H314-H318-H341
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Ziehl-Neelsen's reagent > RS - For bacteriology

RS

Description ..... Red liquid Identification ..... Positive Assorbanza a 554 nm ..... ≥ 0.14

Code	Size	Packaging	Notes
493101	250 ml	Plastic bottle	
493102	1 l	Plastic bottle	

CE IVD ***Dye for bacteriology. Contains carbol fuchsin.***

Zinc standard solution

Zinco standard soluzione • Zinc solution standard • Zinc, solución patrón

Zn

Danger
H314
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Zinc standard solution > RS - For analysis according to Ph. Eur. Chap. 4.2.1

RS

Code	Size	Packaging	Notes
612000800	100 g	Plastic bottle	Ref Ph.Eur 2000800

Zinc standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2

RS

Code	Size	Packaging	Notes
615003400	100 ml	Plastic bottle	A 5mg/l solution Ref Ph.Eur 5003400
615003402	100 ml	Plastic bottle	A 10 ppm solution : to dilute according to Ref Ph.Eur 5003402
615003403	100 ml	Plastic bottle	A 5 ppm solution : to dilute according to Ref Ph.Eur 5003403
615003409	100 ml	Plastic bottle	A 100 ppm solution : to dilute according to Ref Ph.Eur 5003401

Zinc standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505952	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505955	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid
505953	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Zinc standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
504081	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
504085	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrochloric acid
504083	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
504087	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrochloric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Zinc standard solution > RS - Standard solution for AAS

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
507769	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
E497685	100 ml	Glass bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
507477	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
E497681	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Zinc standard solution > RS - NORMEX - Concentrated solution for AAS

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
493151		Plastic vial	conc. 1.000 ppm Matrix : Nitric acid - Volume : 50 ml

Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package

Zinc, foil

Zinco, lastra • Zinc, lames • Zinc, hojas

Zn
Molecular Weight: 65,38
CAS: 7440-66-6
EEC-N: 231-175-3

Zinc, foil > RPE - For analysis

RPE

Description ..... Grey foil Identification ..... Positive Assay (oxidimetric) ..... ≥98 %

Code	Size	Packaging	Notes
493507	1 kg	Bag	

Zinc, granular

Zinco, granuli • Zinc, granule • Zinc, granulada

Zn
Molecular Weight: 65,38
CAS: 7440-66-6
EEC-N: 231-175-3

Classification transport
ONU: 1436
Transport Hazard class: 4.3
Packing group II

Danger
H250-H260-H410
P210-P223-P273-P222-P231+P232-P422a

Zinc, granular > RPE - For analysis

RPE

Description ..... Granuli grigi Subst. reducing KMnO4 ..... Conform Fe ..... ≤200 ppm
Identification ..... Positive As ..... ≤0.15 ppm Pb ..... ≤500 ppm

Code	Size	Packaging	Notes
493451	500 g	Plastic bottle	0.5 - 1 mm
493307	1 kg	Plastic bottle	1 - 7 mm
493309	5 kg	Plastic bottle	1 - 7 mm
493303	25 kg	Glass bottle	1 - 7 mm

Zinc, powder
Zinco, polvere • Zinc, poudre • Zinc, polvo

Zn
Molecular Weight: 65,38
CAS: 7440-66-6

Classification transport
ONU: 3077
Transport Hazard class: 9
Packing group III

Warning
H410
P273-P391-P501a

Zinc, powder > RE - Pure
RE

Description ..... Grey powder Identification ..... Positive Assay (oxidimetric) .....≥85 %

Code	Size	Packaging	Notes
493705	250 g	Glass bottle	
493707	1 kg	Plastic bottle	
493702	25 kg	Metal drum	

Zinc, activated
Zinco, attivato • Zinc activé • Zinc, activado

Zn
CAS: 7440-66-6

Warning
H315-H319-H412
P264-P273-P280-P305+P351+P338-P332+P313-P337+P313

Zinc, activated > RS - For analysis according to Ph. Eur. Chap. 4.1.1
RS

Code	Size	Packaging	Notes
611096501	100 g	Plastic bottle	Ref Ph.Eur 1096501

Zinc acetate dihydrate
Zinco acetato diidrato • Zinc acétate dihydraté • Zinc acetato dihidrato

$Zn(CH_3COO)_2.2H_2O$
Molecular Weight: 219,49
CAS: 5970-45-6

Warning
H302
P264-P270-P330-P301+P312a-P501a

Zinc acetate dihydrate > RPE - For analysis
RPE

Description ..... White shining crystals
Identification ..... Positive
pH sol. 5% at 25° C .....6.2 ÷ 6.6
Chloride.....≤5 ppm
Phosphate .....≤20 ppm
Water-insoluble matter .....≤30 ppm
Sulphate.....≤10 ppm
As .....≤0.4 ppm
Ca .....≤100 ppm
Cd.....≤5 ppm
Cu.....≤5 ppm
Fe .....≤3 ppm
K.....≤100 ppm
Mn .....≤5 ppm
Na.....≤50 ppm
Ni.....≤5 ppm
Pb.....≤5 ppm
Assay (complexometric)..... ≥99.5 %

Code	Size	Packaging	Notes
493806	100 g	Plastic bottle	
493807	1 kg	Plastic bottle	
493803	25 kg	Plastic bucket	

Zinc acetate solution
Zinco acetato soluzione • Zinc acétate solution • Zinc acetato solución

$Zn(CH_3COO)_2.2H_2O$
Molecular Weight: 219,49
CAS: 5970-45-6

Zinc acetate solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1
RS

Code	Size	Packaging	Notes
611102301	1 l	Plastic bottle	Ref Ph.Eur 1102301

Zinc carbonate basic

Zinco carbonato basico • Zinc carbonate basique • Zinc carbonato básico

$[CO_3]Zn_2\ 3Zn(OH)_2$
CAS: 5260-02-5
EEC-N: 226-076-7

Zinc carbonate basic > RPE - For analysis

RPE

Description ..... White powder
Identification ..... Positive
Sulphate ..... ≤ 0.5 %
Cd ..... ≤ 1 ppm
Cu ..... ≤ 5 ppm
Fe ..... ≤ 20 ppm
Mn ..... ≤ 20 ppm
Ni ..... ≤ 5 ppm
Pb ..... ≤ 5 ppm
Loss on drying ..... ≤ 3 %
Loss on ignition ..... 25.5 ± 0.5 %
Assay (alkalimetric) ..... ≥ 69 % (ZnO)

Code	Size	Packaging	Notes
494006	500 g	Plastic bottle	

Zinc chloride anhydrous

Zinco cloruro anidro • Zinc chlorure anhydre • Zinc cloruro anhidro

Synonym:
Dichlorozinc

$ZnCl_2$
Molecular Weight: 136,28
CAS: 7646-85-7
EEC-N: 231-592-0

Classification transport
ONU: 2331
Transport Hazard class: 8
Packing group III

Danger
H302-H314-H410
P264-P273-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Zinc chloride anhydrous > RPE - For analysis - ACS

RPE

Description ..... White crystals
Identification ..... Positive
Ammonium ..... ≤50 ppm
Diluted HCl-ins. matter ..... ≤50 ppm
Nitrate ..... ≤30 ppm
Oxichloride(ZnO) ..... Conform
Sulphate ..... ≤100 ppm
Ca ..... ≤600 ppm
Fe ..... ≤10 ppm
K ..... ≤200 ppm
Mg ..... ≤100 ppm
Na ..... ≤500 ppm
Pb ..... ≤50 ppm
Assay (argentimetric) ..... ≥97.0 %

Code	Size	Packaging	Notes
494104	100 g	Plastic bottle	
494105	250 g	Plastic bottle	
494107	1 kg	Plastic bottle	

Zinc chloride anhydrous > RE - Pure

RE

Description ..... White crystalline powder
Identification ..... Positive
Sulphate ..... ≤0.05 %
Fe ..... ≤10 ppm
Assay (complexometric) ..... ≥97 %

Code	Size	Packaging	Notes
393007	1 kg	Plastic bottle	
393009	5 kg	Plastic jar	
393002	25 kg	Plastic bucket	

Zinc chloride solution 60%

Zinco cloruro soluzione 60% • Zinc chlorure solution à 60% • Zinc cloruro solución 60%

Synonym:
Dichlorozinc

$ZnCl_2$
Molecular Weight: 136,28
CAS: 7646-85-7

Classification transport
ONU: 1840
Transport Hazard class: 8
Packing group III

Danger
H302-H314-H318-H335-H400-H410
P264-P273-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Zinc chloride solution 60% > RPE - For analysis

RPE

Description ..... Liquido incolore
Identification ..... Positive
Density at 20° C ..... ≥1.750

Code	Size	Packaging	Notes
E494301	1 l	Bottle	

Zinc chloride solution, iodinated

Zinco cloruro soluzione, iodata • Chlorure de zinc - Solution iodée • Zinc cloruro solución, yodada

Synonym: *Dichlorozinc*

$ZnCl_2$
Molecular Weight: 136,28
CAS: 7646-85-7

Classification transport
ONU: 1760
Transport Hazard class: 8
Packing group III

Danger
H302-H314-H318-H334-H317-H335-H373-H400-H410
P264-P273-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338-P342+P311a

Zinc chloride solution, iodinated > RS - For analysis according to Ph. Eur. Chap. 4.1.1 — RS

Code	Size	Packaging	Notes
611096603	500 ml	Glass bottle	Ref Ph.Eur 1096602
611096602	1 l	Glass bottle	Ref Ph.Eur 1096602

Storage: protected from light

Zinc chloride-formic acid solution

Zinco cloruro - acido formico soluzione • Chlorure de zinc-acide formique - Solution • Zinc cloruro - ácido fórmico solución

Classification transport
ONU: 1760
Transport Hazard class: 8
Packing group II

Danger
H302-H314-H318-H335-H411
P264-P273-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Zinc chloride-formic acid solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1 — RS

Code	Size	Packaging	Notes
611096601	1 l	Glass bottle	Ref Ph.Eur 1096601

Zinc dibenzyldithiocarbamate

Zinco dibenzilditiocarbammato • Zinc dibenzyldithiocarbamate • Zinc dibencilditiocarbamato

$[(C_6H_5CH_2)_2NCSS]_2Zn$
Molecular Weight: 610,2
CAS: 14726-36-4
EEC-N: 238-778-0

Zinc dibenzyldithiocarbamate > RPE - For analysis — RPE

Description ..... White powder
Identification ..... Positive
Melting point..... 183 ÷ 185 ° C
Assay (complexometric) ..... ≥94 %

Code	Size	Packaging	Notes
494311	10 g	Glass bottle	

Zinc nitrate hexahydrate

Zinco nitrato esaidrato • Zinc nitrate hexahydraté • Zinc nitrato hexahidratado

$Zn(NO_3)_2.6H_2O$
Molecular Weight: 297,47
CAS: 10196-18-6
EEC-N: 231-943-8

Classification transport
ONU: 1514
Transport Hazard class: 5.1
Packing group II

Danger
H272-H302-H315-H319-H335
P221-P264-P210a-P271-P304+P340-P305+P351+P338

Zinc nitrate hexahydrate > RPE - For analysis — RPE

Description ..... White semitransparent crystals
Identification ..... Positive
Chloride..... ≤ 100 ppm
Fe ..... ≤ 20 ppm
Pb ..... ≤ 100 ppm
Assay (complexometric) ..... ≥ 97.5 %

Code	Size	Packaging	Notes
494506	100 g	Plastic bottle	
494507	1 kg	Plastic bottle	

Zinc oxide
Zinco ossido • Zinc oxyde • Zinc óxido

ZnO
Molecular Weight: 81,37
CAS: 1314-13-2
EEC-N: 215-222-5

Classification transport
ONU: 3077
Transport Hazard class: 9
Packing group III

Warning
H410
P273-P391-P501a

Zinc oxide > RPE - For analysis
RPE

Description ..... White powder
Identification ..... Positive
Alcalinity..... Conform
Loss on ignition..... ≤0.5 %
Carbonate..... ≤0.2 %
Chloride..... ≤5 ppm
Phosphate ..... ≤5 ppm
Dil. H2SO4-ins. matter..... ≤100 ppm
Nitrate ..... ≤20 ppm
Subst. not ppt. (NH4)2S ..... ≤0.1 %
Subst. reducing KMnO4..... ≤10 ppm(15m)
Total sulphur ..... ≤50 ppm
As ..... ≤0.5 ppm
Ca..... ≤50 ppm
Cd..... ≤10 ppm
Cu..... ≤5 ppm
Fe ..... ≤10 ppm
Mn ..... ≤5 ppm
Ni..... ≤10 ppm
Pb..... ≤50 ppm
Zn ..... ≤20 ppm
Assay (alkalimetric)..... ≥99.0 %

Code	Size	Packaging	Notes
494606	100 g	Plastic bottle	
494607	1 kg	Plastic bottle	
494602	25 kg	Plastic bucket	

Zinc oxide > ERBApharm - According to pharmacopoeia : Ph.Eur.-USP-FU-Ph.Franc.-BP
ERBApharm

Description ..... Yellowish powder
Identification ..... Positive
Alcalinity..... Conform Ph.Eur.
Coal and acid ins.matt. ..... Conform Ph.Eur.
Fe - other heavy metals ... Conform USP-NF
Loss on calcin. 500°C ..... ≤1.0 %
As ..... ≤5 ppm
Cd..... ≤10 ppm
Fe ..... ≤200 ppm
Pb ..... ≤50 ppm
Assay (complexometric) .... 99.0 ÷ 100.5 % s.s.c.
Origin (BSE/TSE)..... Synthesis
Residual solvents (Current ICH)..... Conform

Code	Size	Packaging	Notes
393507	1 kg	Plastic bottle	
393509	5 kg	Plastic jar	
393503	25 kg	Plastic bucket	

Zinc stearate
Zinco stearato • Zinc stéarate • Zinc estearato

Synonym:
Stearic acid zinc salt

$C_{36}H_{70}O_4Zn$
Molecular Weight: 632,33
CAS: 557-05-1
EEC-N: 209-151-9

Warning
H335
P271-P261-P304+P340-P312a-P403+P233-P405

Zinc stearate > ERBApharm - Vegetal origin - According to pharmacopoeia : Ph.Eur.-USP-FU
ERBApharm

Description ..... White powder
Identification ..... Positive
Appearance of solution ..... Conform Ph.Eur.
Solution appea. fat ac. ..... Conform Ph.Eur.
Acidity or alkalinity..... Conform Ph.Eur.
Acidity ind. fat acids ..... 195 ÷ 210
Freezing point ..... ≥54 °C
Alkaly-alkaline earth ..... ≤ 1.0 %
Chloride..... ≤ 250 ppm
Sulphate ..... ≤ 0.6 %
As ..... ≤ 1.5 ppm
Cd..... ≤ 5.0 ppm
Pb ..... ≤ 10 ppm
Assay as Zn (complexometric). 10.0 ÷ 12.0 %
Assay as ZnO (complexometric) 12.5 ÷ 14.0 %

Code	Size	Packaging	Notes
395451	1 kg	Plastic bottle	
395452	10 kg	Plastic bucket	

Zinc sulfate heptahydrate

Zinco solfato eptaidrato • Zinc sulfate heptahydraté • Zinc sulfato heptahidratado

$ZnSO_4.7H_2O$
Molecular Weight: 287,54
CAS: 7446-20-0

Classification transport
ONU: 3077
Transport Hazard class: 9
Packing group III

Warning
H400-H410
P273-P391-P501a

Zinc sulfate heptahydrate > RPE - For analysis - ACS

RPE

Description ..... White crystals	Chloride ..... ≤5 ppm	Fe ..... ≤10 ppm	Na ..... ≤500 ppm
Identification ..... Positive	Water-insoluble matter ..... ≤100 ppm	K ..... ≤100 ppm	Pb ..... ≤30 ppm
pH sol. 5% at 25° C ..... 4.4 ÷ 6.0	Nitrate ..... ≤20 ppm	Mg ..... ≤50 ppm	Assay (complexometric) .... 99.0 ÷ 103.0 %
Ammonium ..... ≤10 ppm	Ca ..... ≤50 ppm	Mn ..... ≤3 ppm	

Code	Size	Packaging	Notes
494905	100 g	Plastic bottle	
494906	500 g	Plastic bottle	
494907	1 kg	Plastic bottle	
494909	5 kg	Plastic jar	
494901	25 kg	Drum	

Zinc sulfate heptahydrate > ERBApharm - According to pharmacopoeia : Ph.Eur.-USP-FU-Ph.Franc.-BP

ERBApharm

Description ..... White crystalline powder	Acidity ..... Conform USP-NF	Alkaline,alk.earth met. ..... ≤0.9 %	Pb ..... ≤20 ppm
Identification ..... Positive	pH sol. 5% at 25° C ..... 4.4 ÷ 5.6	As ..... ≤14 ppm	Assay (complexometric) .... 99.0 ÷ 104.0 %
Appearance of solution ..... Conform Ph.Eur.	Chloride ..... ≤300 ppm	Fe ..... ≤100 ppm	

Code	Size	Packaging	Notes
394007	1 kg	Plastic bottle	
394009	5 kg	Plastic jar	
394001	25 kg	Plastic bucket	

Zinc sulfate monohydrate

Zinco solfato monoidrato • Zinc sulfate monohydrate • Zinc sulfato monohidrato

$ZnSO_4.H_2O$
Molecular Weight: 179,45
CAS: 7446-19-7
EEC-N: 231-793-3

Classification transport
ONU: 3077
Transport Hazard class: 9
Packing group III

Danger
H302-H318-H410
P264-P273-P280i-P305+P351+P338-P330-P301+P312a

Zinc sulfate monohydrate > RPE - For analysis

RPE

Description ..... White fine powder	pH sol. 5% at 25°C ..... 4 ÷ 6	Pb ..... ≤ 10 ppm	As ..... ≤ 1 ppm
Identification ..... Positive	Chloride ..... ≤ 1 %	Cu ..... ≤ 5 ppm	Hg ..... ≤ 0.1 ppm
Assay (Zn) ..... ≥ 35 %	Mn ..... ≤ 30 ppm	Cd ..... ≤ 10 ppm	
Water (K.F.) ..... ≤ 1 %	Fe ..... ≤ 30 ppm	Ni ..... ≤ 15 ppm	

Code	Size	Packaging	Notes
495005	250 g	Plastic bottle	
495007	1 kg	Plastic bottle	

Zinc sulfate 0.1 mol/l (0.2N)

Zinco solfato 0.1 mol/l (0.2N) • Zinc sulfate 0.1 mol/l (0.2N) • Zinc sulfato 0.1 mol/l (0.2N)

$ZnSO_4.7H_2O$
Molecular Weight: 287,54
CAS: 7446-20-0

Classification transport
ONU: 3082
Transport Hazard class: 9
Packing group III

H411
P273-P391-P501a

Zinc sulfate 0.1 mol/l (0.2N) > RS - For analysis according to Ph. Eur. Chap. 4.2.2

RS

Code	Size	Packaging	Notes
613008601	500 ml	Plastic bottle	Ref Ph.Eur 3008600
613008600	1 l	Plastic bottle	Ref Ph.Eur 3008600

Zinc sulfate 0.1 mol/l (0.2N) > RPE - For analysis

RPE

Description ..... Clear colourless liquid Assay (potentiometry) ..... 0.1996 - 0.2004 N

Code	Size	Packaging	Notes
494921	1 l	Plastic bottle	

Zinc sulfate 0.05 mol/l (0.05N)

Zinco solfato 0.05 mol/l (0.05N) • Zinc sulfate 0.05 mol/l (0.05N) • Zinc sulfato 0.05 mol/l (0.05N)

$ZnSO_4.7H_2O$
Molecular Weight: 287,54
CAS: 7446-20-0

Warning
H319-H412
P264-P273-P280-P305+P351+P338-P337+P313-P501a

Zinc sulfate 0.05 mol/l (0.05N) > RPE - For analysis

RPE

Description ..... Clear colourless liquid Titration factor..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
494931	1 l	Plastic bottle	

Zinc sulfide

Zinco solfuro • Zinc sulfure • Zinc sulfuro

Synonym:
Zinc sulphide

ZnS
Molecular Weight: 97,43
CAS: 1314-98-3
EEC-N: 215-251-3

HEU031

Zinc sulfide > RPE - For analysis

RPE

Description ..... White-green powder Ammonium .....≤500 ppm Heavy metals (Pb).....≤20 ppm Assay (complexometric) ..... ≥98 %
Identification ..... Positive Chloride.....≤500 ppm Fe .....≤50 ppm

Code	Size	Packaging	Notes
495105	250 g	Plastic bottle	
495107	1 kg	Plastic bottle	

Zincon

Zincon • Zincon • Zincón

Synonym:
Zincon monosodium salt
2-Carboxy-2'-hydroxy-5'-sulfoformazyl-benzene monosodium salt

$C_{20}H_{15}N_4O_6SNa.H_2O$
Molecular Weight: 480,43
CAS: 62625-22-3
EEC-N: 263-651-1

Zincon > RPE - For analysis

RPE

Description ..... Purple powder Identification ..... Positive Copper sensitivity ..... ~ 50 µg/ml Zinc sensitivity ..... ~ 10 µg/ml

Code	Size	Packaging	Notes
495144	5 g	Glass bottle	

For the spectrophotometric determination of Cu and Zn in animal tissues

Zirconium standard solution

Zirconio standard soluzione • Zirconium solution standard • Zirconio, solución patrón

Zirconium standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2

RS

Code	Size	Packaging	Notes
615003500	100 ml	Plastic bottle	A 1 g/l solution Ref Ph.Eur 5003500

Zirconium standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505957	100 ml	Plastic bottle	conc. 10 ppm Matrix : Nitric acid and hydrofluoric acid
505958	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid and hydrofluoric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Zirconium standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
504091	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid and hydrofluoric acid
504095	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrochloric acid and hydrofluoric acid
504093	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid and hydrofluoric acid
504097	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrochloric acid and hydrofluoric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Zirconium standard solution > RS - Standard solution for AAS

RS

Code	Size	Packaging	Notes
507770	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid and hydrofluoric acid
507524	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid and hydrofluoric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Zirconium (IV) oxide

Zirconio ossido • Zirconium oxyde • Zirconio óxido

Synonym:
Zirconia

ZrO_2
Molecular Weight: 123,22
CAS: 1314-23-4
EEC-N: 215-227-2

Zirconium (IV) oxide > RPE - For analysis

RPE

Description ..... Polvere bianca
Identification ..... Positive
Chloride ..... ≤100 ppm
Fe ..... ≤200 ppm
Assay (complexometric) ..... ≥99 %

Code	Size	Packaging	Notes
495305	250 g	Glass bottle	

Zirconyl nitrate

Zirconile nitrato • Zirconyle nitrate • Zirconio oxinitrato

Synonym:
Zirconium(IV) oxynitrate hydrate

$ZrO(NO_3)_2.nH_2O$
Molecular Weight: 231,23 (an,)
CAS: 14985-18-3
EEC-N: 237-529-3

Classification transport
ONU: 1477
Transport Hazard class: 5.1
Packing group II

Danger
H272-H315-H319-H335
P210-P221-P264-P271-P304+P340-P305+P351+P338

Zirconyl nitrate > RE - Pure

RE

Description ..... White powder
Identification ..... Positive
Hf ..... ≤ 4 %
Assay (gravimetric) ..... ≥ 99.4 %

Code	Size	Packaging	Notes
396105	50 g	Glass bottle	

Zirconyl nitrate

Zirconile nitrato • Zirconyle nitrate • Zirconio oxinitrato

Synonym:
Zirconium(IV) oxynitrate hydrate

$ZrO(NO_3)_2.nH_2O$
Molecular Weight: 231,23 (an,)
CAS: 14985-18-3
EEC-N: 237-529-3

Classification transport
ONU: 1477
Transport Hazard class: 5.1
Packing group II

Danger
H272-H315-H319-H335
P210-P221-P264-P271-P304+P340-P305+P351+P338

Zirconyl nitrate > RE - Pure

RE

Description ..... White powder Identification ..... Positive Hf..... ≤ 4 % Assay (gravimetric) ..... ≥ 99.4 %

Code	Size	Packaging	Notes
396105	50 g	Glass bottle	

CHEMICAL TABLES

CARLO ERBA Reagents
Labware Selection

- **Full range of pH test papers**
- **Ausilab**™ detergents and disinfetctants for surfaces, manual and machine washing
- **Idrimeter**™ manual and instrumented water analysis kit

DASITGROUP | CARLO ERBA REAGENTS

www.carloerbareagents.com

PERIODIC TABLE OF THE ELEMENTS

Legend

Atomic Number — Symbol — Name

1	1,00794
H	
Hydrogen	2,1
1s¹	
+1,-1	

†Atomic Weight

*Electronegativity (Pauling)

†Electron Configuration Possible Oxid. States(NOTE)

Phase at STP

Gas Liquid Solid Synthetic

Categories

Non Metals	Poor Metals
Alkali Metals	Metalloids
Alkaline Hearth Metals	Halogens
Transition Metals	Noble Gas
Rare Hearth Metals	

Common Constants

Absolute Zero		-273.15 °C	Fine-structure constant	α	0.0072973525
Atomic Mass Unit	m_u	1.660539×10^{-27} kg	Gravitation Constant	G	6.67408×10^{-11} m³ kg⁻¹ s⁻²
Avogadro Constant	N_A	6.022137×10^{23} mol⁻¹	Molar Gas Constant	R	8.31451 J mol⁻¹ K⁻¹
Base of Natural Logarithms	e	2.718281828	Molar Volume (Ideal Gas)		0.022414 10 m³/mol
Boltzmann constant	k	1.380658×10^{-23} J/K	π	π	3.141592653589793
Electron Mass	m_e	9.109387×10^{-31} kg	Planck Constant	h	6.626076×10^{-34} Js
		0.510998 MeV/c²	Proton-Electron Mass Ratio	m_p/m_e	1836.15267389
Electron Radius (Classical)	r0	2.817940×10^{-15} m	Rydberg Constant	R_∞	10 973 732 m⁻¹
Electron Volt	eV	1.602176×10^{-19} J	Speed of Light in a Vacuum	c	299 792 458 m/s
Elementry Charge	e	1.602177×10^{-19} C	Speed of sound in air at STP		343.8 m/s
Faraday Constant	F	9.648531×10^{4} C/mol⁻¹	Standard Pressure		101 325 Pa

Period	GROUP 1 IA	2 IIA	3 IIIB	4 IVB	5 VB	6 VIB	7 VIIB	8 VIII	9 VIII	10 VIII	11 IB	12 IIB	13 IIIA	14 IVA	15 VA	16 VIA	17 VIIA	18 VIIIA
1	1 1,00794 **H** Hydrogen 2,1 1s1 1,-1																	2 4,002602 **He** Helium - 1s² 0
2	3 6,941 **Li** Lithium 0,98 [He] 2s¹ 1	4 9,012182 **Be** Beryllium 1,57 [He] 2s² 2											5 10,811 **B** Boron 2,04 [He] 2s² 2p¹ 3	6 12,011 **C** Carbon 2,55 [He] 2s² 2p² -4,-2,0,2,4	7 14,00674 **N** Nitrogen 3,04 [He] 2s² 2p³ -3,2,3,4,5	8 15,9994 **O** Oxygen 3,44 [He] 2s² 2p⁴ -2,-1	9 18,9984032 **F** Fluorine 3,98 [He] 2s² 2p⁵ -1	10 20,1797 **Ne** Neon - [He] 2s² 2p⁶ 0
3	11 22,98977 **Na** Sodium 0,93 [Ne] 3s¹ 1	12 24,3050 **Mg** Magnesium 1,31 [Ne] 3s² 2											13 26,981539 **Al** Aluminum 1,61 [Ne] 3s² 3p¹ 3	14 28,0855 **Si** Silicon 1,9 [Ne] 3s² 3p² -4,4	15 30,973762 **P** Phosphorus 2,19 [Ne] 3s² 3p³ -3,3,5	16 32,066 **S** Sulfur 2,58 [Ne] 3s² 3p⁴ -2,2,4,6	17 35,4527 **Cl** Chlorine 3,16 [Ne] 3s² 3p⁵ -1,1,3,5,7	18 39,948 **Ar** Argon - [Ne] 3s² 3p⁶ 0
4	19 39,0983 **K** Potassium 0,82 [Ar] 4s¹ 1	20 40,078 **Ca** Calcium 1 [Ar] 4s² 2	21 44,95591 **Sc** Scandium 1,36 [Ar] 3d1 4s² 3	22 47,867 **Ti** Titanium 1,54 [Ar] 3d² 4s² 3,4	23 50,9415 **V** Vanadium 1,6 [Ar] 3d³ 4s² 0,2,3,4,5	24 51,9961 **Cr** Chromium 1,6 [Ar] 3d⁵ 4s¹ 0,2,3,6	25 54,93805 **Mn** Manganese 1,5 [Ar] 3d⁵ 4s² -1,0,2,3,4,6,7	26 55,845 **Fe** Iron 1,8 [Ar] 3d⁶ 4s² -2,0,2,3,6	27 58,9332 **Co** Cobalt 1,8 [Ar] 3d⁷ 4s² -1,0,2,3	28 58,6934 **Ni** Nickel 1,8 [Ar] 3d⁸ 4s² 0,2,3	29 63,546 **Cu** Copper 1,9 [Ar] 3d¹⁰ 4s¹ 1,2	30 65,39 **Zn** Zinc 1,65 [Ar] 3d¹⁰ 4s² 2	31 69,723 **Ga** Gallium 1,81 [Ar] 3d¹⁰ 4s² 4p¹ 1,3	32 72,61 **Ge** Germanium 2,01 [Ar] 3d¹⁰ 4s² 4p² 2,4	33 74,9216 **As** Arsenic 2,18 [Ar] 3d¹⁰ 4s² 4p³ -3,3,5	34 78,96 **Se** Selenium 2,55 [Ar] 3d¹⁰ 4s² 4p⁴ -2,4,6	35 79,904 **Br** Bromine 2,96 [Ar] 3d¹⁰ 4s² 4p⁵ -1,1,3,5,7	36 83,80 **Kr** Krypton [Ar] 3d¹⁰ 4s² 4p⁶ 0,2
5	37 85,4678 **Rb** Rubidium 0,98 [Kr] 5s¹ 1	38 87,62 **Sr** Strontium 0,95 [Kr] 5s² 2	39 88,90585 **Y** Yttrium 1,22 [Kr] 4d¹ 5s² 3	40 91,224 **Zr** Zirconium 1,33 [Kr] 4d² 5s² 4	41 92,90638 **Nb** Niobium 1,6 [Kr] 4d⁴ 5s¹ 3,5	42 95,94 **Mo** Molybdenum 1,8 [Kr] 4d⁵ 5s¹ 0,2,3,4,5,6	43 98 **Tc** Technetium 1,9 [Kr] 4d⁵ 5s¹ 7	44 101,07 **Ru** Ruthenium 2,2 [Kr] 4d⁷ 5s¹ -2,0,2,3,4,6,8	45 102,9055 **Rh** Rhodium 2,2 [Kr] 4d⁸ 5s¹ 0,1,2,3,4,5	46 106,42 **Pd** Palladium 2,2 [Kr] 4d¹⁰ 5s⁰ 0,2,4	47 107,8682 **Ag** Silver 1,9 [Kr] 4d¹⁰ 5s¹ 1,2	48 112,411 **Cd** Cadmium 1,46 [Kr] 4d¹⁰ 5s² 2	49 114,818 **In** Indium 1,78 [Kr] 4d¹⁰ 5s² 5p¹ 3	50 118,71 **Sn** Tin 1,96 [Kr] 4d¹⁰ 5s² 5p² 2,4	51 121,76 **Sb** Antimony 2,05 [Kr] 4d¹⁰ 5s² 5p³ -3,3,5	52 127,6 **Te** Tellurium 2,1 [Kr] 4d¹⁰ 5s² 5p⁴ -2,4,6	53 126,90447 **I** Iodine 2,66 [Kr] 4d¹⁰ 5s² 5p⁵ -1,1,5,7	54 131,293 **Xe** Xenon [Kr] 4d¹⁰ 5s² 5p⁶ 0,2,4,6,8
6	55 132,90545 **Cs** Cesium 0,79 [Xe] 6s¹ 1	56 137,327 **Ba** Barium 0,89 [Xe] 6s² 2	Lanthanides Series	72 178,49 **Hf** Hafnium 1,3 [Xe] 4f¹⁴ 5d² 6s² 4	73 180,9479 **Ta** Tantalum 1,5 [Xe] 4f¹⁴ 5d³ 6s² 5	74 183,84 **W** Tungsten 1,7 [Xe] 4f⁴ 5d⁴ 6s² 0,2,3,4,5,6	75 186,207 **Re** Rhenium 1,9 [Xe] 4f¹⁴ 5d⁵ 6s² -1,2,4,6,7	76 190,23 **Os** Osmium 2,2 [Xe] 4f¹⁴ 5d⁶ 6s² -2,0,2,3,4,6,8	77 192,217 **Ir** Iridium 2,2 [Xe] 4f¹⁴ 5d⁷ 6s² -1,0,1,2,3,4,6	78 195,078 **Pt** Platinum 2,2 [Xe] 4f¹⁴ 5d⁹ 6s¹ 0,2,4	79 196,96654 **Au** Gold 2,4 [Xe] 4f¹⁴ 5d¹⁰ 6s¹ 1,3	80 200,59 **Hg** Mercury 1,9 [Xe] 4f¹⁴ 5d¹⁰ 6s² 1,2	81 204,3833 **Tl** Thallium 1,8 [Xe] 4f¹⁴ 5d¹⁰ 6s² 6p¹ 1,3	82 207,2 **Pb** Lead 1,8 [Xe] 4f¹⁴ 5d¹⁰ 6s² 6p² 2,4	83 208,98038 **Bi** Bismuth 1,9 [Xe] 4f¹⁴ 5d¹⁰ 6s² 6p³ 3,5	84 209 **Po** Polonium 2 [Xe] 4f¹⁴ 5d¹⁰ 6s² 6p⁴ 2,4,6	85 210 **At** Astatine 2,2 [Xe] 4f¹⁴ 5d¹⁰ 6s² 6p⁵ -1,1,3,5,7	86 222 **Rn** Radon - [Xe] 4f¹⁴ 5d¹⁰ 6s² 6p⁶ 0
7	87 223 **Fr** Francium 0,7 [Rn] 7s¹ 1	88 226 **Ra** Radium 0,9 [Rn] 7s² 2	Actinides Series	104 261 **Rf** Rutherfordium [Rn] 5f¹⁴ 6d² 7s²	105 262 **Db** Dubnium [Rn] 5f¹⁴ 6d³ 7s²	106 263 **Sg** Seaborgium [Rn] 5f¹⁴ 6d⁴ 7s²	107 262 **Bh** Bohrium	108 265 **Hs** Hassium	109 266 **Mt** Meitnerium	110 **Ds** Darmstadtium	111 **Rg** Roentgenium	112 **Cn** Copernicium						

Lanthanides	57 138,9055 **La** Lanthanum 1,1 [Xe] 5d¹ 6s² 3	58 140,115 **Ce** Cerium 1,1 [Xe] 4f¹ 5d¹ 6s² 3,4	59 140,90765 **Pr** Praseodymium 1,1 [Xe] 4f³ 5d⁰ 6s² 3,4	60 144,24 **Nd** Neodymium 1,2 [Xe] 4f⁴ 5d⁰ 6s² 3	61 145 **Pm** Promethium - [Xe] 4f⁵ 5d⁰ 6s² 3	62 150,36 **Sm** Samarium 1,2 [Xe] 4f⁶ 5d⁰ 6s² 2,3	63 151,964 **Eu** Europium - [Xe] 4f⁷ 5d⁰ 6s² 2,3	64 157,25 **Gd** Gadolinium 1,1 [Xe] 4f⁷ 5d¹ 6s² 3	65 158,92534 **Tb** Terbium 1,2 [Xe] 4f⁹ 5d⁰ 6s² 3,4	66 162,5 **Dy** Dysprosium - [Xe] 4f¹⁰ 5d⁰ 6s² 3	67 164,93032 **Ho** Holmium 1,2 [Xe] 4f¹¹ 5d⁰ 6s² 3	68 167,259 **Er** Erbium 1,2 [Xe] 4f¹² 5d⁰ 6s² 3	69 168,93421 **Tm** Thulium 1,2 [Xe] 4f¹³ 5d⁰ 6s² 2,3	70 173,04 **Yb** Ytterbium 1,1 [Xe] 4f¹⁴ 5d⁰ 6s² 2,3	71 174,967 **Lu** Lutetium 1,2 [Xe] 4f¹⁴ 5d¹ 6s² 3
Actinides	89 227 **Ac** Actinium 1,1 [Rn] 6d¹ 7s² 3	90 232,0381 **Th** Thorium 1,2 [Rn] 5f⁰ 6d² 7s² 4	91 231,03588 **Pa** Protactinium 1,5 [Rn] 5f² 6d¹ 7s² 3,4,5	92 238,0289 **U** Uranium 1,7 [Rn] 5f³ 6d¹ 7s² 3,4,5,6	93 237 **Np** Neptunium 1,3 [Rn] 5f⁴ 6d¹ 7s² 3,4,5,6	94 244 **Pu** Plutonium 1,3 [Rn] 5f⁶ 6d⁰ 7s² 3,4,5,6	95 243 **Am** Americium 1,3 [Rn] 5f⁷ 6d⁰ 7s² 3,4,5,6	96 247 **Cm** Curium 1,3 [Rn] 5f⁷ 6d¹ 7s² 3,4	97 247 **Bk** Berkelium 1,3 [Rn] 5f⁹ 6d⁰ 7s² 3,4	98 251 **Cf** Californium 1,3 [Rn] 5f¹⁰ 6d⁰ 7s² 3,4	99 252 **Es** Einsteinium 1,3 [Rn] 5f¹¹ 6d⁰ 7s² 3	100 257 **Fm** Fermium 1,3 [Rn] 5f¹² 6d⁰ 7s² 3	101 258 **Md** Mendelevium 1,3 [Rn] 5f¹³ 6d⁰ 7s² 3	102 259 **No** Nobelium 1,3 [Rn] 5f¹⁴ 6d⁰ 7s² 2,3	103 262 **Lr** Lawrencium - [Rn] 5f¹⁴ 6d¹ 7s² 3

NOTES:
- Atomic Weight based on 12°C
- ( ) indicate mass number of most stable isotope
- Electron Config. based on IUPAC guidelines

MEASUREMENTS AND SYMBOLS

Unit Name	Symbols	Dimension
Ångström	Å	Length
Becquerel	Bq	Activity
Calorie	cal	Heat quantity
Candela	cd	Luminous intensity
Kilogram	kg	Mass
Coulomb	C	Eletric carge
Second	s	Time
Dyne	dyn	Force
Dyne per centimetre	dyn/cm	Surface tension
Erg	erg	Work, energy
Farad	F	Eletric capacitance
Ampere	A	Electric current
Herz	Hz	Frequency
Joule	J	Energy, work
Metre	m	Length
Micron	µ o µm	Length
Mole	mol	Amount of substance
Newton	N	Force
Pascal	Pa	Pressure
Poise	P o Po	Dynamic viscosity
Liter	L	Volume
Stokes	St	Kinematic viscosity
Kelvin	K	Temperature
Volt	V	Eletric potential
Watt	W	Power

DECIMAL UNIT MULTIPLES AND SUBMULTIPLES

Multiples

Factor	Name	Decimal number	Prefix	Symbol
10^{18}	trillion	1 000 000 000 000 000 000	exa	E
10^{15}	–	1 000 000 000 000 000	penta	P
10^{12}	one thousand bilion	1 000 000 000 000	tera	T
10^{9}	bilion	1 000 000 000	giga	G
10^{6}	milion	1 000 000	mega	M
10^{3}	one thousand	1 000	kilo	k
10^{2}	one hundred	100	hecto	h
10^{1}	ten	10	deca	da
10^{0}	one	1	–	–

Submultiples

Factor	Name	Decimal number	Prefix	Symbol
10^{0}	one	1	–	–
10^{-1}	one tenth	0,1	deci	d
10^{-2}	one hundredth	0,01	centi	c
10^{-3}	one thousandth	0,001	milli	m
10^{-6}	one milionth	0,000 001	micro	µ
10^{-9}	one bilionth	0,000 000 001	nano	n
10^{-12}	one thousand bilionth	0,000 000 000 001	piko	p
10^{-15}	–	0,000 000 000 000 001	femto	f
10^{-18}	one trilionth	0,000 000 000 000 000 001	atto	a

APHA COLOUR

APHA	Pt-Co ml	Water ml
10	1.0	49.0
20	2.0	48.0
30	3.0	47.0
40	4.0	46.0
60	6.0	44.0
80	8.0	42.0
100	10.0	40.0
150	15.0	35.0
200	20.0	30.0
300	30.0	20.0
400	40.0	10.0
500	50.0	–

The colour of the liquid (pure substance or solutions) might be conventionally expressed in APHA units (American Public Health Association).

The determination is carried out comparing the colour of the liquid with that of reference solution prepared under specific conditions. For the comparison, two identical 50 ml Nessler cylinders of transparent glass, containing equal volumes of the liquid and reference solution were used. This was prepared by diluting a certain amount of Platinum-Cobalt, so as to obtain the given APHA value according to the ratios given in the table below.

Platinum-Cobalt (500 APHA)

Dissolve 1,246 g of Potassium chloroplatinate RPE and 1,000 g of Cobaltous chloride hexahydrate RPE in 200 ml of distilled water. Add 100 ml of hydrochloric acid 37% and dilute to 1000 ml with distilled water. This solution has a conventional colorimetric value of 500 APHA units.

VISCOSITY - UNIT OF MEASURE

International System (SI)

Shear stress τ .....Pascal (Pa)=Newton/m^2 (N/m^2)
Velocity gradient g.....m/s
Dynamic viscosity h .....Pascal x second (Pa·s)
.....Millipascal x second (mPa·s)
Kinematic viscosity n.....m^2/s =104 Stokes
.....mm^2/s

CGS System

Shear stress τ .....dine/cm^2
Velocity gradient g.....cm/s
Dynamic viscosity h .....Poise (P) = dine·s/cm^2 = 1 Pa
.....Centipoise (cP)
Kinematic viscosity n.....Stokes (St) = 0,1 Pa·s
.....Centistokes (cSt) = 1 mPa·s

Tab. 1 - Distilled water – specific viscosity at different temperatures (1)

Temperature	cP (centipoise)	Viscosity
0°	0,0179	1,000
5°	0,0151	0,843
10°	0,0130	0,730
15°	0,0114	0,637
17,5°	0,0107	0,599
20°	0,0100	0,561
30°	0,0080	0,446
50°	0,0054	0,307
70°	0,0040	0,226
100°	0,0028	0,158

(1) From: Küster F.W. - Thiel A., Tabelle Logaritmiche, ed. Hoepli, 1965

Tab. 2 - Table of viscosity in increasing order (cP at 20° C)

Solvent	Viscosity (cP)	Solvent	Viscosity (cP)	Solvent	Viscosity (cP)
Pentane	0.23	Methanol	0.55	Water	1.00
Diethyl ether	0.23	Tetrahydrofuran	0.55	Hethanol absolute	1.20
Methyl-tert-butyl ether	0.27	Chloroform	0.57	Acetic acid glacial	1.29
Petroleum ether	0.30	Toluene	0.59	1,4 Dioxane	1.54
Hexane	0.31	Benzene	0.65	2-Methoxyethanol	1.72
Acetone	0.32	1,1,2-Tricloro 1,2,2-trifluoroethane	0.71	Dimethylsulfoxide	2.24
Acetonitrile	0.36	1,2 Dichloroethane	0.79	Propan-1-ol	2.26
Heptane	0.41	Dimethylformamide	0.85	Propan-2-ol	2.30
Dichlorometane	0.43	Tetrachloroethylene	0.93	Octan-1-ol	approx. 10.64
1-Chlorobutane	0.45	Pyridine	0.95		
Ethyl acetate	0.45	Carbon tetrachloride	0.97		
2,2,4 Trimethylpentane	0.51	Cyclohexane	1.00		

DENSITY

Ammonium hydroxide

d 15°C 4°C	°Bé	% NH3
1.000	10	–
0.992	11	1.61
0.986	12	3.30
0.979	13	4.80
0.972	14	6.55
0.966	15	8.33
0.959	16	9.91
0.953	17	11.60
0.947	18	13.31
0.941	19	15.04
0.935	20	17.12
0.929	21	18.64
0.923	22	20.08
0.917	23	22.39
0.912	24	24.34
0.906	25	26.31
0.900	26	27.99
0.895	27	29.69
0.889	28	31.75

Hydrochloric acid

15°C d 4°C	°Bé	% m HCl
1.0069	1	1.56
1.014	2	2.99
1.021	3	4.55
1.028	4	5.99
1.036	5	7.56
1.043	6	9.14
1.050	7	10.59
1.058	8	12.17
1.066	9	13.61
1.074	10	15.16
1.082	11	16.70
1.090	12	18.30
1.098	13	20.00
1.106	14	21.60
1.115	15	23.05
1.124	16	24.79
1.133	17	26.55
1.142	18	28.15
1.151	19	29.95
1.160	20	32.10
1.169	21	33.65
1.179	22	35.40
1.189	23	37.25
1.199	24	39.10

Nitric acid

d 15°C 4°C	°Bé	% m HNO_3
1.0069	1	1,39
1.014	2	2,69
1.021	3	4,08
1.028	4	5,37
1.036	5	6.76
1.043	6	8,13
1.050	7	9,35
1.058	8	10,68
1.066	9	11,88
1.074	10	13,15
1.082	11	14,47
1.090	12	15,70
1.098	13	17,11
1.106	14	18,46
1.115	15	19,61
1.124	16	21,00
1.133	17	22,40
1.142	18	23,70
1.151	19	25,15
1.160	20	26,65
1.169	21	28,03
1.179	22	29,38
1.189	23	30,88
1.199	24	32,36
1.209	25	33,80
1.219	26	35,28
1.229	27	36,96
1.240	28	38,44
1.250	29	40,12
1.261	30	41,81
1.273	31	43,49
1.284	32	45,18
1.295	33	46,98
1.307	34	48,72
1.319	35	50,71
1.331	36	52,80
1.344	37	54,93
1.356	38	57,13
1.369	39	59,39
1.382	40	61,92
1.396	41	64,71
1.409	42	67,50
1.423	43	70,80
1.437	44	74,32
1.452	45	78,18
1.467	46	82,48
1.482	47	87,23
1.498	48	93,45
1.513	49	99,07

Phosphoric acid

d 15°C 4°C	°Bé	% m H_3PO_4
1.0069	1	1.38
1.014	2	2.76
1.021	3	4.13
1.028	4	5.51
1.036	5	6.90
1.043	6	8.26
1.050	7	9.64
1.058	8	11.02
1.066	9	12.40
1.074	10	13.77
1.082	11	15.15
1.090	12	16.53
1.098	13	17.91
1.106	14	19.28
1.115	15	20.66
1.124	16	22.04
1.133	17	23.42
1.142	18	24.80
1.151	19	26.17
1.160	20	27.55
1.169	21	28.93
1.179	22	30.31
1.189	23	31.68
1.199	24	33.06
1.209	25	34.44
1.219	26	35.82
1.229	27	37.19
1.240	28	38.57
1.250	29	39.95
1.261	30	41.33
1.273	31	42.70
1.284	32	44.08
1.295	33	45.46
1.307	34	46.84
1.319	35	48.21
1.331	36	49.59
1.344	37	50.97
1.356	38	52.04
1.369	39	53.72
1.382	40	55.10
1.396	41	56.48
1.409	42	57.86
1.423	43	59.23
1.437	44	60.61
1.452	45	61.99
1.467	46	63.37
1.482	47	64.75
1.498	48	66.12
1.513	49	67.50
1.529	50	68.88
1.545	51	70.26
1.562	52	71.63
1.579	53	73.01
1.597	54	74.39
1.615	55	75.77
1.633	56	77.14
1.652	57	78.52
1.671	58	79.90
1.690	59	81.28
1.710	60	82.65
1.731	61	83.03
1.752	62	85.41
1.773	63	86.80
1.795	64	88.16
1.818	65	89.55
1.841	66	90.92

Potassium hydroxide

d 15°C 4°C	°Bé	% m KOH
1.0069	1	0.9
1.014	2	1.7
1.021	3	2.6
1.028	4	3.5
1.036	5	4.5
1.043	6	5.5
1.050	7	6.4
1.058	8	7.4
1.066	9	8.3
1.074	10	9.2
1.082	11	10.1
1.090	12	11.0
1.098	13	12.0
1.106	14	12.9
1.115	15	13.8
1.124	16	14.8
1.133	17	15.7
1.142	18	16.6
1.151	19	17.6
1.160	20	18.6
1.169	21	19.5
1.179	22	20.5
1.189	23	21.4
1.199	24	22.4
1.209	25	23.3
1.219	26	24.2
1.229	27	25.1
1.240	28	26.1
1.250	29	27.0
1.261	30	28.0
1.273	31	28.9
1.284	32	29.8
1.295	33	30.7
1.307	34	31.7
1.319	35	32.7
1.331	36	33.7
1.344	37	34.9
1.356	38	35.9

1.369	39	36.9
1.382	40	37.9
1.396	41	38.9
1.409	42	39.9
1.423	43	40.9
1.437	44	42.1
1.452	45	43.4
1.467	46	44.6
1.482	47	45.8
1.498	48	47.1
1.513	49	48.3
1.529	50	49.4
1.545	51	50.6

Sodium hydroxide

d 15°C 4°C	°Bé	% m NaOH
1.0069	1	0.59
1.014	2	1.20
1.021	3	1.85
1.028	4	2.50
1.036	5	3.15
1.043	6	3.79
1.050	7	4.50
1.058	8	5.20
1.066	9	5.86
1.074	10	6.58
1.082	11	7.30
1.090	12	8.07
1.098	13	8.78
1.106	14	9.50
1.115	15	10.30
1.124	16	11.06
1.133	17	11.90
1.142	18	12.69
1.151	19	13.50
1.160	20	14.35
1.169	21	15.15
1.179	22	16.00
1.189	23	16.90
1.199	24	17.81
1.209	25	18.71
1.219	26	19.65
1.229	27	20.60
1.240	28	21.55
1.250	29	22.50
1.261	30	23.50
1.273	31	24.48
1.284	32	25.50
1.295	33	26.58
1.307	34	27.65
1.319	35	28.83
1.331	36	30.00
1.344	37	31.20
1.356	38	32.50
1.369	39	33.73
1.382	40	35.00
1.396	41	36.36
1.409	42	37.65
1.423	43	39.06
1.437	44	40.47
1.452	45	42.02
1.467	46	43.58
1.482	47	45.16
1.498	48	46.73
1.513	49	48.41
1.529	50	50.10

Sulphuric acid

d 15°C 4°C	°Bé	% m H_2SO_4
1.0069	1	1.20
1.014	2	2.20
1.021	3	3.35
1.028	4	4.40
1.036	5	5.54
1.043	6	6.67
1.050	7	7.67
1.058	8	8.77
1.066	9	9.78
1.074	10	10.90
1.082	11	12.06
1.090	12	13.13
1.098	13	14.35
1.106	14	15.48
1.115	15	16.49
1.124	16	17.66
1.133	17	18.85
1.142	18	19.93
1.151	19	21.17
1.160	20	22.45
1.169	21	23.60
1.179	22	24.76
1.189	23	26.04
1.199	24	27.32
1.209	25	28.58
1.219	26	29.84
1.229	27	31.23
1.240	28	32.40
1.250	29	33.66
1.261	30	34.90
1.273	31	36.17
1.284	32	37.45
1.295	33	38.84
1.307	34	40.12
1.319	35	41.50
1.331	36	42.98
1.344	37	44.28
1.356	38	45.62
1.369	39	46.94
1.382	40	48.35
1.396	41	49.85
1.409	42	51.15
1.423	43	52.51
1.437	44	53.91
1.452	45	55.34
1.467	46	56.74
1.482	47	58.13
1.498	48	59.54
1.513	49	61.12
1.529	50	62.53
1.545	51	64.05
1.562	52	65.50
1.579	53	66.95
1.597	54	68.41
1.615	55	70.00
1.633	56	71.70
1.652	57	73.18
1.671	58	74.80
1.690	59	76.50
1.710	60	78.04
1.731	61	80.02
1.752	62	81.83
1.773	63	84.00
1.795	64	86.30
1.818	65	90.05
1.841	66	95.69

POLARITY

Table of polarity in increasing order (p)

Solvent	Polarity (p)
Heptane	0.1
Hexane	0.1
Petroleum ether	0.1
2,2,4 Trimethylpentane	0.1
Cyclohexane	0.2
1-Chlorobutane	1.0
Carbon tetrachloride	1.6
Toluene	2.4
Metyl-tert butyle ether	2.5
Benzene	2.7
Diethyl ether	2.8
Dichloromethane	3.1
Octan-1-ol	3.4
1,2 Dichloroethane	3.5
Propan-1-ol	3.9
Propan-2-ol	4.0
Tetrahydrofuran	4.0
Chloroform	4.1
Ethanol absolute	4.3
Ethyl acetate	4.4
1,4 Dioxane	4.8
Acetone	5.1
Methanol	5.1
Pyridine	5.3
2-Methoxyethanol	5.5
Acetonitrile	5.8
Acetic acid glacial	6.0
Dimethylformamide	6.4
Dimethysulfoxide	7.2
Water	10.2

INDICATORS

Table of pH range and colour shades

Indicator	pH range	Acid	Basic
Malachite green	0.0-2.0	yellow	green-blue
Brilliant green	0.0-2.6	yellow	green
Eosin Y	0.0-3.0	yellow	green
Erythrosin B	0.0-3.6	orange	red
Methyl green	0.1-2.3	yellow	blue
Methyl violet	0.1-2.7	yellow	violet
Picric acid	0.2-1.0	colourless	yellow
Cresol red	0.2-1.8	red	yellow
Crystal violet	0.8-2.6	yellow	blue-violet
Thymol blue	1.2-2.8	red	yellow
Tropaeolin OO	1.3-3.2	red	yellow
Eosin B	1.4-2.4	colourless	rose
Quinaldine red	1.4-3.2	colourless	rose
2,4-Dinitrophenol	2.4-4.0	colourless	yellow
Methyl yellow	2.9-4.0	red	yellow
Bromophenol blue	3.0-4.6	yellow	blue-violet
Congo red	3.0-5.2	blue	yellow-orange
Methyl orange	3.1-4.4	red	orange
Alizarine sodium sulphonate	3.7-5.2	yellow	violet
a-Naphtil red	3.7-5.0	red	yellow
Bromocresol green	4.0-5.6	yellow	blue
2,5-Dinitrophenol	4.0-5.8	colourless	yellow
Alizarine red	4.3-6.3	yellow	violet
Methyl red	4.4-6.2	red	yellow
Chlorophenol red	4.8-6.4	yellow	red
Bromocresol purple	5.2-6.8	yellow	purple
p-Nitrophenol	5.4-7.5	colourless	yellow
Bromoxylenol blue	5.7-7.5	yellow	blue
Alizarine	5.8-7.2	yellow	red
Bromothymol blue	6.0-7.6	yellow	blue
Bromophenol blue	6.2-7.6	yellow	blue
Phenol red	6.4-8.2	yellow	red
3-Nitrophenol	6.6-8.6	colourless	yellow-orange
Neutral red	6.8-8.0	red	yellow
Rosolic acid	6.8-8.0	yellow	red
Cresol red	7.2-8.8	yellow	red
a-Naphtolphtalein	7.3-8.7	rose	green
Cresol purple	7.4-9.0	yellow	purple
Tropaeolin OOO	7.6-8.9	yellow	rose-red
Thymol blue	8.0-9.6	yellow	blue
Phenolphtalein	8.0-10.0	colourless	red
a-Naphtolbenzein	9.0-11.0	yellow	blue
Thymolphtalein	9.4-10.6	colourless	blue
Alkali blue 6B	9.4-14.0	violet	rose
Alizarin	10.0-12.0	yellow	purple
Nilo blue	10.1-11.1	blue	red
Diazoviolet	10.1-12.0	yellow	violet
Tropaeolin O	11.0-13.0	yellow	orange-brown
Nitramine	11.0-13.0	colourless	orange-brown
Poirrier blue	11.0-13.0	blue	violet-rose
Clayton's yellow O	12.0-13.0	yellow	red
Trinitrobenzoic acid	12.0-13.4	colourless	orange-red
Indigo carmine dried	11.5-13.0	blue	yellow
Epsilon blue	11.6-13.0	orange	violet

COLOUR INDEX

Colour Index	Colour Index Name	Commercial Name	Synonyms Index
10316	Acid Yellow 1	Naphthol yellow S	Acid yelow S
11020	Solvent Yellow 1,2	Methyl yellow	
11270	Basic Orange 2	Chrysoidin Y	Brown salt R
12055	Solvent Yellow 14	Sudan yellow	Sudan I Sudan yellow R
12140	Solvent Orange 7	Sudan II	Sudan red Sudan Orange RR
13020	Acid Red 2	Methyl red	
13025	Acid Orange 52	Methyil orange	Orange III Helianthin
13065	Acid Yellow 36	Methanyl yellow	Tropaeolin G
13080	Acid Orange 5	Tropaeolin 00	Orange IV
14030	Mordant orange 1	Alizarin yellow R	Alizarin yellow G Orange R
14270	Acid Orange 6	Tropaeolin O	Tropeolina Y
14645	Mordant black 11	Heriochrome black T	Superchrome black T
15510	Acid Orange 7	Orange II	Tropaeolin 000
15705	Mordant black 17	Calcon	Palatine chrome balck Eriochrome blue black B
16150	Acid red 26	Ponceau de Xilidine	Ponceau 2 R Brilliant Ponceau
16185	Acid Red 27	Amaranth	Naphthol red S, C o O Solid red O
16230	Acid Orange 10	Orange G	Orange GG
16570	Acid red 29	Chromotrope 2R	Acid phloxin GR
19140	Acid yellow 23	Tartrazine	Acid yellow T
19540	Direct yellow 9	Titan yellow	Thiazole yellow G Clayton yellow
20470	Acid Black 1	Naphthalene black 12 B	Naftol blue black Amido black 10B Pontacyl black blue SX
21010	Basic brown 4	Bismark Brown R	Vesuvine BL
22120	Direct red 28	Congo red	Cotton redB
23850	Direct blue 14	Trypan blue	Congo blue 3B
23860	Direct blue 53	Evans blue	Diazol pure blue Geigy blue 536 med
24890	Direct yellow 4	Brilliant yellow	Yellow paper
26050	Solvent red 19	Sudan red 7B	Fast red 7B
26100	Solvent red 23	Sudan III	
26105	Solvent red 24	Sudan IV	Scarlett R (Michaelis) Fat ponceau
26125	Solvent red 27	Oil red 0	Sudan red 5B
26150	Solvent black 3	Sudan black B	Ceres black BN
26905	Acid red 66	Scarlett Biebrich	Imperial scarlett Brilliant ponceau S Ponceau red BS
27195	Acid red 112	Ponceau red S	Java scarlet
37025	Azoic Diazo No. 6	o-Nitroaniline	Orange GRS
37030		m-Nitroaniline	
37035	Azoic Diazo No. 37	p-Nitroaniline	Nitrazol CF Nitrosamine red
37235	Azoic diazo N. 48	Fast blue B salt	Dianisidine blue Diazo blue B salt Blue salt BNS
41000	Basic yellow 2	Auramine 0	Pyoctanine yellow
42000	Basic green 4	Malachite green	Vittoria green B China green
42040	Basic green 1	Brilliant green	Aniline green Diamone green Emerald green
42045	Acid blu 1	Eriogalucine	Disulphine blue V Sulphon blue
42053	Food green 3	Fast green FCF	
42090	Acid Blue 9	Erioglaucine	Alphazurine FG
42095	Acid green 5	Light green SF	Acid green F Acid green G Lissamine green SF
42135	Acid blue 147	Xilencyanol FF	Cyanol FF
42510	Basic violet 14	Rosanilin	Fuchsin brilliant
		Basic fuchsin	Rosaniline hydrocholride Magenta I
42535	Basic violet 1	Gentian violet	Methyl violet 2R

Colour Index	Colour Index Name	Commercial Name	Synonyms Index
42535	Basic violet 1	Violetto Metile 2 B	
42555	Basic violet 3	Crystal violet	Methyl violet 6B
42556	Basic green	Iodine green	
42563	Basic blue 8	Vittoria blue 4R	Fast Blue 4R
42585	Basic blue 20	Methyl green	
42600	Basic violet 4	Ethyl violet	Ethyl purple 6B
42655	Acid blue 90	Brilliant Indocyanin G	Coomassie brilliant blue G250 Eriosin Cyanin brilliant G
42660	Acid blue 83	Brilliant Indocyanin 6 B	Coomassie brilliant blue R Brilliant acid cyanine 6B
42685	Acid violet 19	Acid fuchsin	Fuchsin S Rubin S Acid Magenta
42755	Acid blue 22	Aniline blue (water soluble)	China blue Cotton blue Blu di Hofman Opal blue Water blue I
42765	Acid blue 119	Alkali blue 6B	Reflex blue AG
42775	Solvent blue 3	Aniline blue (alcohol soluble)	Light blue Lyon's blue Paris blue Gentian blue
42780	Acid blue 93	Methyl blue	Helvetia blue Soluble blue 8B Poirier's blue C4B
43800		Rosolic acid sodiu salt	Aurine (water soluble) Corollin (water soluble)
43820	Mordant blue 3	Chromoxane canine R	Cyanin R Solochrome Eriochrome canine R
43825	Mordant blue 29	Cromoxane pure blue BLD	Cromeazurol S
45005	Basic dye	Pyronine G	Pyronine Y
45170	Basic violet 10	Rhodamine B	Rhodamine O Brilliant rhodamine B
45350	Acid yellow 73	Fluorescein sodium salt	Uranin
45380	Acid red 87	Eosin Y (yellowish)	Tetrabromofluoresceina sodica
45386	Solvent red 45	Ethyl Eosin (alcohol soluble)	Eosin S
45400	Acid red 91	Eosina B (blue shade)	Eosin scarlet
45410	Acid red 92 (soluble in acqua)	Phloxin B	Cyanosin Magdala red Tetrabromotetrachlorofluoroscein Sodium salt
45430	Acid red 51	Erythrosin B	Erythrosin J
45440	Acid red 94	Rose Bengal	
46005	Basic orange 14	Acridine orange	Euchrysine
49700		Indophenol	Indophenol blue
50040	Basic red 5	Neutral red	Toluylene red Neophospine
50240	Basic red 2	Safranine 0	Cotton red
50420	Acid black 2	Nigrosine (water soluble)	Aniline blue black
51010	Basic dye	Brilliant cresyl blue	Cresyl blue BBS
51050	Mordant Blue 14	Celestine blue B	Coerin 2R
51180	Basic blue 12	Nilo blue A	Nilo blue BX
52000	Basic violet	Thionine acetate	Lauth's violet
52015	Basic blue 9	Methylene blue	
52040	Basic blue 17	Toluidine blue	
56085	Mordant dye	Murexide	
58000	Mordant red 11	Alizarin	
58005	Mordant red 3	Alizarin red S	
58500	Mordant violet-26	Quinizarin	Alizarin orange A Alizarina cianina 3R
60760	Pigment dyes	Nuclear fast red	Calcium red Kerneckrot Helio fast rubin BBL
61515	Solvent blue 19	Blu Oracet B	
73000	Vat blue 1	Indigo	Indigo blue
73015	Acid blue 74	Indigo carmine	Sodium indigo disulphonate
74240	Ingrain blue 1	Alcian blue 8GX	Alcian blue
75290	Natural black 1	Hematoxylin	Hematein
75300	Natural yellow 3	Curcumin	Curcuma
75470	Natural red 4	Acido carminico	Carminio Cocciniglia
75660	Natural Yellow 11	Morin	Fustic

SOLUTIONS CHEMISTRY

Freezing mixtures

Mixture	Solution concentration	Temperature °C
Ammonium chloride	solution 23 %	- 3° C
Potassium chloride	solution 20 %	- 12° C
Ammonium nitrate	solution 50 %	- 15° C
Sodium chloride	solution 25 %	- 21° C
Sodium nitrate	solution 33 %	- 24° C
Calcium chloride 6 H2O	solution 62 % - with ice	- 39° C
Calcium chloride 6 H2O	solution 59 % - with ice	- 55° C
Methanol or Acetone with dry ice		- 77° C

Molarity and normality chart for common acid and base solutions

			Volume required for a liter	
Acid	**Molarity**	**Normality**	*1 M solution*	*1 N solution*
Acetic acid 99.5%	17,4 M	17,4 N	57,5 ml	57,5 ml
Ammonia sol. 25%	13,2 M	13,2 N	75,6 ml	75,6 ml
Ammonia sol. 35%	18,5 M	18,5 N	54,0 ml	54,0 ml
Hydrochloric acid 37%	11,6 M	11,6 N	85,8 ml	85,8 ml
Hydrochloric acid 32%	10,2 M	10,2 N	98,2 ml	98,2 ml
Hydrofluoric acid 40%	22,6 M	22,6 N	44,2 ml	44,2 ml
Nitric acid 70%	15,7 M	15,7 N	63,7 ml	63,7 ml
Phosphoric acid 85%	14,7 M	44,2 N	67,8 ml	22,6 ml
Sulphuric acid 96%	18,0 M	36,0 N	55,5 ml	27,8 ml

Miscibility table

Xylene	Trichloroethylene	Toluene	Tetrahydrofurane	Pentane	Methyl-tert-butyl ether	Methyl-ethyl ketone	Isoctane	Ethyl Acetate	Hexane	Heptane	Dioxane	Dimethylsulfoxide	Dimethylformamide	Diethylether	Dichloromethane	1,2-Dichloroethane	Chloroform	Cyclohexane	Butyl Acetate	Benzene	n-propanol	n-butanol	Methanol	Isopropanol	Ethanol	Water	Acetonitrile	Acetone	Solvent	b.p. (°C)	UV (nm) cut off 1AU	d (g/mL) at 20°C	Refractive index at 20°C	Viscosity (cP) at 20°C
																													Acetone	56	330	0,786	1,359	0,32
				■			■		■	■								■											Acetonitrile	82	190	0,786	1,344	0,37
■	■	■	■	■	■	■	■	■	■	■				■	■	■	■	■	■	■		■							Water	100	190	0,998	1,333	1,00
																													Ethanol	78	210	0,789	1,360	1,20
																													Isopropanol	82	205	0,785	1,377	2,30
				■			■		■	■								■											Methanol	65	205	0,791	1,329	0,60
																										■			n-butanol	125	215	0,81	1,394	0,73
																													n-propanol	97	210	0,803	1,384	2,27
																										■			Benzene	80	280	0,879	1,501	0,65
																										■			Butyl Acetate	125	254	0,882	1,399	2,98
												■	■										■			■	■		Cyclohexane	81	200	0,779	1,426	1,00
																										■			Chloroform	61	245	1,498	1,946	0,57
																										■			1,2-Dichloroethane	84	225	1,257	1,444	0,79
																										■			Dichloromethane	41	233	1,326	1,424	0,44
												■														■			Diethylether	35	215	0,713	1,353	0,23
■				■			■		■	■								■											Dimethylformamide	155	268	0,944	1,431	0,85
■		■		■			■		■	■				■				■											Dimethysulfoxide	189	268	1,092	1,478	2,24
																													Dioxane	101	215	1,033	1,422	1,54
												■	■										■			■	■		Heptane	98	200	0,684	1,387	0,41
												■	■										■			■	■		Hexane	69	195	0,655	1,375	0,31
																										■			Ethyl Acetate	77	256	0,894	1,372	0,45
												■	■										■			■	■		Isoctane	99	215	0,692	1,392	0,51
																										■			Methyl-ethyl ketone	80	329	0,806	1,379	0,45
																										■			Methyl-tert-butyl ether	55	210	0,741	1,369	0,27
												■	■										■			■	■		Pentane	36	190	0,626	1,358	0,23
																										■			Tetrahydrofurane	65	212	0,886	1,407	0,55
													■													■			Toluene	111	284	0,867	1,496	0,59
■																										■			Trichloroethylene	87	273	1,462	1,477	0,57
	■											■	■													■			Xylene	139	288	0,861	1,500	0,61

CONVERSION TABLES

US and British measuring units and conversion factors

Lenght

1 mil	=	25,4 µm
1 inch	=	2,54000 centimetres
1 foot	=	30,48006 centimetres
1 yard	=	0,91440 metres
1 mile	=	1609,34 metres
1 mile (nautical)	=	1853,25 metres
1 millimetre	=	0,03937 inches
1 centimetre	=	0,3937 inches
1 metre	=	39,37 inches
1 metre	=	3,2028 foots
1 metre	=	1,09361 yards
1 kilometer	=	0,62136 miles
1 kilometer	=	0,53959 miles (nautical)

Volume

1 cubic inch	=	16,38716 cubic centimetres
1 cubic foot	=	28,31625 cubic decimetres
1 cubic yard	=	0,76456 cubic metres
1 cubic centimetre	=	0,06102 cubic inches
1 cubic decimetre	=	0,03531 cubic foots
1 cubic metre	=	1,30794 cubic yards

Capacity

1 quart (USA liquid)	=	0,94633 liters
1 gallon (USA)	=	3,78533 liters
1 barrel (USA)	=	0,11562 cubic metres
1 quart (UK)	=	1,13650 litres
1 gallon (UK)	=	4,5596 litres
1 barrel (UK)	=	0,16366 cubic metres
1 litre	=	1,056681 quarts (USA)
1 litre	=	0,264177 gallons (USA)
1 litre	=	0,87990 quarts (UK)
1 litre	=	0,219976 gallons (UK)

Weight (Mass)

1 grain	=	64,8o milligrams
1 dramma	=	1,772 grams
1 ounce (US)	=	28,3495 grams
1 pound	=	453,5924 grams
1 ton (short) (US)	=	907,18486 kilograms
1 ton (long) (UK)	=	1016,0470 kilograms
1 grams	=	15,4324 grains
1 gram	=	0,03527 ounces
1 kilogram	=	2,20462 pounds
1 metric ton.	=	1,10231 short tons (US)
1 metric ton	=	0,98420 long tons (UK)

Concentrations

		ppm	ppb	ppt	Potency	Proportion
%	**g/kg** **mg/g** **µg/mg**	**mg/kg** **µg/g** **ng/mg**	**µg/kg** **ng/g** **pg/mg**	**ng/kg** **pg/g** **fg/mg**		
1	10	10.000			1×10^{-2}	1: 100
0,5	5	5.000			5×10^{-3}	1: 500
0,1	1	1.000			1×10^{-3}	1: 1.000
0,05	0,5	500			5×10^{-4}	1: 5.000
0,01	0,1	100			1×10^{-4}	1: 10.000
0,005	0,05	50			5×10^{-5}	1: 50.000
0,001	0,01	10	10.000		1×10^{-5}	1: 100.000
0,000.5	0,005	5	5.000		5×10^{-6}	1: 500.000
0,000.1	0,001	1	1.000		1×10^{-6}	1: 1.000.000
0,000.05	0,0005	0,5	500		5×10^{-7}	1: 5.000.000
0,000.01	0,000.1	0,1	100		1×10^{-7}	1: 10.000.000
0,000.001	0,000.01	0,01	10	10.000	1×10^{-8}	1: 100.000.000
0,000.0001	0,000.001	0,001	1	1.000	1×10^{-9}	1: 1.000.000.000
			0,1	100	1×10^{-10}	1: 10.000.000.000
			0,01	10	1×10^{-11}	1: 100.000.000.000
			0,001	1	1×10^{-12}	1: 1.000.000.000.000

Transmittance vs Absorbance unit

% T	A.U.	% T	A.U.	% T	A.U.	% T	A.U.	% T	A.U.	% T	A.U.
0.5	2.301	17.5	0.757	34.5	0.462	51.5	0.288	68.5	0.164	85.5	0.068
1.0	2.000	18.0	0.745	35.0	0.456	52.0	0.284	69.0	0.161	86.0	0.066
1.5	1.824	18.5	0.733	35.5	0.450	52.5	0.280	69.5	0.158	86.5	0.063
2.0	1.699	19.0	0.721	36.0	0.444	53.0	0.276	70.0	0.155	87.0	0.060
2.5	1.620	19.5	0.710	36.5	0.438	53.5	0.271	70.5	0.152	87.5	0.058
3.0	1.523	20.0	0.699	37.0	0.432	54.0	0.268	71.0	0.149	88.0	0.056
3.5	1.469	20.5	0.688	37.5	0.426	54.5	0.263	71.5	0.146	88.5	0.053
4.0	1.398	21.0	0.678	38.0	0.420	55.0	0.260	72.0	0.143	89.0	0.051
4.5	1.347	21.5	0.667	38.5	0.414	55.5	0.256	72.5	0.140	89.5	0.048
5.0	1.301	22.0	0.658	39.0	0.409	56.0	0.252	73.0	0.137	90.0	0.046
5.5	1.260	22.5	0.647	39.5	0.403	56.5	0.248	73.5	0.134	90.5	0.043
6.0	1.222	23.0	0.638	40.0	0.398	57.0	0.244	74.0	0.131	91.0	0.041
6.5	1.187	23.5	0.628	40.5	0.392	57.5	0.240	74.5	0.128	91.5	0.039
7.0	1.155	24.0	0.620	41.0	0.387	58.0	0.237	75.0	0.125	92.0	0.036
7.5	1.125	24.5	0.611	41.5	0.382	58.5	0.233	75.5	0.122	92.5	0.034
8.0	1.097	25.0	0.602	42.0	0.377	59.0	0.229	76.0	0.119	93.0	0.032
8.5	1.071	25.5	0.593	42.5	0.372	59.5	0.225	76.5	0.116	93.5	0.030
9.0	1.046	26.0	0.585	43.0	0.367	60.0	0.222	77.0	0.114	94.0	0.027
9.5	1.022	26.5	0.577	43.5	0.361	60.5	0.218	77.5	0.111	94.5	0.025
10.0	1.000	27.0	0.569	44.0	0.357	61.0	0.215	78.0	0.108	95.0	0.022
10.5	0.979	27.5	0.561	44.5	0.351	61.5	0.211	78.5	0.105	95.5	0.020
11.0	0.959	28.0	0.553	45.0	0.347	62.0	0.208	79.0	0.102	96.0	0.018
11.5	0.943	28.5	0.545	45.5	0.342	62.5	0.204	79.5	0.099	96.5	0.015
12.0	0.921	29.0	0.538	46.0	0.337	63.0	0.201	80.0	0.097	97.0	0.013
12.5	0.903	29.5	0.530	46.5	0.332	63.5	0.197	80.5	0.094	97.5	0.011
13.0	0.886	30.0	0.523	47.0	0.327	64.0	0.194	81.0	0.092	98.0	0.009
13.5	0.870	30.5	0.516	47.5	0.323	64.5	0.190	81.5	0.089	98.5	0.006
14.0	0.854	31.0	0.509	48.0	0.319	65.0	0.187	82.0	0.086	99.0	0.004
14.5	0.838	31.5	0.502	48.5	0.314	65.5	0.184	82.5	0.083	99.5	0.002
15.0	0.824	32.0	0.495	49.0	0.310	66.0	0.180	83.0	0.081	100.0	0.000
15.5	0.810	32.5	0.488	49.5	0.305	66.5	0.177	83.5	0.078		
16.0	0.796	33.0	0.482	50.0	0.301	67.0	0.174	84.0	0.076		
16.5	0.782	33.5	0.475	50.5	0.297	67.5	0.171	84.5	0.073		
17.0	0.770	34.0	0.469	51.0	0.292	68.0	0.168	85.0	0.071		

Baumé vs specific gravity

Conversion rules at a temperature of 60°F:

For liquids more dense than water:

$$s.g. = \frac{145}{145 - \text{degrees Baumé}}$$

For liquids less dense than water:

$$s.g. = \frac{140}{130 + \text{degrees Baumé}}$$

°Be	Specific gravity	°Be	Specific gravity	°Be	Specific gravity	°Be	Specific gravity	°Be	Specific gravity	°Be	Specific gravity
103,33	0,60	36,67	0,84	10,74	1,08	34,73	1,32	51,45	1,55	63,77	1,79
101,40	0,61	35,68	0,85	11,36	1,09	35,15	1,32	51,75	1,56	63,99	1,79
99,51	0,61	34,71	0,85	11,97	1,09	35,57	1,33	52,05	1,56	64,22	1,80
97,64	0,62	33,74	0,86	12,58	1,10	35,98	1,33	52,35	1,57	64,44	1,80
95,81	0,62	32,79	0,86	13,18	1,10	36,39	1,34	52,64	1,57	64,67	1,81
94,00	0,63	31,85	0,87	13,78	1,11	36,79	1,34	52,94	1,58	64,89	1,81
92,22	0,63	30,92	0,87	14,37	1,11	37,19	1,35	53,23	1,58	65,11	1,82
90,47	0,64	30,00	0,88	14,96	1,12	37,59	1,35	53,52	1,59	65,33	1,82
88,75	0,64	29,09	0,88	15,54	1,12	37,99	1,36	53,81	1,59	65,55	1,83
87,05	0,65	28,19	0,89	16,11	1,13	38,38	1,36	54,09	1,60	65,77	1,83
85,38	0,65	27,30	0,89	16,68	1,13	38,77	1,37	54,38	1,60	65,98	1,84
83,74	0,66	26,42	0,90	17,25	1,14	39,16	1,37	54,66	1,61	66,20	1,84
82,12	0,66	25,56	0,90	17,81	1,14	39,55	1,38	54,94	1,61	66,41	1,85
80,53	0,67	24,70	0,91	18,36	1,15	39,93	1,38	55,22	1,62	66,62	1,85
78,96	0,67	23,85	0,91	18,91	1,15	40,31	1,39	55,49	1,62	66,83	1,86
77,41	0,68	23,01	0,92	19,46	1,16	40,68	1,39	55,77	1,63	67,04	1,86
75,88	0,68	22,17	0,92	20,00	1,16	41,06	1,40	56,04	1,63	67,25	1,87
74,38	0,69	21,35	0,93	20,54	1,17	41,43	1,40	56,31	1,64	67,46	1,87
72,90	0,69	20,54	0,93	21,07	1,17	41,80	1,41	56,59	1,64	67,67	1,88
71,44	0,70	19,73	0,94	21,60	1,18	42,16	1,41	56,85	1,65	67,87	1,88
70,00	0,70	18,94	0,94	22,12	1,18	42,53	1,42	57,12	1,65	68,08	1,89
68,58	0,71	18,15	0,95	22,64	1,19	42,89	1,42	57,39	1,66	68,28	1,89
67,18	0,71	17,37	0,95	23,15	1,19	43,25	1,43	57,65	1,66	68,48	1,90
65,80	0,72	16,60	0,96	23,66	1,20	43,60	1,43	57,91	1,67	68,68	1,90
64,44	0,72	15,83	0,96	24,17	1,20	43,95	1,44	58,17	1,67	68,88	1,91
63,10	0,73	15,08	0,97	24,67	1,21	44,31	1,44	58,43	1,68	69,08	1,91
61,78	0,73	14,33	0,97	25,17	1,21	44,65	1,45	58,69	1,68	69,28	1,92
60,48	0,74	13,59	0,98	25,66	1,22	45,00	1,45	58,95	1,69	69,48	1,92
59,19	0,74	12,86	0,98	26,15	1,22	45,34	1,46	59,20	1,69	69,68	1,93
57,92	0,75	12,13	0,99	26,63	1,23	45,68	1,46	59,45	1,70	69,87	1,93
56,67	0,75	11,41	0,99	27,11	1,23	46,02	1,47	59,71	1,70	70,06	1,94
55,43	0,76	10,70	1,00	27,59	1,24	46,36	1,47	59,96	1,71	70,26	1,94
54,21	0,76	0,72	1,01	28,06	1,24	46,69	1,48	60,20	1,71	70,45	1,95
53,01	0,77	1,44	1,01	28,53	1,25	47,03	1,48	60,45	1,72	70,64	1,95
51,82	0,77	2,14	1,02	29,00	1,25	47,36	1,49	60,70	1,72	70,83	1,96
50,65	0,78	2,84	1,02	29,46	1,26	47,68	1,49	60,94	1,73	71,02	1,96
49,49	0,78	3,54	1,03	29,92	1,26	48,01	1,50	61,18	1,73	71,21	1,97
48,34	0,79	4,22	1,03	30,38	1,27	48,33	1,50	61,43	1,74	71,40	1,97
47,22	0,79	4,90	1,04	30,83	1,27	48,65	1,51	61,67	1,74	71,58	1,98
46,10	0,80	5,58	1,04	31,27	1,28	48,97	1,51	61,91	1,75	71,77	1,98
43,91	0,81	6,24	1,05	31,72	1,28	49,29	1,52	62,14	1,75	71,95	1,99
42,84	0,81	6,90	1,05	32,16	1,29	49,61	1,52	62,38	1,76	72,14	1,99
41,78	0,82	7,56	1,06	32,60	1,29	49,92	1,53	62,61	1,76	72,32	2,00
40,73	0,82	8,21	1,06	33,03	1,30	50,23	1,53	62,85	1,77	72,50	2,00
39,70	0,83	8,85	1,07	33,46	1,30	50,54	1,54	63,08	1,77		
38,67	0,83	9,49	1,07	33,89	1,31	50,84	1,54	63,31	1,78		
37,66	0,84	10,12	1,08	34,31	1,31	51,15	1,55	63,54	1,78		

Normality and Molarity chart for common volumetric solutions

Volumetric solution	Normality	Molarity
Acetic acid	0.01 N	0.01 M
Acetic acid	0.1 N	0.1 M
Ammonium thiocyanate	0.01 N	0.01 M
Ammonium thiocyanate	0.1 N	0.1 M
Bromine	0.1 N	0.05 M
Cerium (IV) sulphate	0.1 N	0.1 M
Hydrochloric acid	0.01 N	0.01 M
Hydrochloric acid	0.1 N	0.1 M
Hydrochloric acid	0.5 N	0.5 M
Hydrochloric acid	1 N	1 M
Hydrochloric acid	2 N	2 M
Iodine	0.01 N	0.005 M
Iodine	0.1 N	0.05 M
Iodine	1 N	0.5 M
Litium methoxide	0.1 N	0.1 M
Mercuric perchlorate	0.01 N	0.01 N
Nitric acid	0.1 N	0.1 M
Nitric acid	1 N	1 M
Oxalic acid	0.01 N	0.005 M
Oxalic acid	0.1 N	0.05 M
Oxalic acid	1 N	0.5 M
Perchloric acid	0.01 N	0.01 M
Perchloric acid	0.1 N	0.1 M
Potassium bromate	0.1 N	0.0167 M
Potassium dichromate	0.1 N	0.0167 M
Potassium hydr. phtalate	0.1 N	0.1 M
Potassium hydroxide	0.1 N	0.1 M
Potassium hydroxide	0.25 N	0.25 M
Potassium hydroxide	0.5 N	0.5 M

Volumetric solution	Normality	Molarity
Potassium hydroxide	1 N	1 M
Potassium iodate	0.01 N	0.00167 M
Potassium iodate	0.1 N	0.0167 M
Potassium permanganate	0.01 N	0.002 M
Potassium permanganate	0.1 N	0.02 M
Potassium permanganate	1 N	0.2 M
Potassium thiocyanate	0.1 N	0.1 M
Silver nitrate	0.01 N	0.01 M
Silver nitrate	0.1 N	0.1 M
Silver nitrate	1 N	1 M
Sodium arsenite	0.1 N	0.05 M
Sodium carbonate	0.1 N	0.05 M
Sodium carbonate	1 N	0.5 M
Sodium chloride	0.1 N	0.1 M
Sodium hydroxide	0.01 N	0.01 M
Sodium hydroxide	0.1 N	0.1 M
Sodium hydroxide	0.25 N	0.25 M
Sodium hydroxide	1/2.82 N	1/2.82 M (0.357 mol/l)
Sodium hydroxide	0.5 N	0.5 M
Sodium hydroxide	1 N	1 M
Sodium hydroxide	2 N	2 M
Sodium thiosulphate	0.01 N	0.01 M
Sodium thiosulphate	0.1 N	0.1 M
Sodium thiosulphate	1 N	1 M
Sulphuric acid	0.01 N	0.005 M
Sulphuric acid	0.1 N	0.05 M
Sulphuric acid	0.5 N	0.25 M
Sulphuric acid	1 N	0.5 M
Sulphuric acid	2 N	1 M

Mesh size conversion table

Mesh size	Micron size approximate	Millimeters approximate	Inches
4	4760	4,760	0,185
6	3360	3,360	0,131
8	2380	2,380	0,093
12	1680	1,680	0,065
16	1190	1,190	0,046
20	840	0,840	0,0328
30	590	0,590	0,0232
40	420	0,420	0,0164
50	297	0,297	0,0116
60	250	0,250	0,0097
70	210	0,210	0,0082
80	177	0,177	0,0069
100	149	0,149	0,0058
140	105	0,105	0,0041
200	74	0,074	0,0029
230	62	0,062	0,0024
270	53	0,053	0,0021
325	44	0,044	0,0017
400	37	0,037	0,0015
625	20	0,020	0,0008
1250	10	0,010	0,0004
2500	5	0,005	0,0002

SAFETY IN THE LABORATORY

Alterable chemical products

The expiration date of all of our reagents is printed on both the label and the certificate of analysis. It applies to products stored in their original and intact packaging and away from heat and light as specified in the safety data sheet.

Once that an alterable product has been opened, the final user should determine the expiry date of the product basis on a risk analysis that includes the following parameters:

- Systematic risk
- Chemical risk
- Utilisation risk

Our range of products includes some alterable chemical products that, due to their own chemical properties, may be subject to an alteration during the time.

We indicate here below with some abbreviations the most common types of alteration found on our alterable products.

A: Alterable molecule
C: Colour change
D: Deliquescent
F: Interaction with the content
ID: Hydrolisable
IG: Hygroscope
M: Formation of an insoluble precipation
O: Oxidation
P: Polymerisation

Products	Alterability
Diethylene Glycol dimethylether	O
Diethylene Glycol monobutylether	O
Diethylene Glycol monoethylether	O
Diethylether not stabilized	O
Diethylsulfate	ID-C
Dihydroxyacetone	ID-D
Dimethylaminonaphtalene-5 -sulfonyl chloride	ID
Dimethylsulfate	ID-C
Diphenylamine	C
Diphenyldithiocarbazide	O-C
Ergometrine maleate	A
Ergometrine tartrate	A
Ethyl formate	ID
Ethyl-5-methylpyridine-2	C
Ethylaniline	C
Ethylchloroacetate	O
Ethylene Glycol dimethylether	O
Ethylene Glycol monoethylether	O
Ethylene Glycol monoethylether acetate	O
Ethylene Glycol monomethylether	O
Formaldehyde 40% w/v	O-P
Formic acid 99%	O
Furan	C-O
Furfural	C
Furfuryl alcohol	C
Gaiacol	C
Hanus's reagent	A
Heptanal	O
Hydrazine hydroxyde	A
Hydrazine solution	A
Hydrogen peroxide	A
Hydrogen sulfide saturated solution	O-M
Hydroquinone monomethylether	O

Products	Alterability
Iodine trichloride	F
Karl Fisher reagent	IG
Lutidine (2,4)	C
Magnesium perchlorate	IG
Magnesium peroxide	A
Methyl isobutylacetone	C
Methyldichloroacetate	ID
mono-Ethanolamine	C
n,n-Diethylaniline	C
n,n-Dimethylphenylenediamine	
n-Ethyl piperidine	C
Nitric acid fuming 90%	F
n-Methylaniline	C
Orthophosphoric acid 99%	O
Orthophosphoric acid 99%	IG
p-Dimethylaminobenzaldehyde	C
Phenol	C
Phosphomolybdic acid	C
Phosphorous pentachloride	F
Phosphorus pentoxide	IG
Picoline	C
Piperidine	C
Piruvic acid	P
Potassium ethyl xantogenate	ID
Potassium metabisulfite	O
p-Oxalate	C
p-phenetidin	C
Propionaldehyde	O
Propionitrile	C
Protonaldehyde	C-O
p-Toluidine	C
Pyridine hydrochloride	IG
Pyrrole	C
Pyrrolidine	C

Products	Alterability
Salicylaldehyde	O-C
Silver diethylcarbamate	C
Soda lime	A
Sodium acetate anhydrous	IG
Sodium citrate tribasic anhydrous	IG
Sodium cyanide solution	A
Sodium hydrate and hypochloride solution	A-O
Sodium hydrosulfite	O
Sodium hypochloride solution	A-O
Sodium metabisulfite	O
Sodium methylate	ID
Sodium sulfide nonahydrate	C-IG
Starch solution 1%	M
Strontium iodide	C
Styrene	P
Succinic anhydride	ID
Sulfuric acid 96%	C
Sulphurous acid saturated solution	O
sym-Diphenylcarbazide	C
Sym-Tetrabromoethane	A
Sym-Tetrachloroethane	A
Tetrahydrofurfuryl alcohol	C-D
Tin chloride anhydrous	A
Titanium trichloride 15%	M
Trichloroacetic acid solution 20%	A
Triphenylchloromethane	F
Vitamin A acetate	A
Vitamin A palmitate	A
Water chlorine saturated solution	A
Zinc oxide	IG

Incompatible chemical products

ACETIC ACID	Nitric acid Perchloric acid Alcohols Chromium oxide Ethylen glycol Permanganates Peroxides
HYDROFLUORIC ACID	Ammonia
NITRIC ACID CONCENTRATED	Acetic acid Hydrocyanic acid Aniline Chromium oxide Hydrogen sulphide Flammable liquids and gasses
OXALIC ACID	Silver Mercury
PERCHLORIC ACID	Alcohols Acetic anhydride Bismuth and its alloys Paper Wood
SULPHURIC ACID	Potassium chlorate Potassium perchlorate Potassium permanganate
AMMONIA	Hydrofluoric acid Bromine Chlorine Iodine Calcium hypoclorite Mercury
AMMONIUM NITRATE	Acids Chlorates Flammable liquids Nitrates Metallic powders Flammable organic substances Sulphur
ANILINE	Nitric acid Hydrogen peroxide
SILVER	Acetiyene Oxalic acid Tartaric acid Ammonium salts
BROMINE AND CHLORINE	Acetylene Ammonia Benzene Petroleum ether Butadiene Butane Hydrogen Methane Propane Metallic powders
CYANIDES	Acids
CHLORATES	Acidi Metallic powders Ammonium salts Flammable organic substances Sulphur

CHROMIUM OXIDE	Acetic acid Alcohols Petroleum ether Canphor Glycerol Flammable liquids Naphthalin
PHOSPHORUS	Oxigenated combinations Sulpur
HYDROCARBONS	Bromine Chlorine Chromium oxide Fluorine Sodium peroxide
IODINE	Acetylene Ammonia
FLAMMABLE LIQUIDS	Nitric acid Halogens Ammonium nitrate Chromium oxide Hydrogen peroxide Sodium peroxide
MERCURY	Acetylene Ammonia
ALKALY METALS	Water Halogens Carbon dioxide Carbon tetrachloride other Halogenated alkanes
HYDROGEN PEROXIDE	Acetone Alcohols Aniline Chromium Copper Iridium Metals and metallic salts Nitromethane Organic substances Flammable substances
POTASSIUM PERMANGANATE	Sulphuric acid Benzaldehyde Ethylen glycol Glycerol
COPPER	Acetilene Hydrogen peroxide
SODIUM PEROXIDE	Acetic acid Ethyl alcohol Methyl alcohol Acetic anhydride Benzaldehyde Ethyil acetate Ethylen glycol Furfurol Carbon disulfide

HAZARD STATEMENTS

H200	Unstable explosives.
H201	Explosive; mass explosion hazard.
H202	Explosive, severe projection hazard.
H203	Explosive; fire, blast or projection hazard.
H204	Fire or projection hazard.
H205	May mass explode in fire.
H220	Extremely flammable gas.
H221	Flammable gas.
H222	Extremely flammable aerosol.
H223	Flammable aerosol.
H224	Extremely flammable liquid and vapour.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H228	Flammable solid.
H240	Heating may cause an explosion.
H241	Heating may cause a fire or explosion.
H242	Heating may cause a fire.
H250	Catches fire spontaneously if exposed to air.
H251	Self-heating: may catch fire.
H252	Self-heating in large quantities; may catch fire.
H260	In contact with water releases flammable gases which may ignite spontaneously.
H261	In contact with water releases flammable gases.
H270	May cause or intensify fire; oxidiser.
H271	May cause fire or explosion; strong oxidiser.
H272	May intensify fire; oxidiser.
H280	Contains gas under pressure; may explode if heated.
H281	Contains refrigerated gas; may cause cryogenic burns or injury.
H290	May be corrosive to metals.
H300	Fatal if swallowed.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H310	Fatal in contact with skin.
H311	Toxic in contact with skin
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H340	May cause genetic defects.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H351	Suspected of causing cancer.
H360	May damage fertility or the unborn child.
H361	Suspected of damaging fertility or the unborn child.
H362	May cause harm to breast-fed children.
H370	Causes damage to organs.
H371	May cause damage to organs.
H372	Causes damage to organs through prolonged or repeated exposure exposure cause the hazard.
H373	May cause damage to organs through prolonged or repeated exposure exposure cause the hazard.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

PRECAUTIONARY STATEMENTS

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read label before use.
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P211	Do not spray on an open flame or other ignition source.
P220	Keep/Store away from clothing/... /combustible materials.
P221	Take any precaution to avoid mixing with combustibles...
P222	Do not allow contact with air.
P223	Keep away from any possible contact with water, because of violent reaction and possible flash fire.
P230	Keep wetted with...
P231	Handle under inert gas.
P232	Protect from moisture.
P231+P232	Handle under inert gas. Protect from moisture.
P233	Keep container tightly closed.
P234	Keep only in original container.
P235	Keep cool.
P235+P410	Keep cool. Protect from sunlight.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting/.../equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P244	Keep reduction valves free from grease and oil.
P250	Do not subject to grinding/shock/.../friction.
P251	Pressurized container: Do not pierce or burn, even after use.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P262	Do not get in eyes, on skin, or on clothing.
P263	Avoid contact during pregnancy/while nursing.
P264	Wash ... thoroughly after handling.
P270	Do no eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P281	Use personal protective equipment as required.
P282	Wear cold insulating gloves/face shield/eye protection.
P283	Wear fire/flame resistant/retardant clothing.
P284	Wear respiratory protection.
P285	In case of inadequate ventilation wear respiratory protection.
P301	IF SWALLOWED.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P301+P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P301+P330+P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P302	IF ON SKIN.
P302+P334	IF ON SKIN: Gently wash with plenty of soap and water.
P302+P350	IF ON SKIN: Wash with plenty of soap and water.
P302+P352	IF ON SKIN: Immerse in cool water/wrap in wet bandages.
P303	IF ON SKIN (or hair).
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304	IF INHALED.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P304+P341	IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305	IF IN EYES.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P306	IF ON CLOTHING.
P306+P360	IF ON CLOTHING: rinse immediately contaminated clothing and skin with plenty of water before removing clothes.
P307	IF exposed
P307+P311	IF exposed: Call a POISON CENTER or doctor/physician.

P308	IF exposed or concerned.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P309	IF exposed or if you feel unwell.
P309+P311	IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.
P310	Immediately call a POISON CENTER or doctor/physician.
P311	Call a POISON CENTER or doctor/physician.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P313	Get medical advice/attention.
P314	Get medical advice/attention if you feel unwell.
P315	Get immediate medical advice/attention.
P320	Specific treatment is urgent (see... on this label).
P321	Specific treatment (se ... on this label).
P322	Specific measures (see... on this label).
P330	Rinse mouth.
P331	Do NOT induce vomiting.
P332	If skin irritation occurs.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P333	If skin irritation or rash occurs.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P334	Immerse in cool water/wrap in wet bandages.
P335	Brush off loose particles from skin.
P335+P334	Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages.
P336	Thaw frosted parts with lukewarm water. Do no rub affected area.
P337	If eye irritation persists.
P337+P313	If eye irritation persists: Get medical advice/attention.
P338	Remove contact lenses, if present and easy to do. Continue rinsing.
P340	Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P341	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
P342	If experiencing respiratory symptoms.
P342+P311	If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
P350	Gently wash with plenty of soap and water.
P351	Rinse cautiously with water for several minutes.
P352	Wash with plenty of soap and water.
P353	Rinse skin with water/shower.
P360	Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.
P361	Remove/Take off immediately all contaminated clothing.
P362	Take off contaminated clothing and wash before reuse.
P363	Wash contaminated clothing before reuse.
P370	In case of fire.
P370+P376	In case of fire: Stop leak if safe to do so.
P370+P378	In case of fire: Use ... for extinction.
P370+P380	In case of fire: Evacuate area.
P370+P380+P375	In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.
P371	In case of major fire and large quantities.
P371+P380+P375	In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.
P372	Explosion risk in case of fire.
P373	DO NOT fight fire when fire reaches explosives.
P374	Fight fire with normal precautions from a reasonable distance.
P375	Fight fire remotely due to the risk of explosion.
P376	Stop leak if safe to do so.
P377	Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
P378	Use ... for extinction.
P380	Evacuate area.
P381	Eliminate all ignition sources if safe to do so.
P390	Absorb spillage to prevent material damage.
P391	Collect spillage.
P401	Store ...
P402	Store in a dry place.
P402+P404	Store in a dry place. Store in a closed container.
P403	Store in a well-ventilated place.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P403+P235	Store in a well-ventilated place. Keep cool.
P404	Store in a closed container.
P405	Store locked up.

P406	Store in corrosive resistant/... container with a resistant inner liner.
P407	Maintain air gap between stacks/pallets.
P410	Protect from sunlight.
P410+P412	Protect from sunlight. Do no expose to temperatures exceeding 50 °C/122 °F.
P411	Store at temperatures not exceeding ... °C.
P411+P235	Store at temperatures not exceeding ... °C.
P412	Do not expose to temperatures exceeding 50 °C/122 °F.
P413	Store bulk masses greater than ... kg.
P420	Store away from other materials.
P422	Store contents under ...
P501	Dispose of contents/container to ...

ADDITIONAL STATEMENTS

EUH 001	Explosive when dry.
EUH 006	Explosive with or without contact with air.
EUH 014	Reacts violently with water.
EUH 018	In use, may form flammable/explosive vapour-air mixture.
EUH 019	May form explosive peroxides.
EUH 029	Contact with water liberates toxic gas .
EUH 031	Contact with acids liberates toxic gas.
EUH 032	Contact with acids liberates very toxic gas.
EUH 044	Risk of explosion if heated under confinement.
EUH 059	Hazardous to the ozone layer.
EUH 066	Repeated exposure may cause skin dryness or cracking.
EUH 070	Toxic by eye contact.
EUH 071	Corrosive to the respiratory tract.
EUH 201	Contains lead. Should not be used on surfaces liable to be chewed or sucked by children.
EUH 201A	Warning! Contains lead.
EUH 202	Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children.
EUH 203	Contains chromium (VI). May produce an allergic reaction.
EUH 204	Contains isocyanates. May produce an allergic reaction.
EUH 205	Contains epoxy constituents. May produce an allergic reaction.
EUH 206	Warning! Do not use together with other products. May release dangerous gases (chlorine).
EUH 207	Warning! Contains cadmium. Dangerous fumes are formed during use. See information supplied by the manufacturer. Comply with the safety instructions.
EUH 208	Contains (name of sensitising substance). May produce an allergic reaction.
EUH 209	Can become highly flammable in use.
EUH 209A	Can become flammable in use.
EUH 201	Safety data sheet available on request.
EUH 401	To avoid risks to human health and the environment, comply with the instructions for use.

INDEXES

ERBApharm®

Your requirements are our mission

ERBApharm is the range of products developed by CARLO ERBA Reagents for the pharmaceutical market:

- Starting Material, Intermediates, Reagents for API
- Bulk Pharmaceutical Excipients
- Pharmaceutical Solutions

Our production facilities in France are IPEC 2006 compliant and are declared to the French authorities (ANSM) under the regulation Decree N°2008-109 for the production of raw materials for pharmaceutical use.

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306755	Sulfuric acid 96% (66°Be)	677
307001000	Sulfuric acid 35% (30°Be)	679
307112	Stearic acid	667
307115	Stearic acid	667
307152	Tannic acid	687
307153	Tannic acid	687
307157	Tannic acid	687
307301	L(+) Tartaric Acid	688
307304	L(+) Tartaric Acid	688
307307	L(+) Tartaric Acid	688
307309	L(+) Tartaric Acid	688
307357	L(+) Tartaric Acid	688
307359	L(+) Tartaric Acid	688
307557	Trichloroacetic acid	712
307558	Trichloroacetic acid	712
307581	Water	729
307582	Water	729
307583	Water	729
307584	Water	729
307585	Water	729
307586	Water	729
307587	Water	729
307591	Water	729
307602	Water purified	731
307603	Water purified	731
307604	Water purified	731
307671	Hydrogen peroxide solution 3%	389
307678	Hydrogen peroxide solution 3%	389
307685	Hydrogen peroxide solution 30%	388
307701	Hydrogen peroxide solution 40% w/v	386
307708	Hydrogen peroxide solution 40% w/v	386
307709	Hydrogen peroxide solution 40% w/v	386
307901	n-Amyl alcohol	166
308001	Isoamyl alcohol	409
308003	Isoamyl alcohol	409
308131	Benzyl alcohol	188
308132	Benzyl alcohol	188
308138	Benzyl alcohol	188
308251	Butanol-1	213
308257	Butanol-1	213
308259	Butanol-1	213
308301	Isobutanol	409
308303	Isobutanol	409
308357	Cetyl alcohol	241
308358	Cetyl alcohol	241
308359	Cetyl alcohol	241
308600	Ethanol absolute anhydrous	313
308601	Ethanol absolute anhydrous	313
308602	Ethanol absolute anhydrous	313
3086022	Ethanol absolute anhydrous	313
308603	Ethanol absolute anhydrous	313
3086032	Ethanol absolute anhydrous	313
308604	Ethanol absolute anhydrous	313
308605	Ethanol absolute anhydrous	313
3086052	Ethanol absolute anhydrous	313
308607	Ethanol absolute anhydrous	313
3086072	Ethanol absolute anhydrous	313
308608	Ethanol absolute anhydrous	313
308609	Ethanol absolute anhydrous	313
308621	Ethanol 94° denaturated	318
308623	Ethanol 94° denaturated	318
308624	Ethanol 94° denaturated	318
308625	Ethanol 94° denaturated	318
308640	Ethanol 96°	315
308641	Ethanol 96°	315
3086412	Ethanol 96°	315
308644	Ethanol 96°	315
3086442	Ethanol 96°	315
308645	Ethanol 96°	315
308646	Ethanol 96°	315
308647	Ethanol 96°	315
3086472	Ethanol 96°	315
308648	Ethanol 96°	315
308649	Ethanol 96°	315
3086492	Ethanol 96°	315
308651	Ethanol absolute denaturated	317
308652	Ethanol absolute denaturated	317
308653	Ethanol absolute denaturated	317
308655	Ethanol absolute denaturated	317
308656	Ethanol absolute denaturated	317
308661	Ethanol absolute anhydrous	313
3086612	Ethanol absolute anhydrous	313
308662	Ethanol absolute anhydrous	313
3086622	Ethanol absolute anhydrous	313
308663	Ethanol absolute anhydrous	313
308664	Ethanol absolute anhydrous	313
308667	Ethanol absolute anhydrous	313
308681	Ethanol 90° denaturated	318
308682	Ethanol 90° denaturated	318
308683	Ethanol 90° denaturated	318
308687	Ethanol 90° denaturated	318
308731	2-Phenylethanol	527
308771	Ethanol 70 % v/v	316
308775	Ethanol 70 % v/v	316
309000	Methanol	458
309001	Methanol	458

309002	Methanol	458
309004	Methanol	458
309008	Methanol	458
309009	Methanol	458
309201	Methanol	458
309203	Methanol	458
309204	Methanol	458
309351	Propan-1-ol	573
309352	Propan-1-ol	573
309353	Propan-1-ol	573
309354	Propan-1-ol	573
309358	Propan-1-ol	573
309500	Propan-2-ol	576
309501	Propan-2-ol	576
309503	Propan-2-ol	576
309504	Propan-2-ol	576
309505	Propan-2-ol	576
309506	Propan-2-ol	576
309507	Propan-2-ol	576
309509	Propan-2-ol	576
310348	Formaldehyde 35% w/w	337
310349	Formaldehyde 35% w/w	337
310351	Formaldehyde 35% w/w	337
310355	Formaldehyde 35% w/w	337
310356	Formaldehyde 35% w/w	337
310358	Formaldehyde 35% w/w	337
310504	Propionaldehyde	578
311002	Aluminum ammonium sulfate dodecahydrate	140
311004	Aluminum ammonium sulfate dodecahydrate	140
311009	Aluminum ammonium sulfate dodecahydrate	140
311252	Aluminum chloride hexahydrate	140
311254	Aluminum chloride hexahydrate	140
311257	Aluminum chloride hexahydrate	140
311734	Aluminum hydroxide	141
312001	Aluminum nitrate nonahydrate	141
312007	Aluminum nitrate nonahydrate	141
312008	Aluminum nitrate nonahydrate	141
312252	Aluminum oxide	142
312258	Aluminum oxide	142
312259	Aluminum oxide	142
312261	Aluminum oxide activated	143
312401	Aluminum potassium sulfate dodecahydrate	143
312402	Aluminum potassium sulfate dodecahydrate	143
312404	Aluminum potassium sulfate dodecahydrate	143
312508	Aluminum potassium sulfate dodecahydrate	143
312751	Aluminum sulfate	144
312752	Aluminum sulfate	144
312753	Aluminum sulfate	144
313071	Maize starch	444
313072	Maize starch	444
313073	Maize starch	444
313102	Rice starch	589
313104	Rice starch	589
313107	Rice starch	589
313108	Rice starch	589
313109	Rice starch	589
313251	Isoamyl acetate	408
313252	Isoamyl acetate	408
313431	Tris (hydroxymethyl)-amino-methane	720
313432	Tris (hydroxymethyl)-amino-methane	720
313502	Ammonium acetate	152
313504	Ammonium acetate	152
313507	Ammonium acetate	152
313508	Ammonium acetate	152
313601	Ammonium bicarbonate	153
313887	Ammonium carbonate	154
313889	Ammonium carbonate	154
313895	tri-Ammonium citrate	156
313951	Ammonium chloride	155
313952	Ammonium chloride	155
313954	Ammonium chloride	155
313956	Ammonium chloride	155
313957	Ammonium chloride	155
314001	Ammonium chloride	155
314002	Ammonium chloride	155
314261	Ammonium hydrogen difluoride	158
314263	Ammonium hydrogen difluoride	158
314504	Ammonium phosphate monobasic	163
314505	Ammonium phosphate monobasic	163
314507	Ammonium phosphate monobasic	163
314757	Ammonium phosphate dibasic	163
314758	Ammonium phosphate dibasic	163
314861	Ammonia solution 28%	148
314863	Ammonia solution 28%	148
314866	Ammonia solution 28%	148
314871	Ammonia solution 30%	148
314873	Ammonia solution 30%	148
315502	Ammonium nitrate	161
315509	Ammonium nitrate	161
316002	Ammonium persulfate	162
316008	Ammonium persulfate	162
316251	Ammonium sulfate	164
316252	Ammonium sulfate	164
316257	Ammonium sulfate	164
316303	Ammonium thiocyanate	165
316307	Ammonium thiocyanate	165
316308	Ammonium thiocyanate	165
316501	Acetic anhydride	125
316502	Acetic anhydride	125
316503	Acetic anhydride	125
317511	Chromium (VI) oxide solution	253
317753	Phosphorus pentoxide	531
318007	Phthalic anhydride	533
318507	Succinic anhydride	670
319502	Silver acetate	603
319507	Silver acetate	603
320002	Silver carbonate	603
320007	Silver carbonate	603
320502	Silver chloride	603
320504	Silver chloride	603
320904	Silver nitrate	604
320907	Silver nitrate	604
321502	Barium carbonate	179
321507	Barium carbonate	179
321553	Canada balsam	233
321554	Canada balsam	233
321752	Barium chloride dihydrate	180
321757	Barium chloride dihydrate	180
321758	Barium chloride dihydrate	180
322001	Barium hydroxide octahydrate	182
322004	Barium hydroxide octahydrate	182
322007	Barium hydroxide octahydrate	182
322009	Barium hydroxide octahydrate	182
322401	Barium peroxide	183
322607	Barium sulfate	184
322721	Benzalkonium chloride	185
322737	Benzalkonium chloride	185
322738	Benzalkonium chloride	185
323101	Benzyl benzoate	189
323102	Benzyl benzoate	189
323401	Petroleum ether 55 - 85°C	520
323402	Petroleum ether 55 - 85°C	520
323403	Petroleum ether 55 - 85°C	520
323501	Petroleum ether 80 - 100°C	519
323502	Petroleum ether 80 - 100°C	519
323503	Petroleum ether 80 - 100°C	519
324185	Bismuth(III) nitrate pentahydrate	192
325601	n-Butyl acetate	215
325602	n-Butyl acetate	215
325603	n-Butyl acetate	215
325604	n-Butyl acetate	215
325631	Isobutyl acetate	410
325633	Isobutyl acetate	410
325741	Cadmium chloride monohydrate	220
326356	Caffeine anhydrous	221
326357	Caffeine anhydrous	221
326358	Caffeine anhydrous	221
326454	Calcium hydroxide	228
326458	Calcium hydroxide	228
326503	Calcium acetate anhydrous	222
326507	Calcium acetate anhydrous	222
326511	Calcium acetate anhydrous	222
326512	Calcium acetate anhydrous	222
326513	Calcium acetate anhydrous	222
327002	Calcium carbonate	224
327003	Calcium carbonate	224
327059	Calcium carbonate	224
327101	Calcium carbonate	224
327105	Calcium carbonate	224
327507	Calcium chloride hexahydrate	226
327509	Calcium chloride hexahydrate	226
327603	Calcium chloride dihydrate	225
327607	Calcium chloride dihydrate	225
327609	Calcium chloride dihydrate	225
328252	Calcium chloride anhydrous	224
328257	Calcium chloride anhydrous	224
328258	Calcium chloride anhydrous	224
328757	Calcium chloride anhydrous	225
328759	Calcium chloride anhydrous	225
328807	Calcium chloride anhydrous	225
328809	Calcium chloride anhydrous	225
330303	Calcium phosphate dibasic dihydrate	229
330307	Calcium phosphate dibasic dihydrate	229
330403	Calcium phosphate tribasic	230
330407	Calcium phosphate tribasic	230
330409	Calcium phosphate tribasic	230
330608	Calcium gluconate	227
330609	Calcium gluconate	227
331003	Calcium hydroxide	227
331007	Calcium hydroxide	227
331008	Calcium hydroxide	227
331407	Calcium lactate	228
331408	Calcium lactate	228
331501	Calcium nitrate tetrahydrate	228
331509	Calcium nitrate tetrahydrate	228
331554	Calcium oxide, lumps	229
331557	Calcium oxide, lumps	229
331564	Calcium oxide, powder	229
331567	Calcium oxide, powder	229
331751	Calcium sulfate dihydrate	231
331752	Calcium sulfate dihydrate	231
331761	Calcium sulfate hemihydrate	231
331762	Calcium sulfate hemihydrate	231
331763	Calcium sulfate hemihydrate	231
332261	Calcium stearate	231
332262	Calcium stearate	231
332265	Calcium stearate	231
332356	Camphor natural	233
332402	Camphor synthetic	233
332406	Camphor synthetic	233
332573	Kaolin washed	415
332574	Kaolin washed	415
332658	Charcoal vegetable	242
332659	Charcoal vegetable	242
333701	Quinoline	584
333707	Quinoline	584
333751	Cyclohexane	270
333752	Cyclohexane	270
333753	Cyclohexane	270
333801	Cyclohexanol	271

333901	Cyclohexanone	271
333902	Cyclohexanone	271
333905	Cyclohexanone	271
334251	Chlorobenzene	244
334254	Chlorobenzene	244
334255	Chlorobenzene	244
334351	Chloroform	248
334353	Chloroform	248
334354	Chloroform	248
334355	Chloroform	248
334356	Chloroform	248
336457	Chromium (III) potassium sulfate dodecahydrate	253
336458	Chromium (III) potassium sulfate dodecahydrate	253
337001	Diacetone alcohol	277
337002	Diacetone alcohol	277
337004	Diacetone alcohol	277
337251	o-Dichlorobenzene	279
337303	p-Dichlorobenzene	280
337307	p-Dichlorobenzene	280
337315	Dichloromethane	285
337331	Dichloromethane	285
337333	Dichloromethane	285
337335	Dichloromethane	285
337337	Dichloromethane	285
337501	Diethylamine	287
337801	Diethanolamine	287
338001	1,4-Dioxane	302
338002	1,4-Dioxane	302
338003	1,4-Dioxane	302
338004	1,4-Dioxane	302
338005	1,4-Dioxane	302
338112	Diethyl phthalate	291
338113	Diethyl phthalate	291
338114	Diethyl phthalate	291
338115	Diethyl phthalate	291
338121	n,n-Diethyl-p-phenylenediamine sulfate	291
338124	n,n-Diethyl-p-phenylenediamine sulfate	291
339381	n-Heptane 99%	358
339382	n-Heptane 99%	358
339385	n-Heptane 99%	358
339386	n-Heptane 99%	358
339751	n-Hexane	364
339752	n-Hexane	364
339755	n-Hexane	364
339756	n-Hexane	364
339757	n-Hexane	364
339758	n-Hexane	364
339759	n-Hexane	364
339851	Hexane mixture of isomers	365
339852	Hexane mixture of isomers	365
339856	Hexane mixture of isomers	365
340151	1,2-Dichloroethane	281
340155	1,2-Dichloroethane	281
340731	Diethyl ether	290
340751	Diethyl ether	290
340752	Diethyl ether	290
340759	Diethyl ether	290
340762	Diethyl ether	291
340765	Diethyl ether	291
341022	Petroleum ether 40 - 70°C	520
341024	Petroleum ether 40 - 70°C	520
341032	Petroleum ether 30 - 50°C	522
341034	Petroleum ether 30 - 50°C	522
341502	Ethyl acetate	322
341503	Ethyl acetate	322
341506	Ethyl acetate	322
341751	Ethyl acetoacetate	322
342101	Ethyl formate	328
343001	Tetrachloroethylene	693
343003	Tetrachloroethylene	693
343407	Phenol	524
343408	Phenol	524
343411	Phenol liquified 85%	524
343412	Phenol liquified 85%	524
343414	Phenol liquified 85%	524
343441	Iron (III) ammonium citrate red	402
343442	Iron (III) ammonium citrate red	402
343443	Iron (III) ammonium citrate red	402
343605	Iron (III) ammonium citrate green	402
343606	Iron (III) ammonium citrate green	402
343607	Iron (III) ammonium citrate green	402
344003	Iron (II) ammonium sulfate hexahydrate	403
344007	Iron (II) ammonium sulfate hexahydrate	403
344008	Iron (II) ammonium sulfate hexahydrate	403
344107	Iron (III) ammonium sulfate dodecahydrate	402
344108	Iron (III) ammonium sulfate dodecahydrate	402
344201	Iron (III) citrate	406
344202	Iron (III) citrate	406
344504	Iron (III) chloride hexahydrate	405
344507	Iron (III) chloride hexahydrate	405
344508	Iron (III) chloride hexahydrate	405
344509	Iron (III) chloride hexahydrate	405
344957	Iron (II) sulfate heptahydrate	407
344959	Iron (II) sulfate heptahydrate	407
345355	Fluorescein sodium salt	335
345356	Fluorescein sodium salt	335
345357	Fluorescein sodium salt	335
346102	Glycerol (30°Bé)	350
346106	Glycerol (30°Bé)	350
346131	Glycerol 90% (28° Bé)	350
346132	Glycerol 90% (28° Bé)	350
346134	Glycerol 90% (28° Bé)	350
346161	Glycerol (30°Bé)	350
346162	Glycerol (30°Bé)	350
346164	Glycerol (30°Bé)	350
346165	Glycerol (30°Bé)	350
346167	Glycerol (30°Bé)	350
346205	Glycine	351
346207	Glycine	351
346208	Glycine	351
346301	Diethylene glycol	288
346303	Diethylene glycol	288
346304	Diethylene glycol	288
346501	Ethylene glycol	327
346502	Ethylene glycol	327
346503	Ethylene glycol	327
346504	Ethylene glycol	327
346509	Ethylene glycol	327
346701	Propylene glycol	579
346703	Propylene glycol	579
346705	Propylene glycol	579
346708	Propylene glycol	579
346971	D(+)Glucose monohydrate	348
346972	D(+)Glucose monohydrate	348
346973	D(+)Glucose monohydrate	348
346983	D(+)Glucose anhydrous	348
346987	D(+)Glucose anhydrous	348
346989	D(+)Glucose anhydrous	348
347107	Gum arabic	354
347354	Lanolin anhydrous	423
347357	Lanolin anhydrous	423
347359	Lanolin anhydrous	423
348124	Hydroquinone	389
348126	Hydroquinone	389
348128	Hydroquinone	389
348129	Hydroquinone	389
348354	Inositol	396
348451	Iodine	397
348452	Iodine	397
348454	Iodine	397
348455	Iodine	397
348457	Iodine	397
348554	Iodoform	399
348557	Iodoform	399
348558	Iodoform	399
348702	Lactose	423
348703	Lactose	423
348707	Lactose	423
348708	Lactose	423
348754	Lecithin of soya	430
348901	Petroleum ether 80 - 120°C	518
348905	Petroleum ether 80 - 120°C	518
348912	Petroleum ether 100 - 140°C	518
348913	Petroleum ether 100 - 140°C	518
348914	Petroleum ether 100 - 140°C	518
348955	Lithium carbonate	432
348957	Lithium carbonate	432
349257	Magnesium carbonate basic	439
349279	Magnesium carbonate basic	439
349355	Magnesium chloride hexahydrate	440
349357	Magnesium chloride hexahydrate	440
349359	Magnesium chloride hexahydrate	440
349372	Magnesium chloride hexahydrate	440
349377	Magnesium chloride hexahydrate	440
349407	Magnesium glycerophosphate	440
349557	Magnesium nitrate hexahydrate	441
349653	Magnesium oxide heavy	442
349655	Magnesium oxide heavy	442
349656	Magnesium oxide heavy	442
349753	Magnesium peroxide	442
349757	Magnesium peroxide	442
349851	Magnesium sulfate heptahydrate	444
349852	Magnesium sulfate heptahydrate	444
349859	Magnesium sulfate heptahydrate	444
350032	Magnesium stearate	443
350035	Magnesium stearate	443
351502	Manganese (II) chloride tetrahydrate	448
351507	Manganese (II) chloride tetrahydrate	448
351508	Manganese (II) chloride tetrahydrate	448
352002	Manganese (II) sulfate monohydrate	449
352007	Manganese (II) sulfate monohydrate	449
352008	Manganese (II) sulfate monohydrate	449
352051	D-Mannitol	450
352052	D-Mannitol	450
352053	D-Mannitol	450
352103	L-Menthol	451
352106	L-Menthol	451
352654	Mercury (I) chloride	452
352657	Mercury (I) chloride	452
354007	Methyl 4-hydroxybenzoate	465
354008	Methyl 4-hydroxybenzoate	465
354152	Methyl salicylate	470
354155	Methyl salicylate	470
354251	Ethyl methyl ketone	329
354253	Ethyl methyl ketone	329
354254	Ethyl methyl ketone	329
354255	Ethyl methyl ketone	329
354501	Dichloromethane	284
354751	1-Naphthol	481

356251	Oil refined of almonds	501
356351	Castor oil	236
356352	Castor oil	236
356353	Castor oil	236
356601	Paraffin oil	511
356603	Paraffin oil	511
356607	Paraffin oil	511
356608	Paraffin oil	511
356661	n-Octane	500
356951	n-Pentane	513
356952	n-Pentane	513
356953	n-Pentane	513
356954	n-Pentane	513
357151	Petroleum	518
357155	Petroleum	518
358007	Lead (II) nitrate	428
358008	Lead (II) nitrate	428
358252	Lead (II) oxide	429
358257	Lead (II) oxide	429
358259	Lead (II) oxide	429
358752	Pyridine	581
358754	Pyridine	581
358903	Potassium acetate	537
358907	Potassium acetate	537
358908	Potassium acetate	537
359702	Potassium bromide	539
359707	Potassium bromide	539
359803	Potassium carbonate	539
359808	Potassium carbonate	539
359809	Potassium carbonate	539
359956	Potassium citrate tribasic monohydrate	544
359957	Potassium citrate tribasic monohydrate	544
359958	Potassium citrate tribasic monohydrate	544
359959	Potassium citrate tribasic monohydrate	544
360104	Potassium chloride	540
360106	Potassium chloride	540
360107	Potassium chloride	540
360109	Potassium chloride	540
360252	Potassium ferricyanide	547
360257	Potassium ferricyanide	547
360258	Potassium ferricyanide	547
360552	Potassium ferrocyanide trihydrate	548
360557	Potassium ferrocyanide trihydrate	548
360558	Potassium ferrocyanide trihydrate	548
361503	Potassium phosphate mono-basic	566
361507	Potassium phosphate mono-basic	566
361509	Potassium phosphate mono-basic	566
361751	Potassium phosphate dibasic anhydrous	565
361752	Potassium phosphate dibasic anhydrous	565
361757	Potassium phosphate dibasic anhydrous	565
362201	Potassium hydroxide, flakes	551
362235	Potassium hydroxide, pellets	552
362237	Potassium hydroxide, pellets	552
362239	Potassium hydroxide, pellets	552
362251	Potassium hydroxide, flakes	551
362257	Potassium hydroxide, flakes	551
362258	Potassium hydroxide, flakes	551
362402	Potassium iodide	559
362403	Potassium iodide	559
362405	Potassium iodide	559
362407	Potassium iodide	559
362409	Potassium iodide	559
362622	Potassium metabisulfite	560
362623	Potassium metabisulfite	560
362627	Potassium metabisulfite	560
362629	Potassium metabisulfite	560
363002	Potassium nitrate	561
363007	Potassium nitrate	561
363009	Potassium nitrate	561
363101	Potassium permanganate	563
363107	Potassium permanganate	563
363109	Potassium permanganate	563
363454	Potassium sodium tartrate tetrahydrate	568
363457	Potassium sodium tartrate tetrahydrate	568
363459	Potassium sodium tartrate tetrahydrate	568
363602	Potassium sulfate	569
363607	Potassium sulfate	569
363608	Potassium sulfate	569
363752	Potassium thiocyanate	570
363756	Potassium thiocyanate	570
363807	Potassium guaiacolsulfonate	549
363884	Potassium sorbate	568
363907	Potassium L-tartrate mono-basic	569
363953	Propyl p-hydroxybenzoate	579
363956	Propyl p-hydroxybenzoate	579
363972	Calcium propionate	230
363974	Calcium propionate	230
364007	Copper (II) acetate hydrate	262
364008	Copper (II) acetate hydrate	262
364011	Quartz granular	584
364502	Copper (II) chloride dihydrate	263
364507	Copper (II) chloride dihydrate	263
364508	Copper (II) chloride dihydrate	263
364611	Copper (I) iodide	263
364621	Copper (II) pyrophosphate	264
364752	Copper (II) sulfate pentahydrate	265
364757	Copper (II) sulfate pentahydrate	265
364759	Copper (II) sulfate pentahydrate	265
365002	Copper (II) sulfate anhydrous	265
365006	Copper (II) sulfate anhydrous	265
365007	Copper (II) sulfate anhydrous	265
365152	D(+)-Sucrose	671
365157	D(+)-Sucrose	671
365158	D(+)-Sucrose	671
365755	Saponin	594
365757	Saponin	594
365758	Saponin	594
366205	Sodium acetate trihydrate	611
366207	Sodium acetate trihydrate	611
366209	Sodium acetate trihydrate	611
366371	Sodium acetate anhydrous	610
366372	Sodium acetate anhydrous	610
366377	Sodium acetate anhydrous	610
366551	Sodium alginate	611
366552	Sodium alginate	611
366553	Sodium alginate	611
366681	Sodium L-ascorbate	612
366684	Sodium L-ascorbate	612
366754	Sodium benzoate	613
366757	Sodium benzoate	613
366759	Sodium benzoate	613
366902	Sodium bicarbonate	614
366904	Sodium bicarbonate	614
366908	Sodium bicarbonate	614
366909	Sodium bicarbonate	614
367201	Sodium tetraborate decahy-drate	655
367207	Sodium tetraborate decahy-drate	655
367209	Sodium tetraborate decahy-drate	655
367357	Sodium bromide	615
367359	Sodium bromide	615
367601	Sodium carbonate decahydrate	617
367604	Sodium carbonate decahydrate	617
367608	Sodium carbonate decahydrate	617
367609	Sodium carbonate decahydrate	617
367691	Sodium carbonate monohy-drate	617
367692	Sodium carbonate monohy-drate	617
367693	Sodium carbonate monohy-drate	617
367694	Sodium carbonate monohy-drate	617
367703	Sodium carbonate anhydrous	616
367704	Sodium carbonate anhydrous	616
367707	Sodium carbonate anhydrous	616
367951	Sodium citrate dibasic se-squihydrate	620
368007	Sodium citrate tribasic dihydrate	621
368009	Sodium citrate tribasic dihydrate	621
368051	Sodium citrate tribasic dihydrate	621
368052	Sodium citrate tribasic dihydrate	621
368054	Sodium citrate tribasic dihydrate	621
368057	Sodium citrate tribasic dihydrate	621
368058	Sodium citrate tribasic dihydrate	621
368107	Sodium citrate tribasic anhydrous	620
368253	Sodium chloride	619
368257	Sodium chloride	619
368259	Sodium chloride	619
368281	Sodium chloride	619
368352	Sodium hexametaphosphate	624
368357	Sodium hexametaphosphate	624
368451	Sodium fluoride	623
368457	Sodium fluoride	623
368458	Sodium fluoride	623
369132	Sodium phosphate monobasic dihydrate	648
369138	Sodium phosphate monobasic dihydrate	648
369139	Sodium phosphate monobasic dihydrate	648
369141	Sodium phosphate monobasic monohydrate	648
369142	Sodium phosphate monobasic monohydrate	648
369143	Sodium phosphate monobasic monohydrate	648
369152	Sodium phosphate dibasic dodecahydrate	647
369154	Sodium phosphate dibasic dodecahydrate	647
369158	Sodium phosphate dibasic dodecahydrate	647
369159	Sodium phosphate dibasic dodecahydrate	647
369185	Sodium phosphate dibasic dihydrate	646
369211	Sodium phosphate dibasic anhydrous	646
369212	Sodium phosphate dibasic anhydrous	646
369213	Sodium phosphate dibasic anhydrous	646
369252	Sodium phosphate dibasic	647
369257	Sodium phosphate dibasic	647
369258	Sodium phosphate dibasic	647
369301	Sodium phosphate tribasic dodecahydrate	649

369309	Sodium phosphate tribasic dodecahydrate	649
369447	Sodium glycerophosphate pentahydrate	624
369449	Sodium glycerophosphate pentahydrate	624
369582	Sodium gluconate	623
369667	Sodium glutamate acid	623
369701000	Sodium hydroxide solution 30%	629
369702	Sodium hydroxide solution 30%	629
369704	Sodium hydroxide solution 30%	629
369741	Sodium hydroxide, pearls	626
369742	Sodium hydroxide, pearls	626
369743	Sodium hydroxide, pearls	626
369744	Sodium hydroxide, pearls	626
369761	Sodium hydroxide solution 30%	629
369762	Sodium hydroxide solution 30%	629
369766	Sodium hydroxide solution 30%	629
369771	Sodium hydroxide, pellets	627
369772	Sodium hydroxide, pellets	627
369774	Sodium hydroxide, pellets	627
369777	Sodium hydroxide, pellets	627
369812	Sodium hydroxide 0.25 mol/l (N/4)	635
370011	Sodium hydrosulfite	625
370012	Sodium hydrosulfite	625
370014	Sodium hydrosulfite	625
370305	Sodium iodide	639
370307	Sodium iodide	639
370309	Sodium iodide	639
370321	Sodium hypochlorite solution in water	638
370322	Sodium hypochlorite solution in water	638
370323	Sodium hypochlorite solution in water	638
370751	Sodium metabisulfite	640
370752	Sodium metabisulfite	640
370753	Sodium metabisulfite	640
371802	Sodium nitrate	642
371804	Sodium nitrate	642
371809	Sodium nitrate	642
371901	Sodium nitrite	642
371902	Sodium nitrite	642
371903	Sodium nitrite	642
372109	Sodium nitrite	642
372201	Sodium oxalate	644
372203	Sodium oxalate	644
373603	Sodium salicylate	650
373607	Sodium salicylate	650
373608	Sodium salicylate	650
373902	Sodium silicate	650
373908	Sodium silicate	650
373909	Sodium silicate	650
375713	Sodium sulfate anhydrous	652
375716	Sodium sulfate anhydrous	652
376002	Sodium sulfite anhydrous	653
376003	Sodium sulfite anhydrous	653
376004	Sodium sulfite anhydrous	653
376006	Sodium sulfite anhydrous	653
376008	Sodium sulfite anhydrous	653
376009	Sodium sulfite anhydrous	653
377901	Sodium thiosulfate pentahydrate	656
377907	Sodium thiosulfate pentahydrate	656
377909	Sodium thiosulfate pentahydrate	656
378202	Sodium thiosulfate pentahydrate	656
378204	Sodium thiosulfate pentahydrate	656
378207	Sodium thiosulfate pentahydrate	656
378209	Sodium thiosulfate pentahydrate	656
378372	Sodium thiosulfate anhydrous	655
378377	Sodium thiosulfate anhydrous	655
378378	Sodium thiosulfate anhydrous	655
378802	Sulfur sublimed and washed	675
378807	Sulfur sublimed and washed	675
378809	Sulfur sublimed and washed	675
379014	Sorbitol	659
379021	Sorbitol (no crystallizable) solution 70%	659
379403	Tin (II) chloride dihydrate	703
379406	Tin (II) chloride dihydrate	703
379407	Tin (II) chloride dihydrate	703
379601	Tin (II) sulfate	704
379707	Strontium nitrate	669
382105	Talc	687
382107	Talc	687
382109	Talc	687
382981	Tetrahydrofuran	695
382982	Tetrahydrofuran	695
382983	Tetrahydrofuran	695
382985	Tetrahydrofuran	695
382986	Tetrahydrofuran	695
383002	1,2,3,4-Tetrahydronaphthalene	695
384201	Thymol	699
384202	Thymol	699
384205	Thymol	699
385403	Thiourea	698
385407	Thiourea	698
385409	Thiourea	698
385702	Titanium dioxide	706
385707	Titanium dioxide	706
385709	Titanium dioxide	706
385751	Titanium dioxide	706
385752	Titanium dioxide	706
385753	Titanium dioxide	706
386001	Toluene	709
386002	Toluene	709
386003	Toluene	709
386009	Toluene	709
386301	Triethanolamine	714
386303	Triethanolamine	714
386304	Triethanolamine	714
386305	Triethanolamine	714
386601	Triethylamine	714
386602	Triethylamine	714
386603	Triethylamine	714
387207	Trimethylcetylammonium p-toluenesulfonate	718
387503	Paraformaldehyde	511
387507	Paraformaldehyde	511
387801	Urea	724
387807	Urea	724
387809	Urea	724
388104	Vanillin	726
388107	Vanillin	726
388108	Vanillin	726
388407	Paraffin white soft	511
388409	Paraffin white soft	511
388607	Paraffin white soft	511
388609	Paraffin white soft	511
388701	Gentian violet	346
388703	Gentian violet	346
389511	Riboflavine	589
389901	Pyridoxine dipalmitate	581
391804	p-Aminobenzoic acid	145
391805	p-Aminobenzoic acid	145
392304	Nicotinamide	488
392307	Nicotinamide	488
392602	Xylene, mix of isomers	732
392603	Xylene, mix of isomers	732
392605	Xylene, mix of isomers	732
392608	Xylene, mix of isomers	732
392631	D(+)Xylose	734
392635	D(+)Xylose	734
393002	Zinc chloride anhydrous	740
393007	Zinc chloride anhydrous	740
393009	Zinc chloride anhydrous	740
393503	Zinc oxide	742
393507	Zinc oxide	742
393509	Zinc oxide	742
394001	Zinc sulfate heptahydrate	743
394007	Zinc sulfate heptahydrate	743
394009	Zinc sulfate heptahydrate	743
395451	Zinc stearate	742
395452	Zinc stearate	742
396105	Zirconyl nitrate	745
400155	Acetal	117
400204	Acetamide	117
400255	Acetanilide	117
400305	Acetylacetone	133
400307	Acetylacetone	133
400522	n-Acetylcysteine	133
400672	1-Acetyl-2-phenylhydrazine	134
400961	Acetone	128
400962	Acetone	128
400963	Acetone	128
400971	Acetone	128
400972	Acetone	128
400974	Acetone	128
400978	Acetone	128
400979	Acetone	128
400991	Acetone	126
400992000	Acetone	126
401032	Acetone	126
401034	Acetone	126
401041	Acetone	127
401042	Acetone	127
401051	Acetone	127
401052	Acetone	127
401054	Acetone	127
401055	Acetone	127
401058	Acetone	127
401183000	Acetonitrile	131
401185000	Acetonitrile	131
401212	Acetonitrile	131
401216	Acetonitrile	131
401241	Acetonitrile	131
401242	Acetonitrile	131
401361	Acetic acid glacial	118
401391	Acetic acid glacial	120
401392	Acetic acid glacial	120
401396	Acetic acid glacial	120
401397	Acetic acid glacial	120
401405	Acetic acid glacial	119
401406	Acetic acid glacial	119
401407	Acetic acid glacial	119
401411	Acetic acid glacial	118
401412	Acetic acid glacial	118
401413	Acetic acid glacial	118
401414	Acetic acid glacial	118
401421	Acetic acid glacial	120
401422	Acetic acid glacial	120
401424	Acetic acid glacial	120
401425	Acetic acid glacial	120
401431	Acetic acid glacial	118
401432	Acetic acid glacial	118
401453	Acetic acid glacial	119
401455	Acetic acid glacial	119
401462	Acetic acid glacial	119
401463	Acetic acid glacial	119
401531	Acetic acid 12%	123
401561	Acetic acid 0.1 mol/l (0.1N)	124
401785	Adipic acid	135
401787	Adipic acid	135
402032	1-Amino-2-naphthol-4-sulfonic acid	145
402132	Anisic acid	168
402133	Anisic acid	168
402381	Sodium arsenite 0.05 mol/l (0.1N)	613

402392	Thorin	698
402404	L(+)Ascorbic acid	172
402406	L(+)Ascorbic acid	172
402407	L(+)Ascorbic acid	172
402442	L(+)Aspartic acid	173
402532	Barbituric acid	178
402535	Barbituric acid	178
402621	Benzoic acid	187
402635	Benzoic acid	187
402636	Benzoic acid	187
402637	Benzoic acid	187
402762	Boric acid	193
402763	Boric acid	193
402764	Boric acid	193
402765	Boric acid	193
402766	Boric acid	193
402767	Boric acid	193
402922	Hydrobromic acid 48%	370
402925	Hydrobromic acid 48%	370
403236	n-Butyric acid	218
403272	Isobutyric acid	410
403308	Calconcarbonic acid	232
403421	n-Caprylic acid	234
403473	n-Caproic acid	233
403721	Citric acid monohydrate	255
403722	Citric acid monohydrate	255
403724	Citric acid monohydrate	255
403725	Citric acid monohydrate	255
403727	Citric acid monohydrate	255
403821	Chloranilic acid	243
403822	Chloranilic acid	243
403871	Hydrochloric acid 37%	371
403872	Hydrochloric acid 37%	371
403874	Hydrochloric acid 37%	371
403876	Hydrochloric acid 37%	371
403878	Hydrochloric acid 37%	371
403891	Hydrochloric acid 32-35%	372
403901	Hydrochloric acid 23%	374
403905	Hydrochloric acid 23%	374
403909	Hydrochloric acid 23%	374
403915	Hydrochloric acid 34-37%	372
403916	Hydrochloric acid 34-37%	372
403917	Hydrochloric acid 34-37%	372
403921	Hydrochloric acid 29 - 31 %	373
403941	Hydrochloric acid 37%	370
403942	Hydrochloric acid 37%	370
403971	Hydrochloric acid 37%	370
403977	Hydrochloric acid 37%	370
403981	Hydrochloric acid 32%	373
403982	Hydrochloric acid 32%	373
403984	Hydrochloric acid 32%	373
403986	Hydrochloric acid 32%	373
403988	Hydrochloric acid 32%	373
404033	Hydrochloric acid 8%	375
404036	Hydrochloric acid 8%	375
404061000	Hydrochloric acid 2 mol/l (2N)	378
404062000	Hydrochloric acid 2 mol/l (2N)	378
404067000	Hydrochloric acid 2 mol/l (2N)	378
404091000	Hydrochloric acid 1 mol/l (1N)	379
404092000	Hydrochloric acid 1 mol/l (1N)	379
404094000	Hydrochloric acid 1 mol/l (1N)	379
404097000	Hydrochloric acid 1 mol/l (1N)	379
404111	Hydrochloric acid 1 mol/l (1N)	379
404141000	Hydrochloric acid 0.5 mol/l (0.5N)	380
404142000	Hydrochloric acid 0.5 mol/l (0.5N)	380
404147000	Hydrochloric acid 0.5 mol/l (0.5N)	380
404161	Hydrochloric acid 0.5 mol/l (0.5N)	380
404191000	Hydrochloric acid 0.1 mol/l (0.1N)	381
404192000	Hydrochloric acid 0.1 mol/l (0.1N)	381
404195000	Hydrochloric acid 0.1 mol/l (0.1N)	381
404197000	Hydrochloric acid 0.1 mol/l (0.1N)	381
404211	Hydrochloric acid 0.1 mol/l (0.1N)	381
404251	Hydrochloric acid 0.01 mol/l (0.01N)	383
404267	Hydrochloric acid 0.01 mol/l (0.01N)	383
404308	Chloroacetic acid	244
404872	Chromotropic acid disodium salt	254
404923	alpha-trans-Crotonic acid	267
405101	Dichloroacetic acid	279
405103	Dichloroacetic acid	279
405144	Sodium diethyldithiocarbamate trihydrate	622
405192	Diethylenetriaminepentacetic acid	289
405351	Dodecylbenzenesulphonic acid sodium salt	305
405352	Dodecylbenzenesulphonic acid sodium salt	305
405421	Ethylenediaminetetraacetic acid disodium salt 0.1 mol/l (0.2N)	325
405431	Ethylenediaminetetraacetic acid disodium salt 0.01 mol/l (0.02N)	326
405442000	Ethylenediaminetetraacetic acid disodium salt 0.01 mol/l (0.02N)	326
405443000	Ethylenediaminetetraacetic acid disodium salt 0.01 mol/l (0.02N)	326
405451	Heptafluorobutyric acid	357
405462	Ethylenediaminetetraacetic acid	323
405463	Ethylenediaminetetraacetic acid	323
405465	Ethylenediaminetetraacetic acid	323
405482	Ethylenediaminetetraacetic acid tetrasodium salt tetrahydrate	327
405486	Ethylenediaminetetraacetic acid tetrasodium salt tetrahydrate	327
405491	Ethylenediaminetetraacetic acid disodium salt	324
405492	Ethylenediaminetetraacetic acid disodium salt	324
405494	Ethylenediaminetetraacetic acid disodium salt	324
405497	Ethylenediaminetetraacetic acid disodium salt	324
405501000	Ethylenediaminetetraacetic acid disodium salt 0.05 mol/l (0.1N)	325
405502000	Ethylenediaminetetraacetic acid disodium salt 0.05 mol/l (0.1N)	325
405511000	Ethylenediaminetetraacetic acid disodium salt 0.1 mol/l (0.2N)	325
405512000	Ethylenediaminetetraacetic acid disodium salt 0.1 mol/l (0.2N)	325
405513000	Ethylenediaminetetraacetic acid disodium salt 0.1 mol/l (0.2N)	325
405514000	Ethylenediaminetetraacetic acid disodium salt 0.1 mol/l (0.2N)	325
405521	Ethylene glycol bis(2-amino-ethyl ether)-N,N,N',N'-tetraacetic acid	328
405522	Ethylene glycol bis(2-amino-ethyl ether)-N,N,N',N'-tetraacetic acid	328
405531	Ethylenediaminetetraacetic acid dipotassium salt dihydrate	324
405541	Ethylenediaminetetraacetic acid potassium and magnesium salt dihydrate	326
405597	Phenylacetic acid	526
405598	Phenylacetic acid	526
405611	Hydrofluoric acid 47-51%	385
405621	1-Hexanesulphonic acid sodium salt	365
405622	1-Hexanesulphonic acid sodium salt	365
405631	1-Butanesulfonic acid sodium salt	212
405632	1-Butanesulfonic acid sodium salt	212
405653	Hydrofluoric acid 50%	384
405716	Hydrofluoric acid 47-51%	385
405722	Hydrofluoric acid 50%	385
405728	Hydrofluoric acid 50%	385
405737	Hydrofluoric acid 50%	384
405761	Hydrofluoric acid 39.5%	386
405765	Hydrofluoric acid 39.5%	386
405792	Formic acid 99%	341
405793	Formic acid 99%	341
405794	Formic acid 99%	341
405821	Formic acid 99%	340
405822	Formic acid 99%	340
405823	Formic acid 99%	340
405824	Formic acid 99%	340
405832	Formic acid 85%	341
405833	Formic acid 85%	341
405835	Formic acid 85%	341
405841	1-Pentanesulphonic acid sodium salt	514
405842	1-Pentanesulphonic acid sodium salt	514
405851	1-Heptanesulphonic acid sodium salt	359
405852	1-Heptanesulphonic acid sodium salt	359
405861	1-Octanesulphonic acid sodium salt	501
405862	1-Octanesulphonic acid sodium salt	501
405863	1-Octanesulphonic acid sodium salt	501
405871	1-Decanesulfonic acid sodium salt	273
405872	1-Decanesulfonic acid sodium salt	273
405881	1-Dodecanesulfonic acid sodium salt	304
405882	1-Dodecanesulfonic acid sodium salt	304
405891	1-Pentanesulphonic acid sodium salt monohydrate	514
405892	1-Pentanesulphonic acid sodium salt monohydrate	514
405901	1-Propanesulfonic acid sodium salt	577
405902	1-Propanesulfonic acid sodium salt	577
405913	Phosphomolybdic acid	530
405915	Phosphomolybdic acid	530

405921	1-Hexanesulphonic acid sodium salt monohydrate	366
405922	1-Hexanesulphonic acid sodium salt monohydrate	366
405931	1-Octanesulfonic acid sodium salt monohydrate	501
405932	1-Octanesulfonic acid sodium salt monohydrate	501
405941	Dodecyltrimethylammonium bromide	305
405942	Dodecyltrimethylammonium bromide	305
405961	Orthophosphoric acid 99%	503
405967	Orthophosphoric acid 99%	503
405971	Tetrabutylammonium bisulfate	691
405972	Tetrabutylammonium bisulfate	691
406002	Orthophosphoric acid 85%	503
406003	Orthophosphoric acid 85%	503
406005	Orthophosphoric acid 85%	503
406021	Orthophosphoric acid 85%	503
406022	Orthophosphoric acid 85%	503
406053	Phosphonic acid	530
406056	Phosphonic acid	530
406154	Phosphotungstic acid	532
406205	Phthalic acid	533
406284	Fumaric acid	343
406287	Fumaric acid	343
406335	Gallic acid monohydrate	345
406336	Gallic acid monohydrate	345
406434	Glycolic acid	351
406485	L(+)Glutamic acid	349
406831	Hydriodic acid 57%	369
406833	Hydriodic acid 57%	369
406961	Hypophosphorous acid 50%	390
406962	Hypophosphorous acid 50%	390
406964	Hypophosphorous acid 50%	390
407012	Hippuric acid	366
407261	Maleic acid	445
407263	Maleic acid	445
407266	Maleic acid	445
407314	DL-Malic acid	445
407316	DL-Malic acid	445
407363	Malonic acid	445
407365	Malonic acid	445
407431	L(+)Mandelic acid	446
407441	alpha-Methoxyphenylacetic acid	461
407465	Metaphosphoric acid	454
407467	Metaphosphoric acid	454
407481	Methanesulfonic acid	454
407483	Methanesulfonic acid	454
407914	Nicotinic acid	489
407951	Nitric acid 65%	494
407952	Nitric acid 65%	494
408021	Nitric acid 65%	494
408022	Nitric acid 65%	494
408025	Nitric acid 65%	494
408027	Nitric acid 65%	494
408051	Nitric acid 67-69%	493
408071	Nitric acid 69.5%	492
408072	Nitric acid 69.5%	492
408075	Nitric acid 69.5%	492
408076	Nitric acid 69.5%	492
408097	Nitric acid 69.5%	491
408098	Nitric acid 69.5%	491
408101	Nitric acid 65%	494
408102	Nitric acid 65%	494
408103	Nitric acid 65%	494
408115	Nitric acid 67-70%	492
408116	Nitric acid 67-70%	492
408117	Nitric acid 67-70%	492
408133	Nitric acid fuming 90%	491
408151	Nitric acid 69.5%	492
408152	Nitric acid 69.5%	492
408171000	Nitric acid 1 mol/l (1N)	496
408176000	Nitric acid 1 mol/l (1N)	496
408185000	Nitric acid 2 mol/l (2N)	496
408191	Nitric acid 18%	495
408206000	Nitric acid 0.1 mol/l (0.1N)	496
408231	Nitric acid 0.1 mol/l (0.1N)	496
408242	Nitrilotriacetic acid	497
408414	m-Nitrobenzoic acid	498
408687	Osmium (VIII) oxide	505
408731	Oxalic acid dihydrate	506
408733	Oxalic acid dihydrate	506
408736	Oxalic acid dihydrate	506
408737	Oxalic acid dihydrate	506
408826	Oxalic acid 0.5 mol/l (1N)	506
408856	Oxalic acid 0.05 mol/l (0.1N)	506
408871	Oxalic acid 0.05 mol/l (0.1N)	507
408901	Oxalic acid 0.005 mol/l (0.01N)	507
409062	1-Pentanesulphonic acid sodium salt	514
409064	1-Pentanesulphonic acid sodium salt	514
409111	Perchloric acid 65%	515
409113	Perchloric acid 65%	515
409121	Perchloric acid 65%	515
409131	Perchloric acid 0.1 mol/l (0.1N) in acetic acid	516
409136	Perchloric acid 0.1 mol/l (0.1N) in acetic acid	516
409182	Periodic acid	517
409184	Periodic acid	517
409185	Periodic acid	517
409193	Perchloric acid 65-71%	515
409302	Picric acid solution	533
409305	Picric acid solution	533
409435	Pyrogallol	582
409437	Pyrogallol	582
409471	Pyrrolidine dithiocarbamic acid ammonium salt	583
409551	Propionic acid	578
409553	Propionic acid	578
409702	Rosolic acid	590
409773	Salicylic acid	592
409777	Salicylic acid	592
409875	Sebacic acid	595
409964	Selenous acid	597
410051	Silicotungstic acid	601
410054	Silicotungstic acid	601
410104	Sulfamic acid	672
410105	Sulfamic acid	672
410106	Sulfamic acid	672
410154	Sulfanilic acid	673
410156	Sulfanilic acid	673
410261	Sulfuric acid 96%	676
410301	Sulfuric acid 96%	677
410302	Sulfuric acid 96%	677
410303	Sulfuric acid 96%	677
410306	Sulfuric acid 96%	677
410307	Sulfuric acid 96%	677
410351	Sulfuric acid 93-98%	678
410371	Sulfuric acid 96%	676
410374	Sulfuric acid 96%	676
410381	Sulfuric acid 96%	676
410382	Sulfuric acid 96%	676
410391	Sulfuric acid 90%	678
410394	Sulfuric acid 90%	678
410405	Sulfuric acid 93-98%	678
410406	Sulfuric acid 93-98%	678
410407	Sulfuric acid 93-98%	678
410421	Sulfuric acid 98%	675
410511000	Sulfuric acid 20%	680
410516	Sulfuric acid 20%	680
410547000	Sulfuric acid 1 mol/l (2N)	681
410548000	Sulfuric acid 1 mol/l (2N)	681
410571000	Sulfuric acid 0.5 mol/l (1N)	681
410572000	Sulfuric acid 0.5 mol/l (1N)	681
410575000	Sulfuric acid 0.5 mol/l (1N)	681
410577000	Sulfuric acid 0.5 mol/l (1N)	681
410591	Sulfuric acid 0.5 mol/l (1N)	681
410634	Sulfuric acid 0.33 mol/l (2N/3)	682
410662000	Sulfuric acid 0.25 mol/l (0.5N)	682
410663000	Sulfuric acid 0.25 mol/l (0.5N)	682
410667000	Sulfuric acid 0.25 mol/l (0.5N)	682
410681	Sulfuric acid 0.25 mol/l (0.5N)	682
410711000	Sulfuric acid 0.05 mol/l (0.1N)	683
410712000	Sulfuric acid 0.05 mol/l (0.1N)	683
410713000	Sulfuric acid 0.05 mol/l (0.1N)	683
410714000	Sulfuric acid 0.05 mol/l (0.1N)	683
410717000	Sulfuric acid 0.05 mol/l (0.1N)	683
410731	Sulfuric acid 0.05 mol/l (0.1N)	684
410791	Sulfuric acid 0.005 mol/l (0.01N)	685
410894	Sulfosalicylic acid	674
410896	Sulfosalicylic acid	674
411023	Succinic acid	670
411025	Succinic acid	670
411027	Succinic acid	670
411074	Tannic acid	687
411076	Tannic acid	687
411077	Tannic acid	687
411121	L(+) Tartaric Acid	688
411125	L(+) Tartaric Acid	688
411127	L(+) Tartaric Acid	688
411271	2-Thiobarbituric acid	697
411272	2-Thiobarbituric acid	697
411385	Thioglycolic acid 80%	698
411432	p-Toluenesulfonic acid	710
411436	p-Toluenesulfonic acid	710
411504	p-Toluenesulfonic acid sodium salt	710
411524	Trichloroacetic acid	712
411525	Trichloroacetic acid	712
411527	Trichloroacetic acid	712
411541	Trifluoroacetic acid	715
411542	Trifluoroacetic acid	715
411543	Trifluoroacetic acid	715
411554000	Trichloroacetic acid solution 20%	713
411561	Trifluoroacetic acid	715
411564	Trifluoroacetic acid	715
411621	Tungstic acid	723
411628	Tungstic acid	723
411775	n-Valeric acid	725
411981	Water chlorine	730
412011	Water	728
412041	Acetonitrile	129
412042	Acetonitrile	129
412051	Hydrogen peroxide solution 30-32%	387
412071	Hydrogen peroxide solution 30%	388
412072	Hydrogen peroxide solution 30%	388
412074	Hydrogen peroxide solution 30%	388
412076	Hydrogen peroxide solution 30%	388
412077	Hydrogen peroxide solution 30%	388
412081	Hydrogen peroxide solution 30%	388
412091	Water	728
412092	Water	728
412102	Hydrogen peroxide solution 30%	388
412111	Water	728
412112	Water	728
412121	Water + 0.1% v/v formic acid	730
412122	Water + 0.1% v/v formic acid	730
412141	Water	728
412142	Water	728
412151	Water	729

412161	Hydrogen peroxide solution 30%	387
412162	Hydrogen peroxide solution 30%	387
412163	Hydrogen peroxide solution 30%	387
412185	Water	729
412194	Acquovitrex-Erba	170
412321	Acetonitrile + 0.1% v/v trifluoroacetic acid	132
412322	Acetonitrile + 0.1% v/v trifluoroacetic acid	132
412331	Acetonitrile + 0.1% v/v formic acid	132
412332	Acetonitrile + 0.1% v/v formic acid	132
412341	Acetonitrile	129
412342	Acetonitrile	129
412371000	Acetonitrile	130
412372000	Acetonitrile	130
412374	Acetonitrile	130
412381	Methanol	455
412383	Methanol	455
412391000	Acetonitrile	130
412392000	Acetonitrile	130
412393	Acetonitrile	130
412395	Acetonitrile	130
412407	Acetonitrile	130
412409	Acetonitrile	130
412411000	Acetonitrile	130
412412000	Acetonitrile	130
412421000	Propan-2-ol	574
412422000	Propan-2-ol	574
412431000	Cyclohexane	269
412432000	Cyclohexane	269
412441000	Isooctane	411
412442000	Isooctane	411
412451000	Tetrahydrofuran	693
412452000	Tetrahydrofuran	693
412453000	Tetrahydrofuran	693
412471	Tetrahydrofuran	694
412472	Tetrahydrofuran	694
412501	Acetone	126
412502	Acetone	126
412511000	Butanol-1	212
412512000	Butanol-1	212
412521	Ethanol absolute anhydrous	311
4125212	Ethanol absolute anhydrous	311
412522	Ethanol absolute anhydrous	311
4125222	Ethanol absolute anhydrous	311
412531	Methanol	456
412532	Methanol	456
412533	Methanol	456
412535	Methanol	456
412541000	Propan-1-ol	572
412542000	Propan-1-ol	572
412571	Chloroform	245
412572	Chloroform	245
412591000	n-Heptane 99%	357
412592000	n-Heptane 99%	357
412601000	n-Hexane	363
412602000	n-Hexane	363
412611000	Ethyl acetate	320
412612000	Ethyl acetate	320
412621000	Dichloromethane	281
412622000	Dichloromethane	281
412631	Hexane mixture of isomers	364
412632	Hexane mixture of isomers	364
412641000	Toluene	707
412642000	Toluene	707
412652	Chloroform	246
412653	Chloroform	246
412661	Dichloromethane	282
412662	Dichloromethane	282
412671	Diethyl ether	289
412672	Diethyl ether	289
412681	2-Methyltetrahydrofuran	470
412682	2-Methyltetrahydrofuran	470
412691	n-Hexane 99%	361
412692	n-Hexane 99%	361
412701	Ethanol absolute anhydrous	311
4127012	Ethanol absolute anhydrous	311
412702	Ethanol absolute anhydrous	311
4127022	Ethanol absolute anhydrous	311
412703	Ethanol absolute anhydrous	311
4127032	Ethanol absolute anhydrous	311
412711000	Propan-2-ol	573
412712000	Propan-2-ol	573
412721	Methanol	455
412722	Methanol	455
412724	Methanol	455
412725	Methanol	455
412821	Propan-2-ol	574
413603	ß-Alanine	137
413654	Albumin from eggs, dried	135
413656	Albumin from eggs, dried	135
413671	Albumin from eggs powder	135
413672	Albumin from eggs powder	135
413783	n-Amyl alcohol	166
413801	Isoamyl alcohol	408
413832	Isoamyl alcohol	408
413833	Isoamyl alcohol	408
413836	Isoamyl alcohol	408
413892	Isoamyl alcohol	408
413941	tert-Amyl alcohol	166
413944	tert-Amyl alcohol	166
413945	tert-Amyl alcohol	166
414022	Benzyl alcohol	188
414024	Benzyl alcohol	188
414052	Benzyl alcohol	188
414131	Butanol-1	213
414132	Butanol-1	213
414133	Butanol-1	213
414211	Isobutanol	409
414213	Isobutanol	409
414214	Isobutanol	409
414261	Butanol-2	213
414264	Butanol-2	213
414266	Butanol-2	213
414341	tert-Butanol	214
414342	tert-Butanol	214
414343	tert-Butanol	214
414346	tert-Butanol	214
414427	Cetyl alcohol	241
414541	Ethanol 96°	314
4145412	Ethanol 96°	314
414542	Ethanol 96°	314
4145422	Ethanol 96°	314
414583	Ethanol absolute anhydrous	312
4145832	Ethanol absolute anhydrous	312
414587	Ethanol absolute anhydrous	312
4145872	Ethanol absolute anhydrous	312
414591	Ethanol with 5% Isopropanol (w/w)	319
414601	Ethanol absolute anhydrous	312
4146012	Ethanol absolute anhydrous	312
414602	Ethanol absolute anhydrous	312
414603	Ethanol absolute anhydrous	312
414604	Ethanol absolute anhydrous	312
414605	Ethanol absolute anhydrous	312
4146052	Ethanol absolute anhydrous	312
414606	Ethanol absolute anhydrous	312
414607	Ethanol absolute anhydrous	312
4146072	Ethanol absolute anhydrous	312
414608	Ethanol absolute anhydrous	312
4146082	Ethanol absolute anhydrous	312
414609	Ethanol absolute anhydrous	312
414631	Ethanol 96°	314
4146312	Ethanol 96°	314
414632	Ethanol 96°	314
4146322	Ethanol 96°	314
414633	Ethanol 96°	314
414634	Ethanol 96°	314
4146342	Ethanol 96°	314
414635	Ethanol 96°	314
414637	Ethanol 96°	314
4146372	Ethanol 96°	314
414638	Ethanol 96°	314
414639	Ethanol 96°	314
414667	Ethanol 96°	314
4146672	Ethanol 96°	314
414677	Ethanol absolute anhydrous	311
4146772	Ethanol absolute anhydrous	311
414692	Ethanol absolute anhydrous	312
414813	Methanol	458
414814	Methanol	458
414815	Methanol	458
414816	Methanol	458
414817	Methanol	458
414818	Methanol	458
414819	Methanol	458
414821	Methanol	457
414822	Methanol	457
414831	Methanol	455
414832	Methanol	455
414854	Methanol	458
414855	Methanol	458
414861	Methanol + 0.1% v/v formic acid	459
414862	Methanol + 0.1% v/v formic acid	459
414871	Methanol + 0.1% v/v trifluoroacetic acid	459
414872	Methanol + 0.1% v/v trifluoroacetic acid	459
414881	Methanol	457
414883	Methanol	457
414902	Methanol	456
414903	Methanol	456
414914	Methanol	457
414917	Methanol	457
414930	Methanol	456
414932	Methanol	456
414941	Methanol	455
414942	Methanol	455
414981	Methanol	457
415002	Octanol-1	500
415003	Octanol-1	500
415004	Octanol-1	500
415102	Propan-1-ol	573
415104	Propan-1-ol	573
415106	Propan-1-ol	573
415108	Propan-1-ol	573
415112	Propan-2-ol	574
415152	Propan-2-ol	576
415153	Propan-2-ol	576
415154	Propan-2-ol	576
415156	Propan-2-ol	576
415157	Propan-2-ol	576
415158	Propan-2-ol	576
415161	Propan-2-ol	575
415162	Propan-2-ol	575
415173	Propan-2-ol	576
415183	Propan-2-ol	573
415184	Propan-2-ol	573
415213	Propan-2-ol	574
415231	Propan-2-ol	575
415233	Propan-2-ol	575
415235	Propan-2-ol	575
415236	Propan-2-ol	575
415237	Propan-2-ol	575
415238	Propan-2-ol	575
415271	2.2.2-Trichlorethanol	713
415281	Propan-2-ol	574
415312	Anisaldehyde	167
415362	Benzaldehyde	185

415631	Formaldehyde 4% w/v buffered at pH 6.9	339
415633	Formaldehyde 4% w/v buffered at pH 6.9	339
415634	Formaldehyde 4% w/v buffered at pH 6.9	339
415636	Formaldehyde 4% w/v buffered at pH 6.9	339
415661	Formaldehyde 37% w/v	337
415662	Formaldehyde 37% w/v	337
415666	Formaldehyde 37% w/v	337
415667	Formaldehyde 37% w/v	337
415669	Formaldehyde 37% w/v	337
415672	Formaldehyde 5% w/v buffered at pH 6.9	338
415674	Formaldehyde 5% w/v buffered at pH 6.9	338
415682	Formaldehyde 37% w/v neutralized	336
415683	Formaldehyde 37% w/v neutralized	336
415684	Formaldehyde 37% w/v neutralized	336
415685	Formaldehyde 37% w/v neutralized	336
415686	Formaldehyde 37% w/v neutralized	336
415691	Formaldehyde 4% w/v buffered at pH 6.9	339
415692	Formaldehyde 4% w/v buffered at pH 6.9	339
415693	Formaldehyde 4% w/v buffered at pH 6.9	339
415694	Formaldehyde 4% w/v buffered at pH 6.9	339
415695	Formaldehyde 4% w/v buffered at pH 6.9	339
415696	Formaldehyde 4% w/v buffered at pH 6.9	339
415697	Formaldehyde 4% w/v buffered at pH 6.9	339
415721	Glutardialdehyde solution 50%	349
415892	Alizarin	136
416002	Alizarin red	136
416281	Allylthiourea	138
416283	Allylthiourea	138
416531	Alumina white	138
416581	Aluminum standard solution	139
416815	Aluminum, powder	139
416817	Aluminum, powder	139
416892	Aluminum ammonium sulfate dodecahydrate	139
416893	Aluminum ammonium sulfate dodecahydrate	139
416895	Aluminum ammonium sulfate dodecahydrate	139
416897	Aluminum ammonium sulfate dodecahydrate	139
416942	Aluminum chloride hexahydrate	140
416943	Aluminum chloride hexahydrate	140
416945	Aluminum chloride hexahydrate	140
416947	Aluminum chloride hexahydrate	140
416949	Aluminum chloride hexahydrate	140
416996	Aluminum chloride anhydrous	140
417046	Aluminum hydroxide	141
417047	Aluminum hydroxide	141
417095	Aluminum nitrate nonahydrate	141
417096	Aluminum nitrate nonahydrate	141
417097	Aluminum nitrate nonahydrate	141
417143	Aluminum oxide	142
417144	Aluminum oxide	142
417145	Aluminum oxide	142
417146	Aluminum oxide	142
417147	Aluminum oxide	142
417182	Aluminum oxide (acid)	142
417185	Aluminum oxide (acid)	142
417214	Aluminum oxide (basic)	142
417217	Aluminum oxide (basic)	142
417241	Aluminum oxide (neutral)	143
417245	Aluminum oxide (neutral)	143
417248	Aluminum oxide (neutral)	143
417295	Aluminum potassium sulfate dodecahydrate	143
417296	Aluminum potassium sulfate dodecahydrate	143
417297	Aluminum potassium sulfate dodecahydrate	143
417424	Aluminum sulfate	144
417425	Aluminum sulfate	144
417427	Aluminum sulfate	144
417585	Starch soluble	666
417587	Starch soluble	666
417781	Isoamyl acetate	408
417782	Isoamyl acetate	408
418253	2-Methyl-2-butene	463
418381	4-Aminophenazon	146
418564	m-Aminophenol	146
418594	p-Aminophenol	146
418771	Ammonium acetate	152
418772	Ammonium acetate	152
418775	Ammonium acetate	152
418776	Ammonium acetate	152
418777	Ammonium acetate	152
418781	Ammonium acetate	152
418925	Ammonium bicarbonate	153
418926	Ammonium bicarbonate	153
418927	Ammonium bicarbonate	153
418929	Ammonium bicarbonate	153
419127	Ammonium tetraborate trihydrate	164
419174	Ammonium bromide	153
419175	Ammonium bromide	153
419176	Ammonium bromide	153
419177	Ammonium bromide	153
419201	Ammonium carbamate	154
419202	Ammonium carbamate	154
419204	Ammonium carbamate	154
419232	Ammonium carbonate	154
419235	Ammonium carbonate	154
419236	Ammonium carbonate	154
419237	Ammonium carbonate	154
419239	Ammonium carbonate	154
419312	Ammonium citrate dibasic	157
419313	Ammonium citrate dibasic	157
419315	Ammonium citrate dibasic	157
419316	Ammonium citrate dibasic	157
419317	Ammonium citrate dibasic	157
419412	Ammonium chloride	155
419415	Ammonium chloride	155
419416	Ammonium chloride	155
419417	Ammonium chloride	155
419419	Ammonium chloride	155
419634	Ammonium fluoride	157
419635	Ammonium fluoride	157
419637	Ammonium fluoride	157
419638	Ammonium fluoride	157
419733	Ammonium formate	158
419734	Ammonium formate	158
419735	Ammonium formate	158
419736	Ammonium formate	158
419737	Ammonium formate	158
419741	Ammonium formate	158
419785	Ammonium phosphate monobasic	163
419786	Ammonium phosphate monobasic	163
419787	Ammonium phosphate monobasic	163
419831	Ammonium phosphate dibasic	162
419832	Ammonium phosphate dibasic	162
419834	Ammonium phosphate dibasic	162
419835	Ammonium phosphate dibasic	162
419836	Ammonium phosphate dibasic	162
419837	Ammonium phosphate dibasic	162
419941	Ammonia solution 30%	147
419943	Ammonia solution 30%	147
419945	Ammonia solution 30%	147
419946	Ammonia solution 30%	147
419948	Ammonia solution 30%	147
419981	Ammonia solution 20 - 22 %	150
419983	Ammonia solution 20 - 22 %	150
419984	Ammonia solution 20 - 22 %	150
419993	Ammonia solution 25%	149
420051	Ammonia solution 25%	149
420052	Ammonia solution 25%	149
420071	Ammonia solution 30%	147
420073	Ammonia solution 30%	147
420075	Ammonia solution 30%	147
420077	Ammonia solution 30%	147
420084	Ammonia solution 25%	148
420085	Ammonia solution 25%	148
420133	Ammonium iodide	159
420135	Ammonium iodide	159
420136	Ammonium iodide	159
420161	Ammonia solution 20 - 22 %	149
420175	Ammonia solution 20 - 22 %	150
420234	Ammonium molybdate tetrahydrate	160
420236	Ammonium molybdate tetrahydrate	160
420238	Ammonium molybdate tetrahydrate	160
420391	Ammonium molybdate tetrahydrate	159
420422	Ammonium nitrate	161
420424	Ammonium nitrate	161
420425	Ammonium nitrate	161
420426	Ammonium nitrate	161
420427	Ammonium nitrate	161
420429	Ammonium nitrate	161
420473	Ammonium oxalate monohydrate	161
420475	Ammonium oxalate monohydrate	161
420476	Ammonium oxalate monohydrate	161
420477	Ammonium oxalate monohydrate	161
420478	Ammonium oxalate monohydrate	161
420623	Ammonium persulfate	162
420625	Ammonium persulfate	162
420626	Ammonium persulfate	162
420627	Ammonium persulfate	162
420629	Ammonium persulfate	162
420672	Reinecke salt	587
420724	Ammonium sulfamate	163
420725	Ammonium sulfamate	163
420771	Ammonium sulfate	164
420772	Ammonium sulfate	164
420774	Ammonium sulfate	164
420775	Ammonium sulfate	164
420776	Ammonium sulfate	164
420777	Ammonium sulfate	164
420885	Ammonium thiocyanate	165
420886	Ammonium thiocyanate	165
420887	Ammonium thiocyanate	165
420977	Ammonium thiocyanate 0.1 mol/l (0.1N)	165
421001	Ammonium thiocyanate 0.1 mol/l (0.1N)	165
421061	Ammonium thiocyanate 0.01 mol/l (0.01N)	166
421206	Ammonium L(+)tartrate	164
421491	Acetic anhydride	125

421493	Acetic anhydride	125
421496	Acetic anhydride	125
421735	Chromium (VI) oxide	253
421737	Chromium (VI) oxide	253
421802	Phosphorus pentoxide	531
421808	Phosphorus pentoxide	531
421904	Iodopentoxide	399
421955	Maleic anhydride	445
422004	Molybdenum (VI) oxide	476
422005	Molybdenum (VI) oxide	476
422104	Silicon dioxide	601
422106	Silicon dioxide	601
422204	Succinic anhydride	670
422225	Trifluoroacetic anhydride	716
422251	Magnesium perchlorate	442
422252	Magnesium perchlorate	442
422254	Magnesium perchlorate	442
422376	Aniline hydrochloride	167
422731	Antimony standard solution	169
422782	Antimony, powder	168
422786	Antimony, powder	168
422834	Antimony trichloride	170
422835	Antimony trichloride	170
423035	Antimony potassium tartrate	169
423036	Antimony potassium tartrate	169
423037	Antimony potassium tartrate	169
423281	Anthrone	168
423282	Anthrone	168
423341	Orange II	502
423432	Orange G	502
423461	Acridine orange	134
423501	Methyl orange	467
423502	Methyl orange	467
423503	Methyl orange	467
423504	Methyl orange	467
423505	Methyl orange	467
423597	Xylenol orange	733
423598	Xylenol orange	733
423599	Xylenol orange	733
423611	Silver standard solution	602
423722	Silver, sheet	602
423752	Silver, sheet	602
423782	Silver, sheet	602
423791	Silver, wool	602
423913	Silver diethyldithiocarbamate	603
423952	Silver nitrate	604
423954	Silver nitrate	604
423955	Silver nitrate	604
423957	Silver nitrate	604
424035000	Silver nitrate 1 mol/l (1N)	605
424036000	Silver nitrate 1 mol/l (1N)	605
424051000	Silver nitrate 0.5 mol/l (0.5N)	605
424061000	Silver nitrate 0.1 mol/l (0.1N)	605
424062000	Silver nitrate 0.1 mol/l (0.1N)	605
424063000	Silver nitrate 0.1 mol/l (0.1N)	605
424067000	Silver nitrate 0.1 mol/l (0.1N)	605
424081	Silver nitrate 0.1 mol/l (0.1N)	605
424101000	Silver nitrate 0.05 mol/l (0.05N)	606
424111	Sulfuric acid 0.0025 mol/l (0.005N)	685
424161	Silver nitrate 0.01 mol/l (N/100)	606
424181	Silver oxide	607
424182	Silver oxide	607
424191	Silver sulfate solution 0.7% in sulfuric acid	608
424192	Silver sulfate solution 0.7% in sulfuric acid	608
424201	Silver sulfate	607
424203	Silver sulfate	607
424268	L(+)Arginine monohydrochloride	171
424271	L(+)Arginine	170
424281	Arsenazo III	171
424282	Arsenazo III	171
424494	Sodium hydroxide on silica	627
424497	Sodium hydroxide on silica	627
424544	L(+)Asparagine	172
424547	L(+)Asparagine	172
424691	Azomethine H	176
424692	Azomethine H	176
424701	Azobenzene	176
424702	Azobenzene	176
424721	Azure II	176
424731	Azure II eosin	177
424861	Barium standard solution	179
424895	Barium acetate	179
424896	Barium acetate	179
424897	Barium acetate	179
424943	Barium carbonate	179
424945	Barium carbonate	179
425022	Barium chloride dihydrate	180
425025	Barium chloride dihydrate	180
425026	Barium chloride dihydrate	180
425027	Barium chloride dihydrate	180
425029	Barium chloride dihydrate	180
425292	Barium hydroxide octahydrate	181
425295	Barium hydroxide octahydrate	181
425296	Barium hydroxide octahydrate	181
425297	Barium hydroxide octahydrate	181
425341	Barium nitrate	182
425342	Barium nitrate	182
425347	Barium nitrate	182
425411	Barium perchlorate trihydrate	183
425497	Barium sulfate	184
425601	Bathophenanthroline sulfonate sodium salt	184
425602	Bathophenanthroline sulfonate sodium salt	184
426113	Benzene	185
426231	Benzenesulfonyl chloride	186
426403	Benzhydrol	186
426453	Benzylamine	188
426761	Benzyl benzoate	189
426763	Benzyl benzoate	189
426962	S-Benzylisothiourea hydrochloride	189
427001	Petroleum ether 60 - 80°C	519
427003	Petroleum ether 60 - 80°C	519
427007	Petroleum ether 60 - 80°C	519
427031	Petroleum ether 80 - 100°C	519
427036	Petroleum ether 80 - 100°C	519
427345	Dibenzoyl peroxide	278
428071	Bismuth standard solution	191
428103	Bismuth(III) carbonate basic	192
428105	Bismuth(III) carbonate basic	192
428234	Bismuth(III) nitrate pentahydrate	192
428236	Bismuth(III) nitrate pentahydrate	192
428284	Bismuth(III) nitrate basic	192
428286	Bismuth(III) nitrate basic	192
428294	Bismuth(III) nitrate basic	192
428432	Biuret 97%	193
428532	Alkali blue 6B	137
428551	Alcian Blue 8GS 1%	135
428561	Alcian blue 8GX	136
428582	Aniline blue soluble in water	167
428642	Coomassie brilliant blue R 250	259
428653	Bromophenol blue	201
428655	Bromophenol blue	201
428658	Bromophenol blue	201
428659	Bromophenol blue	201
428691	Bromophenol blue solution 0.02%	201
428702	Bromothymol blue	202
428703	Bromothymol blue	202
428708	Bromothymol blue	202
428731	Bromothymol blue 0.02%	202
428811	Brillant cresyl blue	196
428812	Brillant cresyl blue	196
428901	Lactophenol blue solution	422
428932	Methyl blue	463
428984	Methylene blue	464
428991	Carbolated Methylene Blue hydroalcoholic solution	234
429021	Methylthymol blue sodium salt	471
429022	Methylthymol blue sodium salt	471
429187	Tetrazolium blue	696
429222	Thymol blue	700
429223	Thymol blue	700
429228	Thymol blue	700
429282	Toluidine blue	711
429291	Carbolated Toluidine Blue hydroalcoholic solution	234
429381	Victoria blue	727
429382	Victoria blue	727
429641	Boron standard solution	196
429751	Fixative Bouin liquid	333
429981	Methylene blue	464
429982	Methylene blue	464
430652	alpha-Bromonaphthalene	200
431252	Bismarck brown R	190
431302	1,3-Butanediol	212
431601000	n-Butyl acetate	215
431602000	n-Butyl acetate	215
431604	n-Butyl acetate	215
431721	Isobutyl acetate	409
431811	n-Butyl chloride	216
431817	n-Butyl chloride	216
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432803	Soda lime	609
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455802	Indole	395
455853	Inositol	396
455901	Inulin	396
455902	Inulin	396
455903	Inulin	396
455954	Iodine resublimed	397
455955	Iodine resublimed	397
455957	Iodine resublimed	397
455959	Iodine resublimed	397
456036000	Iodine 0.05 mol/l (0.1N)	398
456037000	Iodine 0.05 mol/l (0.1N)	398
456051	Iodine 0.05 mol/l (0.1N)	398
456121	Iodine 0.005 mol/l (0.01N)	398
456135000	Iodine 0.5 mol/l (1N)	397
456137000	Iodine 0.5 mol/l (1N)	397
456641	Isooctane	412
456732	Isooctane	412
456734	Isooctane	412
456753	Isooctane	411
456754	Isooctane	411
456771	Isophorone	413
456791	Isooctane	411
456792	Isooctane	411
456851	Histamine dihydrochloride	366
456852	Histamine dihydrochloride	366
456951	L-Histidine hydrochloride monohydrate	367
456952	L-Histidine hydrochloride monohydrate	367
457107	Yttrium (III) oxide	736
457502	Lanthanum nitrate hexahydrate	424
457506	Lanthanum nitrate hexahydrate	424
457511	Lanthanum oxide	424
457521	Glass wool	348
457531	Amman's lactophenol solution	146
457551	Lactose	422
457552	Lactose	422
457553	Lactose	422
457557	Lactose	422
457625	Devarda's alloy	276
457627	Devarda's alloy	276
457675	Raney's alloy	585
457928	L(+)-Leucine	430
457957	L(+)Isoleucine	411
458001	Petroleum ether 75 - 120°C	519
458003	Petroleum ether 75 - 120°C	519
458121	L(+)Lysine monohydrochloride	436
458122	L(+)Lysine monohydrochloride	436
458124	L(+)Lysine monohydrochloride	436
458163	Lithium tetraborate anhydrous	434
458164	Lithium tetraborate anhydrous	434
458204	Lithium carbonate	432
458207	Lithium carbonate	432
458211	Lithium standard solution	431
458254	Lithium chloride	432
458256	Lithium chloride	432
458257	Lithium chloride	432
458271	Lithium chloride	432
458272	Lithium chloride	432
458273	Lithium chloride	432
458275	Lithium chloride	432
458281	Lithium hydroxide anhydrous	433
458282	Lithium hydroxide anhydrous	433
458292	Lithium hydroxide monohydrate	433
458303	Lithium hydride	433
458355	Lithium nitrate	433

458356	Lithium nitrate	433
458404	Lithium sulfate monohydrate	434
458405	Lithium sulfate monohydrate	434
458741	Lugol concentrated solution	435
458751	Lugol solution for Gram-Hucker kit	435
458762	Lugol's Reagent Iodine-Iodide Solution	435
458763	Lugol's Reagent Iodine-Iodide Solution	435
458772	Luminol	436
458891	Magnesium standard solution	437
459044	Magnesium, ribbon	438
459066	Magnesium, powder	438
459085	Magnesium, turnings	438
459131	Magnesium acetate tetrahydrate	438
459135	Magnesium acetate tetrahydrate	438
459137	Magnesium acetate tetrahydrate	438
459285	Magnesium carbonate basic	439
459287	Magnesium carbonate basic	439
459331	Magnesium chloride hexahydrate	439
459332	Magnesium chloride hexahydrate	439
459334	Magnesium chloride hexahydrate	439
459336	Magnesium chloride hexahydrate	439
459337	Magnesium chloride hexahydrate	439
459437	Magnesium hydrogen phosphate trihydrate	440
459535	Magnesium nitrate hexahydrate	441
459536	Magnesium nitrate hexahydrate	441
459537	Magnesium nitrate hexahydrate	441
459584	Magnesium oxide	441
459586	Magnesium oxide	441
459587	Magnesium oxide	441
459617	Magnesium oxide	441
459662	Magnesium sulfate heptahydrate	443
459665	Magnesium sulfate heptahydrate	443
459666	Magnesium sulfate heptahydrate	443
459667	Magnesium sulfate heptahydrate	443
459669	Magnesium sulfate heptahydrate	443
459863	Maltose monohydrate	446
459865	Maltose monohydrate	446
459911	Manganese standard solution	447
459965	Manganese electrolytic	447
460001	Manganese (II) acetate tetrahydrate	448
460005	Manganese (II) acetate tetrahydrate	448
460007	Manganese (II) acetate tetrahydrate	448
460052	Manganese (IV) oxide	449
460055	Manganese (IV) oxide	449
460056	Manganese (IV) oxide	449
460103	Manganese (II) carbonate	448
460107	Manganese (II) carbonate	448
460156	Manganese (II) chloride tetrahydrate	448
460158	Manganese (II) chloride tetrahydrate	448
460159	Manganese (II) chloride tetrahydrate	448
460305	Manganese (II) sulfate monohydrate	449
460307	Manganese (II) sulfate monohydrate	449
460352	D-Mannitol	449
460353	D-Mannitol	449
460355	D-Mannitol	449
460357	D-Mannitol	449
460502	Mayer's reagent	450
460511	Hematoxyline solution according to Mayer	356
460512	Hematoxyline solution according to Mayer	356
460513	Hematoxyline solution according to Mayer	356
460515	Hematoxyline solution according to Mayer	356
460581	May Grünwald reagent	450
460584	May Grünwald reagent	450
460586	May Grünwald reagent	450
460691	2-Mercaptoethanol	451
460741	Mercury standard solution	452
461003	Mercury (II) chloride	452
461105	Mercury (II) iodide	453
461325	Mercury (II) oxide red	453
461405	Mercury (II) sulfate	453
461805	4-Methylaminophenol sulfate	462
461945	Methyl isobutyl ketone	466
462017	Methyl acetate	462
462207	Methyl benzoate	462
462238	3-Methyl-2-benzothiazolinone hydrazone hydrochloride	463
462601	Methyl iodide	465
462604	Methyl iodide	465
462701	Ethyl methyl ketone	329
462702	Ethyl methyl ketone	329
462703	Ethyl methyl ketone	329
462704	Ethyl methyl ketone	329
462872	n-Methyl-2-pyrrolidone	468
462873	n-Methyl-2-pyrrolidone	468
462874	n-Methyl-2-pyrrolidone	468
462875	n-Methyl-2-pyrrolidone	468
463001	Dichloromethane	284
463002	Dichloromethane	284
463003	Dichloromethane	284
463008	Dichloromethane	284
463025	Dichloromethane	283
463126	DL-Methionine	461
463161	Dichloromethane	284
463162	Dichloromethane	284
463251	Mix Diethyl ether/Ethanol 70/30 (w/w)	473
463255	Mix Diethyl ether/Ethanol 70/30 (w/w)	473
463281	Dichloromethane	282
463291	Dichloromethane	282
463311	Dichloromethane	284
463314	Dichloromethane	284
463315	Dichloromethane	284
463319	Dichloromethane	284
463421	Selenic mixture	596
463422	Selenic mixture	596
463431	Molybdenum standard solution	476
463453	Morpholine	477
463508	Morin	477
463509	Morin	477
463608	Murexide	480
463609	Murexide	480
463651	Naphthalene	481
463654	Naphthalene	481
463655	Naphthalene	481
463831	N-1-Naphtylethylenediamine dihydrochloride	482
463891	alpha-Naphtholbenzein	482
463935	1-Naphthol	481
463984	2-Naphthol	481
463986	2-Naphthol	481
464221	Eriochrome black T	309
464222	Eriochrome black T	309
464231	Nessler's reagent single solution	484
464232	Nessler's reagent single solution	484
464241	Sudan black B	671
464271	Nickel standard solution	486
464384	Nickel, powder	486
464422	Nessler's reagent solution A	484
464432	Nessler's reagent solution B	484
464474	Nickel (II) acetate tetrahydrate	486
464476	Nickel (II) acetate tetrahydrate	486
464477	Nickel (II) acetate tetrahydrate	486
464545	Nickel (II) ammonium sulfate hexahydrate	486
464547	Nickel (II) ammonium sulfate hexahydrate	486
464604	Nickel (II) carbonate basic	487
464605	Nickel (II) carbonate basic	487
464644	Nickel (II) chloride hexahydrate	487
464645	Nickel (II) chloride hexahydrate	487
464647	Nickel (II) chloride hexahydrate	487
464685	Nickel (II) nitrate hexahydrate	487
464686	Nickel (II) nitrate hexahydrate	487
464772	Nickel (II) sulfate hexahydrate	488
464775	Nickel (II) sulfate hexahydrate	488
464777	Nickel (II) sulfate hexahydrate	488
464852	Nigrosine	489
464853	Nigrosine	489
464922	Ninhydrin	489
464928	Ninhydrin	489
465142	m-Nitrobenzaldehyde	497
465222	Nitrobenzene	497
465502	Nitroethane	498
465744	p-Nitrophenol	498
466182	p-Nitroso-n,n-dimethylaniline	499
466361	Nonylphenol ethoxylated 10 ETO	499
466753	Oil of cedar wood	501
466757	Oil of cedar wood	501
466782	Immersion oil	392
466783	Immersion oil	392
466792	Paraffin oil	510
466831	Holmium oxide	368
466858	Orcein	502
466859	Orcein	502
466961	Gold standard solution	352
467007	Gold(III) chloride trihydrate	353
467353	8-Hydroxyquinoline	390
467355	8-Hydroxyquinoline	390
467562	n-Octane	500
467731	Palladium (II) chloride	508
467737	Palladium (II) chloride	508
467781	Papanicolaou solution EA 50	509
467782	Papanicolaou solution EA 50	509
467783	Papanicolaou solution EA 50	509
467791	Papanicolaou solution OG 6	510
467792	Papanicolaou solution OG 6	510
467793	Papanicolaou solution OG 6	510
467938	Paraffin 56°C-58°C - Erbaplast (with DMSO)	510
467958	Paraffin 56-58°C - Erbaplast (without DMSO)	510
468121	n-Pentane	513
468122	n-Pentane	513
468123	n-Pentane	513
468141	n-Pentane 99%	512
468142	n-Pentane 99%	512
468151000	n-Pentane 99%	512
468161	n-Pentane	513
468162	n-Pentane	513
468204	n-Pentane 99%	512
468245	Pepsin HCl	514
468791	Lead standard solution	425

468866	Lead	426
468932	Lead (II) acetate trihydrate	427
468934	Lead (II) acetate trihydrate	427
468935	Lead (II) acetate trihydrate	427
468937	Lead (II) acetate trihydrate	427
468984	Lead (II) acetate basic	426
468985	Lead (II) acetate basic	426
468987	Lead (II) acetate basic	426
469055	Lead (IV) oxide	429
469057	Lead (IV) oxide	429
469353	Lead (II) nitrate	428
469355	Lead (II) nitrate	428
469356	Lead (II) nitrate	428
469357	Lead (II) nitrate	428
469404	Lead (II) oxide	429
469505	Lead (II) sulfate	429
469506	Lead (II) sulfate	429
469551	Piperidine	534
469552	Piperidine	534
469592	1-(2-Pyridylazo)-2-naphthol	581
469621	Pyridine	580
469622	Pyridine	580
469623	Pyridine	580
469624	Pyridine	580
469626	Pyridine	580
469629	Pyridine	580
469652	Pyridine	580
469753	Pyrocatechol	582
469971	Pumice stone	580
470017	Hexachloroplatinic acid hexahydrate	360
470038	Bromocresol purple	200
470039	Bromocresol purple	200
470067	m-Cresol purple	267
470068	m-Cresol purple	267
470071	Polyvinylpyrrolidone	535
470072	Polyvinylpyrrolidone	535
470081	Potassium standard solution	536
470143	Potassium acetate	536
470145	Potassium acetate	536
470146	Potassium acetate	536
470147	Potassium acetate	536
470285	Potassium bicarbonate	537
470286	Potassium bicarbonate	537
470287	Potassium bicarbonate	537
470289	Potassium bicarbonate	537
470336	Potassium dichromate	544
470337	Potassium dichromate	544
470451	Potassium dichromate 0.0417 mol/l (0.25N)	545
470501	Potassium dichromate 0.0167 mol/l (0.1 N)	546
470552	Potassium bisulfate	537
470556	Potassium bisulfate	537
470557	Potassium bisulfate	537
470655	Potassium bromate	538
470681	Potassium bromate 0.0167 mol/l (0.1N)	538
470701	Potassium bromide	539
470733	Potassium bromide	539
470734	Potassium bromide	539
470735	Potassium bromide	539
470737	Potassium bromide	539
470801	Potassium carbonate	539
470805	Potassium carbonate	539
470807	Potassium carbonate	539
471025	Potassium citrate tribasic monohydrate	544
471027	Potassium citrate tribasic monohydrate	544
471127	di-Potassium hexachloroplatinate	549
471171	Potassium chloride	540
471173	Potassium chloride	540
471175	Potassium chloride	540
471176	Potassium chloride	540
471177	Potassium chloride	540
471181	Potassium chloride	540
471215	Potassium chloride 3 mol/l (3N)	541
471225	Potassium chloride 3.5 mol/l (3.5N)	541
471235	Potassium chloride 3 mol/l (3N) + silver chloride	542
471245	Potassium chloride 3.5 mol/l (3.5N) + silver chloride	541
471255	Potassium chloride 0.01 mol/l (0.01N)	542
471265	Potassium chloride saturated solution	543
471275	Potassium chloride 3 mol/l (3N) water-glycerol solution	542
471285	Potassium chloride solution	543
471295	Potassium chromate	543
471297	Potassium chromate	543
471364	Potassium ferricyanide	547
471365	Potassium ferricyanide	547
471367	Potassium ferricyanide	547
471483	Potassium ferrocyanide trihydrate	547
471484	Potassium ferrocyanide trihydrate	547
471485	Potassium ferrocyanide trihydrate	547
471487	Potassium ferrocyanide trihydrate	547
471488	Potassium ferrocyanide trihydrate	547
471555	Potassium fluoride dihydrate	549
471561	Potassium fluoride	548
471562	Potassium fluoride	548
471563	Potassium fluoride	548
471564	Potassium fluoride	548
471584	Potassium fluorotitanate	549
471681	Potassium phosphate mono-basic	566
471682	Potassium phosphate mono-basic	566
471685	Potassium phosphate mono-basic	566
471686	Potassium phosphate mono-basic	566
471687	Potassium phosphate mono-basic	566
471761	Potassium phosphate dibasic trihydrate	565
471764	Potassium phosphate dibasic trihydrate	565
471766	Potassium phosphate dibasic trihydrate	565
471767	Potassium phosphate dibasic trihydrate	565
471781	Potassium phosphate dibasic anhydrous	565
471782	Potassium phosphate dibasic anhydrous	565
471785	Potassium phosphate dibasic anhydrous	565
471786	Potassium phosphate dibasic anhydrous	565
471787	Potassium phosphate dibasic anhydrous	565
471788	Potassium phosphate dibasic anhydrous	565
471865	Potassium hydrogen phthalate	550
471866	Potassium hydrogen phthalate	550
471867	Potassium hydrogen phthalate	550
471913	Potassium hydrogen phthalate	550
472021000	Potassium hydroxide 0.5 mol/l (0.5N) in ethanol	555
472022000	Potassium hydroxide 0.5 mol/l (0.5N) in ethanol	555
472041000	Potassium hydroxide 0.1 mol/l (0.1N) in ethanol	557
472042000	Potassium hydroxide 0.1 mol/l (0.1N) in ethanol	557
472056	Potassium hydroxide, pellets	552
472057	Potassium hydroxide, pellets	552
472059	Potassium hydroxide, pellets	552
472086	Potassium hydroxide, pellets	552
472097	Potassium hydroxide, pellets	552
472103	Potassium hydroxide solution 45%	553
472171	Potassium hydroxide, pellets	552
472172	Potassium hydroxide, pellets	552
472173	Potassium hydroxide, pellets	552
472175	Potassium hydroxide, pellets	552
472281000	Potassium hydroxide 1 mol/l (1N)	554
472282000	Potassium hydroxide 1 mol/l (1N)	554
472287000	Potassium hydroxide 1 mol/l (1N)	554
472311	Potassium hydroxide 1 mol/l (1N)	554
472331000	Potassium hydroxide 0.5 mol/l (0.5N)	554
472332000	Potassium hydroxide 0.5 mol/l (0.5N)	554
472337000	Potassium hydroxide 0.5 mol/l (0.5N)	554
472364000	Potassium hydroxide 0.5 mol/l (0.5N) in methanol	555
472366000	Potassium hydroxide 0.5 mol/l (0.5N) in methanol	555
472367000	Potassium hydroxide 0.5 mol/l (0.5N) in methanol	555
472391	Potassium hydroxide 0.5 mol/l (0.5N)	555
472421000	Potassium hydroxide 0.25 mol/l (0.25N)	556
472422000	Potassium hydroxide 0.25 mol/l (0.25N)	556
472427000	Potassium hydroxide 0.25 mol/l (0.25N)	556
472451000	Potassium hydroxide 0.1 mol/l (0.1N)	557
472452000	Potassium hydroxide 0.1 mol/l (0.1N)	557
472457000	Potassium hydroxide 0.1 mol/l (0.1N)	557
472484000	Potassium hydroxide 0.1 mol/l (0.1N) in methanol	557
472486000	Potassium hydroxide 0.1 mol/l (0.1N) in methanol	557
472511	Potassium hydroxide 0.1 mol/l (0.1N)	557
472563	Potassium Iodate	558
472565	Potassium Iodate	558
472601	Potassium iodate 0.0167 mol/l (0.1N)	558
472631	Potassium iodate 0.00167 mol/l (0.01N)	558
472641	Potassium hydrogen iodate	550
472735	Potassium iodide	559
472736	Potassium iodide	559
472737	Potassium iodide	559
472815000	Potassium iodide solution 3.9%	559
472821	Potassium iodide	559
472831	Potassium iodide solution 10%	559
473001	Potassium nitrate	561
473006	Potassium nitrate	561
473007	Potassium nitrate	561
473009	Potassium nitrate	561
473045	Potassium nitrate 1 mol/l (1N)	561

473084	Potassium nitrite	561
473133	Potassium oxalate monohydrate	562
473135	Potassium oxalate monohydrate	562
473137	Potassium oxalate monohydrate	562
473332	Potassium periodate	562
473334	Potassium periodate	562
473381	Potassium permanganate	562
473384	Potassium permanganate	562
473385	Potassium permanganate	562
473387	Potassium permanganate	562
473514000	Potassium permanganate 0.2 mol/l (1N)	563
473565000	Potassium permanganate 0.02 mol/l (0.1N)	563
473567000	Potassium permanganate 0.02 mol/l (0.1N)	563
473591	Potassium permanganate 0.02 mol/l (0.1N)	563
473661	Potassium permanganate 0.002 mol/l (0.01N)	564
473701	Potassium persulfate	564
473835	Potassium pyroantimonate acid	566
473915	tetra-Potassium pyrophosphate	567
474016	Potassium pyrosulphate	567
474017	Potassium pyrosulphate	567
474112	Potassium sodium tartrate tetrahydrate	568
474114	Potassium sodium tartrate tetrahydrate	568
474115	Potassium sodium tartrate tetrahydrate	568
474116	Potassium sodium tartrate tetrahydrate	568
474117	Potassium sodium tartrate tetrahydrate	568
474119	Potassium sodium tartrate tetrahydrate	568
474166	Potassium sulfate	569
474167	Potassium sulfate	569
474169	Potassium sulfate	569
474205	Potassium sulfate	568
474355	Potassium thiocyanate	570
474357	Potassium thiocyanate	570
474465	Potassium tartrate	569
474467	Potassium tartrate	569
474515	Potassium L-tartrate monobasic	569
474517	Potassium L-tartrate monobasic	569
474652	Potassium tellurite	570
474708	L(-)Proline	572
474709	L(-)Proline	572
474756	Isopropylamine	414
474807	n-Propyl acetate	578
474821	Isopropyl acetate	413
474871	Propylene carbonate	579
475132	Raffinose	585
475151	Copper standard solution	260
475185	Copper electrolytic, wire	261
475187	Copper electrolytic, wire	261
475215	Copper electrolytic rebaked, sheet	261
475305	Copper electrolytic, turnings	261
475307	Copper electrolytic, turnings	261
475334	Copper reduced, powder	261
475337	Copper reduced, powder	261
475405	Copper (II) acetate hydrate	262
475407	Copper (II) acetate hydrate	262
475553	Copper (II) carbonate (basic)	262
475555	Copper (II) carbonate (basic)	262
475557	Copper (II) carbonate (basic)	262
475605	Copper (I) chloride	262
475607	Copper (I) chloride	262
475685	Copper (II) chloride dihydrate	263
475687	Copper (II) chloride dihydrate	263
475782	Copper (II) nitrate trihydrate	264
475783	Copper (II) nitrate trihydrate	264
475784	Copper (II) nitrate trihydrate	264
475786	Copper (II) nitrate trihydrate	264
475994	Copper (II) oxide	264
475997	Copper (II) oxide	264
476092	Copper (II) sulfate pentahydrate	265
476096	Copper (II) sulfate pentahydrate	265
476097	Copper (II) sulfate pentahydrate	265
476099	Copper (II) sulfate pentahydrate	265
476154	Copper (II) sulfate pentahydrate	265
476243	Copper (II) sulfate anhydrous	265
476245	Copper (II) sulfate anhydrous	265
476247	Copper (II) sulfate anhydrous	265
476312	L(+)Rhamnose	587
476565	Resorcinol	587
476608	D(-)Ribose	589
476609	D(-)Ribose	589
476671	Potassium permanganate	562
476687	Quinaldine red	584
476688	Quinaldine red	584
476762	Congo red	259
476764	Congo red	259
476778	o-Cresol red	266
476838	Phenol red	525
476839	Phenol red	525
476881	Methyl red	469
476882	Methyl red	469
476883	Methyl red	469
476941	Ponceau red BS	535
476951	Neutral red	485
476961	Red for oils O	586
476981	Ponceau red S	535
476982	Ponceau red S	535
477011	Nuclear fast red	499
477012	Nuclear fast red	499
477153	Sand purified	594
477182	D(+)-Sucrose	671
477183	D(+)-Sucrose	671
477186	D(+)-Sucrose	671
477187	D(+)-Sucrose	671
477232	Safranine T	592
477241	Safranine T hydroalcoholic solution for Gram-Hucker Kit	592
477591	Schiff's reagent for PAS coloration	595
477592	Schiff's reagent for PAS coloration	595
477601	Schiff's reagent for Aldehydes	595
477691	Selenium standard solution	596
477702	Selenium, powder	597
477707	Selenium, powder	597
477721	Molecular sieves 3 A	475
477731	Molecular sieves 3 A	475
477762	Selenium dioxide	597
477961	Silicon standard solution	600
478032	Redox solution 220 mV at 25°C	586
478052	Redox solution 468 mV at 25°C	586
478081	Sodium, metallic	610
478101	Sodium standard solution	610
478132	Sodium acetate trihydrate	611
478135	Sodium acetate trihydrate	611
478136	Sodium acetate trihydrate	611
478137	Sodium acetate trihydrate	611
478139	Sodium acetate trihydrate	611
478163	Sodium acetate anhydrous	610
478165	Sodium acetate anhydrous	610
478166	Sodium acetate anhydrous	610
478167	Sodium acetate anhydrous	610
478232	Sodium aluminate	612
478237	Sodium aluminate	612
478357	Sodium ammonium hydrogen phosphate	612
478481	Sodium azide	613
478482	Sodium azide	613
478484	Sodium azide	613
478531	Sodium bicarbonate	614
478532	Sodium bicarbonate	614
478535	Sodium bicarbonate	614
478536	Sodium bicarbonate	614
478537	Sodium bicarbonate	614
478673	Sodium bisulfate monohydrate	614
478675	Sodium bisulfate monohydrate	614
478676	Sodium bisulfate monohydrate	614
478677	Sodium bisulfate monohydrate	614
478812	Sodium tetraborate decahydrate	654
478815	Sodium tetraborate decahydrate	654
478816	Sodium tetraborate decahydrate	654
478817	Sodium tetraborate decahydrate	654
478819	Sodium tetraborate decahydrate	654
478953	Sodium borohydride	615
478955	Sodium borohydride	615
478957	Sodium borohydride	615
478964	Sodium borohydride	615
479055	Sodium bromide	615
479057	Sodium bromide	615
479121	Sodium carbonate decahydrate	616
479122	Sodium carbonate decahydrate	616
479125	Sodium carbonate decahydrate	616
479126	Sodium carbonate decahydrate	616
479127	Sodium carbonate decahydrate	616
479151	Sodium carbonate solution 20%	617
479186	Sodium carbonate 0.5 mol/l (1N)	618
479211	Sodium carbonate 0.05 mol/l (0.1N)	618
479255	Sodium carbonate monohydrate	617
479256	Sodium carbonate monohydrate	617
479257	Sodium carbonate monohydrate	617
479301	Sodium carbonate anhydrous	616
479302	Sodium carbonate anhydrous	616
479305	Sodium carbonate anhydrous	616
479306	Sodium carbonate anhydrous	616
479307	Sodium carbonate anhydrous	616
479331	Sodium carbonate anhydrous	616
479371	Sodium cyanoborohydride	621
479484	Sodium citrate tribasic dihydrate	620
479485	Sodium citrate tribasic dihydrate	620
479487	Sodium citrate tribasic dihydrate	620
479488	Sodium citrate tribasic dihydrate	620
479652	Sodium chloride	618
479661	Sodium chloride	619
479662	Sodium chloride	619
479663	Sodium chloride	619
479671	Sodium chloride	618
479681	Sodium chloride	619
479685	Sodium chloride	619
479686	Sodium chloride	619
479687	Sodium chloride	619
479689	Sodium chloride	619
479781	Sodium chloride 0.1 mol/l (0,1N)	620
479833	Sodium cobalt nitrite	621

479911	Tris (hydroxymethyl)-amino-methane hydrochloride	721
479912	Tris (hydroxymethyl)-amino-methane hydrochloride	721
479913	Tris (hydroxymethyl)-amino-methane hydrochloride	721
479921	Sodium dichloroisocyanurate dihydrate	622
479954	Sodium fluoride	622
479955	Sodium fluoride	622
479957	Sodium fluoride	622
480005	Sodium hexafluorosilicate	624
480045	Sodium formate	623
480046	Sodium formate	623
480081	Sodium phosphate monobasic monohydrate	648
480082	Sodium phosphate monobasic monohydrate	648
480085	Sodium phosphate monobasic monohydrate	648
480086	Sodium phosphate monobasic monohydrate	648
480087	Sodium phosphate monobasic monohydrate	648
480131	Sodium phosphate dibasic dodecahydrate	647
480132	Sodium phosphate dibasic dodecahydrate	647
480133	Sodium phosphate dibasic dodecahydrate	647
480134	Sodium phosphate dibasic dodecahydrate	647
480135	Sodium phosphate dibasic dodecahydrate	647
480136	Sodium phosphate dibasic dodecahydrate	647
480137	Sodium phosphate dibasic dodecahydrate	647
480141	Sodium phosphate dibasic anhydrous	646
480142	Sodium phosphate dibasic anhydrous	646
480143	Sodium phosphate dibasic anhydrous	646
480144	Sodium phosphate dibasic anhydrous	646
480222	Sodium phosphate dibasic dihydrate	646
480225	Sodium phosphate dibasic dihydrate	646
480226	Sodium phosphate dibasic dihydrate	646
480227	Sodium phosphate dibasic dihydrate	646
480271	Sodium phosphate tribasic dodecahydrate	649
480272	Sodium phosphate tribasic dodecahydrate	649
480275	Sodium phosphate tribasic dodecahydrate	649
480276	Sodium phosphate tribasic dodecahydrate	649
480277	Sodium phosphate tribasic dodecahydrate	649
480501	Sodium hydroxide, pellets	626
480502	Sodium hydroxide, pellets	626
480505	Sodium hydroxide, pellets	626
480507	Sodium hydroxide, pellets	626
480508	Sodium hydroxide, pellets	626
480509	Sodium hydroxide, pellets	626
480522	Sodium hydroxide, pellets	626
480525	Sodium hydroxide, pellets	626
480527	Sodium hydroxide, pellets	626
480561	Sodium hydroxide solution 32%	628
480562	Sodium hydroxide solution 32%	628
480563	Sodium hydroxide solution 32%	628
480564	Sodium hydroxide solution 32%	628
480566	Sodium hydroxide solution 32%	628
480591	Sodium hydroxide solution 35%	628
480593	Sodium hydroxide solution 35%	628
480621	Sodium hydroxide solution 20% w/w	630
480622	Sodium hydroxide solution 20% w/w	630
480681000	Sodium hydroxide 2 mol/l (2N)	633
480682000	Sodium hydroxide 2 mol/l (2N)	633
480684000	Sodium hydroxide 2 mol/l (2N)	633
480686000	Sodium hydroxide 2 mol/l (2N)	633
480687000	Sodium hydroxide 2 mol/l (2N)	633
480711000	Sodium hydroxide 1 mol/l (1N)	634
480713000	Sodium hydroxide 1 mol/l (1N)	634
480714000	Sodium hydroxide 1 mol/l (1N)	634
480717000	Sodium hydroxide 1 mol/l (1N)	634
480741	Sodium hydroxide 1 mol/l (1N)	634
480771000	Sodium hydroxide 0.5 mol/l (N/2)	634
480772000	Sodium hydroxide 0.5 mol/l (N/2)	634
480773000	Sodium hydroxide 0.5 mol/l (N/2)	634
480777000	Sodium hydroxide 0.5 mol/l (N/2)	634
480801	Sodium hydroxide 0.5 mol/l (N/2)	634
480837000	Sodium hydroxide 0.357 mol/l (0.357N)	635
480861000	Sodium hydroxide 0.25 mol/l (N/4)	635
480862000	Sodium hydroxide 0.25 mol/l (N/4)	635
480863000	Sodium hydroxide 0.25 mol/l (N/4)	635
480867000	Sodium hydroxide 0.25 mol/l (N/4)	635
480891000	Sodium hydroxide 0.1 mol/l (N/10)	636
480892000	Sodium hydroxide 0.1 mol/l (N/10)	636
480893000	Sodium hydroxide 0.1 mol/l (N/10)	636
480895000	Sodium hydroxide 0.1 mol/l (N/10)	636
480897000	Sodium hydroxide 0.1 mol/l (N/10)	636
480921	Sodium hydroxide 0.1 mol/l (N/10)	636
481001	Sodium hydroxide 0.01 mol/l (N/100)	637
481162	Sodium iodide	639
481163	Sodium iodide	639
481164	Sodium iodide	639
481181	Sodium hypochlorite solution in water	638
481185	Sodium hypochlorite solution in water	638
481201	Sodium hypophosphite	639
481202	Sodium hypophosphite	639
481231	Sodium laurylsulfate	639
481233	Sodium laurylsulfate	639
481235	Sodium laurylsulfate	639
481283	Sodium metabisulfite	640
481286	Sodium metabisulfite	640
481287	Sodium metabisulfite	640
481288	Sodium metabisulfite	640
481552	Sodium metaphosphate	641
481557	Sodium metaphosphate	641
481684	Sodium molybdate dihydrate	641
481685	Sodium molybdate dihydrate	641
481687	Sodium molybdate dihydrate	641
481751	Sodium nitrate	642
481755	Sodium nitrate	642
481756	Sodium nitrate	642
481757	Sodium nitrate	642
481759	Sodium nitrate	642
481825	Sodium nitrite	642
481826	Sodium nitrite	642
481827	Sodium nitrite	642
481829	Sodium nitrite	642
481932	Sodium nitroprusside dihydrate	643
481934	Sodium nitroprusside dihydrate	643
482041	Sodium o-Phosphite pentahydrate	649
482042	Sodium o-Phosphite pentahydrate	649
482064	Sodium oxalate	644
482065	Sodium oxalate	644
482067	Sodium oxalate	644
482101	Sodium oxalate	643
482183	Sodium perborate tetrahydrate	644
482185	Sodium perborate tetrahydrate	644
482187	Sodium perborate tetrahydrate	644
482204	Sodium perchlorate monohydrate	644
482234	Sodium metaperiodate	640
482236	Sodium metaperiodate	640
482252	Sodium peroxide	645
482363	Sodium persulfate	645
482365	Sodium persulfate	645
482367	Sodium persulfate	645
482421	Sodium pyrophosphate decahydrate	650
482422	Sodium pyrophosphate decahydrate	650
482426	Sodium pyrophosphate decahydrate	650
482427	Sodium pyrophosphate decahydrate	650
482957	Sodium sulfate decahydrate	652
482959	Sodium sulfate decahydrate	652
483001	Sodium sulfate anhydrous	651
483005	Sodium sulfate anhydrous	651
483006	Sodium sulfate anhydrous	651
483007	Sodium sulfate anhydrous	651
483009	Sodium sulfate anhydrous	651
483011	Sodium sulfate anhydrous	652
483017	Sodium sulfate anhydrous	652
483019	Sodium sulfate anhydrous	652
483025	Sodium sulfate anhydrous	651
483252	Sodium sulfite anhydrous	653
483256	Sodium sulfite anhydrous	653
483257	Sodium sulfite anhydrous	653
483258	Sodium sulfite anhydrous	653
483354	Sodium sulfocyanate	653
483356	Sodium sulfocyanate	653
483484	Sodium sulfide nonahydrate	652
483485	Sodium sulfide nonahydrate	652
483487	Sodium sulfide nonahydrate	652
483489	Sodium sulfide nonahydrate	652
483551	Sodium succinate hexahydrate	651
483554	Sodium succinate hexahydrate	651
483555	Sodium succinate hexahydrate	651
483557	Sodium succinate hexahydrate	651
483561	Sodium tartrate dihydrate	654
483635	Sodium tartrate dihydrate	654
483636	Sodium tartrate dihydrate	654
483637	Sodium tartrate dihydrate	654
483703	Sodium hydrogen tartrate monohydrate	625
483706	Sodium hydrogen tartrate monohydrate	625
483735	Sodium tetraborate anhydrous	654
483736	Sodium tetraborate anhydrous	654
483751	Sodium tetraphenylborate	655
483758	Sodium tetraphenylborate	655

483821	Sodium thiosulfate pentahydrate	656
483825	Sodium thiosulfate pentahydrate	656
483826	Sodium thiosulfate pentahydrate	656
483827	Sodium thiosulfate pentahydrate	656
483829	Sodium thiosulfate pentahydrate	656
484026	Sodium thiosulfate 1 mol/l (1N)	656
484071000	Sodium thiosulfate 0.1 mol/l (0.1N)	657
484072000	Sodium thiosulfate 0.1 mol/l (0.1N)	657
484077000	Sodium thiosulfate 0.1 mol/l (0.1N)	657
484121	Sodium thiosulfate 0.1 mol/l (0.1N)	657
484141	Sodium thiosulfate 0.0394 mol/l (0.0394N)	658
484161	Sodium thiosulfate 0.01 mol/l (0.01N)	658
484233	Sodium tungstate dihydrate	658
484236	Sodium tungstate dihydrate	658
484282	Sodium tungstate solution 10%	658
484701	D-Sorbitol	660
484704	D-Sorbitol	660
484705	D-Sorbitol	660
484861	Tin standard solution	702
484914	Tin, powder	703
484917	Tin, powder	703
485002	Tin (II) chloride dihydrate	703
485004	Tin (II) chloride dihydrate	703
485005	Tin (II) chloride dihydrate	703
485007	Tin (II) chloride dihydrate	703
485074	Tin (IV) chloride pentahydrate	704
485076	Tin (IV) chloride pentahydrate	704
485304	Strontium acetate	668
485354	Strontium bromide monohydrate	668
485391	Strontium standard solution	668
485404	Strontium carbonate	669
485455	Strontium chloride hexahydrate	669
485457	Strontium chloride hexahydrate	669
485605	Strontium nitrate	669
485607	Strontium nitrate	669
485705	Strontium sulfate	670
485902	Sudan III	671
485961	Sulfanilamide	673
485971	Sulfanilamide	673
486211	Buffer pH 1	203
486221	Buffer pH 1	203
486231	Buffer pH 2	204
486241	Buffer pH 2	204
486251	Buffer pH 3	204
486252	Buffer pH 3	204
486261	Buffer pH 3	204
486271	Buffer pH 4	205
486273	Buffer pH 4	205
486274	Buffer pH 4	205
486276	Buffer pH 4	205
486281	Buffer pH 4	205
486291	Buffer pH 4	205
486301	Buffer pH 5	206
486311	Buffer pH 5	206
486321	Buffer pH 6	206
486331	Buffer pH 6	206
486401	Buffer pH 6.8	207
486411	Buffer pH 7.20 Weise	208
486421	Buffer pH 7	207
486431	Buffer pH 7	208
486441	Buffer pH 7.2	208
486451	Buffer pH 7	207
486453	Buffer pH 7	207
486454	Buffer pH 7	207
486455	Buffer pH 7	207
486456	Buffer pH 7	207
486461	Buffer pH 7.4	208
486531	Buffer pH 8	209
486541	Buffer pH 8	208
486542	Buffer pH 8	208
486571	Buffer pH 9	209
486581	Buffer pH 10.06	210
486591	Buffer pH 9	209
486593	Buffer pH 9	209
486594	Buffer pH 9	209
486601	Buffer pH 10	210
486611	Buffer pH 10	210
486613	Buffer pH 10	210
486614	Buffer pH 10	210
486615	Buffer pH 10	210
486621	Buffer pH 12	211
486631	Buffer pH 11	211
486641	Buffer pH 13	211
486691	Buffer pH 12	211
486701	Buffer pH 13	211
486741	Buffer pH 3.56	205
486751	Buffer pH 1.68	204
486761	Buffer pH 4	205
486762	Buffer pH 4	205
486771	Buffer pH 11	211
486772	Buffer pH 11	211
486791	Buffer pH 7	207
486792	Buffer pH 7	207
486811	Buffer pH 10.06	210
486812	Buffer pH 10.06	210
486841	Buffer pH 4.62	206
486871	Buffer pH 6.88	207
486881	Buffer pH 9.22	209
486903	Tartrazine	689
486953	Taurine	689
487051	Tetrabutylammonium bromide	691
487101	Tetrabutylammonium bisulfate	691
487152	Tetraethylammonium bromide	693
487301	Tetrahydrofuran	694
487303	Tetrahydrofuran	694
487305	Tetrahydrofuran	694
487307	Tetrahydrofuran	694
487308	Tetrahydrofuran	694
487309	Tetrahydrofuran	694
487345	Tetrahydrofuran	694
487346	Tetrahydrofuran	694
487352	Tetrahydrofuran	694
487491	Tetramethylammonium hydroxide 10%	695
487492	Tetramethylammonium hydroxide 10%	695
487601	n,n,n',n'-Tetramethyl-p-phenylenediamine dihydrochloride	696
487728	Thymolphthalein	701
487729	Thymolphthalein	701
487803	Thioacetamide	697
487807	Thioacetamide	697
488101	Thiourea	698
488104	Thiourea	698
488105	Thiourea	698
488107	Thiourea	698
488131	Tiron	704
488132	Tiron	704
488152	L(-)Tyrosine	723
488162	Tisab III solution	705
488251	Titanium dioxide	706
488256	Titanium dioxide	706
488257	Titanium dioxide	706
488421	Titanium isopropylate	706
488461	o-Tolidine solution 0.1%	707
488531	Toluene	708
488551	Toluene	709
488552	Toluene	709
488555	Toluene	709
488556	Toluene	709
488557	Toluene	709
488591	Toluene	708
488592	Toluene	708
488601	Toluene	708
488602	Toluene	708
488661	p-Toluene sulfonamide	710
488671	p-Toluenesulfonylchloride	711
488672	p-Toluenesulfonylchloride	711
488804	p-Toluidine	711
489054	Litmus	434
489152	Triacetin	712
489382	1,2,4-Trichlorobenzene	713
489501	Triethanolamine	714
489504	Triethanolamine	714
489556	Triethylamine	714
489561	n,o-Bis(trimethylsilyl)-trifluoroacetamide	190
489581	Trioctylphosphine oxide	718
489591	Triphenylphosphine	719
489631	Triethylamine	714
489633	Triethylamine	714
489651	2,3,5-Triphenyltetrazolium chloride	719
489803	Trimethylamine hydrochloride	717
489831	Trimethylcetylammonium bromide	717
489833	Trimethylcetylammonium bromide	717
489834	Trimethylcetylammonium bromide	717
489881	2,4,6-Tri-(2-pyridyl)-s-triazine	719
489934	n,o-Bis(trimethylsilyl)acetamide	190
489951	n-Trimethylsilylacetamide	718
489971	Tris (hydroxymethyl)-aminomethane	719
489973	Tris (hydroxymethyl)-aminomethane	719
489981	Tris (hydroxymethyl)-aminomethane	720
489982	Tris (hydroxymethyl)-aminomethane	720
489983	Tris (hydroxymethyl)-aminomethane	720
489984	Tris (hydroxymethyl)-aminomethane	720
489985	Tris (hydroxymethyl)-aminomethane	720
490001	Tropaeolin O	721
490002	Tropaeolin O	721
490162	1,1,1-Trifluoroacetyltrifluoroacetone	716
490422	Tauber reagent	689
490751	Urea	724
490757	Urea	724
490758	Urea	724
490759	Urea	724
491091	Vanadium standard solution	725
491103	Vanadium (V) oxide	726
491105	Vanadium (V) oxide	726
491152	Brilliant green	196
491201	Bromocresol Green	199
491207	Bromocresol Green	199
491208	Bromocresol Green	199
491303	Malachite green	444
491304	Malachite green	444
491351	Methyl green	465
491352	Methyl green	465
491371	Light green	430
491372	Light green	430
491391	Fast green FCF	331
491502	Crystal violet	268
491561	Crystal violet oxalate for Gram-Hucker Kit	268
491871	Pyrocatechol violet	582

491872	Pyrocatechol violet	582
492011	Wright's stain solution in methanol	731
492211	Xylenecyanol	733
492212	Xylenecyanol	733
492301	Xylene, mix of isomers	732
492303	Xylene, mix of isomers	732
492304	Xylene, mix of isomers	732
492305	Xylene, mix of isomers	732
492306	Xylene, mix of isomers	732
492358	Xylene, mix of isomers	732
492359	Xylene, mix of isomers	732
492401	o-Xylene	733
492403	o-Xylene	733
492404	o-Xylene	733
492803	D(+)Xylose	734
492804	D(+)Xylose	734
493101	Ziehl-Neelsen's reagent	737
493102	Ziehl-Neelsen's reagent	737
493151	Zinc standard solution	738
493303	Zinc, granular	738
493307	Zinc, granular	738
493309	Zinc, granular	738
493451	Zinc, granular	738
493507	Zinc, foil	738
493702	Zinc, powder	739
493705	Zinc, powder	739
493707	Zinc, powder	739
493803	Zinc acetate dihydrate	739
493806	Zinc acetate dihydrate	739
493807	Zinc acetate dihydrate	739
494006	Zinc carbonate basic	740
494104	Zinc chloride anhydrous	740
494105	Zinc chloride anhydrous	740
494107	Zinc chloride anhydrous	740
494311	Zinc dibenzyldithiocarbamate	741
494506	Zinc nitrate hexahydrate	741
494507	Zinc nitrate hexahydrate	741
494602	Zinc oxide	742
494606	Zinc oxide	742
494607	Zinc oxide	742
494901	Zinc sulfate heptahydrate	743
494905	Zinc sulfate heptahydrate	743
494906	Zinc sulfate heptahydrate	743
494907	Zinc sulfate heptahydrate	743
494909	Zinc sulfate heptahydrate	743
494921	Zinc sulfate 0.1 mol/l (0.2N)	744
494931	Zinc sulfate 0.05 mol/l (0.05N)	744
495005	Zinc sulfate monohydrate	743
495007	Zinc sulfate monohydrate	743
495105	Zinc sulfide	744
495107	Zinc sulfide	744
495144	Zincon	744
495305	Zirconium (IV) oxide	745
497471	Cadmium standard solution	219
497475	Cadmium standard solution	219
497551	Mercury standard solution	452
497555	Mercury standard solution	452
502000	Acetic acid 1 mol/l (1N)	124
502002	Boric acid 4%	194
502010	Hydrochloric acid 4 mol/l (4N)	377
502011	Hydrochloric acid 3 mol/l (3N)	378
502020	Sulfuric acid d=1,820	686
502044	Hydrogen peroxide solution 30%	388
502046	Perchloric acid 60%	516
502050	Amidoschwarz 10B solution	144
502051	Amidoschwarz 10B solution	144
502062	Sand of Fontainebleau	593
502063	Sand of Fontainebleau	593
502064	Sand of Fontainebleau	593
502087	Silver nitrate 0.03 mol/l (0.03N)	606
502092	Potassium hydroxide 0.23 mol/l (0.23N)	556
502100000	Sulfuric acid 0.1 mol/l (0.2N)	683
502112	Sodium hydroxide solution 35-37%	628
502113	Sodium hydroxide solution 35-37%	628
502120	Kjeldahl selenium catalyst	420
502121	Kjeldahl catalyst for water analysis	420
502122	Kjeldahl catalyst for water analysis	420
502123	Kjeldahl titanium catalyst	420
502131	Sodium chloride 5 mol/l (5N)	619
502202	Sulfuric acid 0.26 mol/l (0.52N)	682
502212	Potassium hydroxide 0.46 mol/l (0.46N)	556
502302	Sulfuric acid 95 - 97 %	677
502591	Sulfuric acid 10% v/v	680
502601	Boric acid 4 % with indicator	194
502611	Boric acid 1% with indicator	195
502612	Boric acid 1% with indicator	195
502621	Hydrochloric acid 3 mol/l (3N)	378
502622	Hydrochloric acid 3 mol/l (3N)	378
502631	Hydrochloric acid 0.2 mol/l (0.2N)	380
502641	Sulfuric acid 98%	675
502651	Sulfuric acid 0.13 mol/l (0.26N)	683
502671	Mixture for checking solderings	474
502681	Potassium chromate 5% solution	543
502701	Carrez reagent zinc salt	235
502711	Carrez reagent potassium salt	235
502721	Sodium hydroxide solution 40%	627
502731	Sodium hydroxide solution 30%	629
502741	Sodium hydroxide solution 30%	629
502761	Hydrochloric acid 1.128% (m/v)	376
502771	Sulfuric acid 72%	679
502781000	Sodium hydroxide 0.2 mol/l (N/5)	635
502782	Sodium hydroxide 0.2 mol/l (N/5)	635
502791	Kjeldahl catalyst without selenium and titanium	420
502792	Kjeldahl catalyst without selenium and titanium	420
502801	Kjeldahl titanium catalyst	420
502811	Kjeldahl antifoam	419
502821	Kjeldahl catalyst according to Wieninger	419
502831	Hydrochloric acid 6 mol/l (6N)	376
502832	Hydrochloric acid 6 mol/l (6N)	376
503171	Bromate standard solution	197
503173	Bromate standard solution	197
503181	Chlorate standard solution	243
503183	Chlorate standard solution	243
503191	Chlorite standard solution	243
503193	Chlorite standard solution	243
503194	di-Ammonium hydrogen phosphate 25 mg/L solution	159
503195	Ammonium nitrate 200 mg/L solution	161
503196	Magnesium nitrate 10 g/L solution	441
503197	Nickel (II) nitrate 10g/l	488
503198	Palladium nitrate 2 g/l solution	509
503211	Bromide standard solution	198
503213	Bromide standard solution	198
503221	Calcium standard solution	222
503223	Calcium standard solution	222
503231	Chloride standard solution	243
503233	Chloride standard solution	243
503241	Chromate standard solution	250
503243	Chromate standard solution	250
503251	Fluoride standard solution	336
503253	Fluoride standard solution	336
503261	Iodide standard solution	396
503263	Iodide standard solution	396
503271	Potassium standard solution	536
503273	Potassium standard solution	536
503281	Lithium standard solution	431
503283	Lithium standard solution	431
503291	Magnesium standard solution	437
503293	Magnesium standard solution	437
503301	Sodium standard solution	610
503303	Sodium standard solution	610
503311	Ammonium standard solution	152
503313	Ammonium standard solution	152
503321	Nitrite standard solution	497
503323	Nitrite standard solution	497
503331	Nitrate standard solution	491
503333	Nitrate standard solution	491
503341	Phosphate standard solution	528
503343	Phosphate standard solution	528
503351	Sulfate standard solution	673
503353	Sulfate standard solution	673
503358	Cyanide standard solution	269
503361	Strontium standard solution	668
503389	Calcium standard solution	222
503390	Magnesium standard solution	437
503401	Silver standard solution	602
503403	Silver standard solution	602
503405	Silver standard solution	602
503407	Silver standard solution	602
503411	Aluminum standard solution	139
503413	Aluminum standard solution	139
503415	Aluminum standard solution	139
503417	Aluminum standard solution	139
503421	Arsenic standard solution	172
503423	Arsenic standard solution	172
503425	Arsenic standard solution	172
503427	Arsenic standard solution	172
503431	Gold standard solution	352
503433	Gold standard solution	352
503435	Gold standard solution	352
503437	Gold standard solution	352
503441	Boron standard solution	196
503443	Boron standard solution	196
503445	Boron standard solution	196
503447	Boron standard solution	196
503451	Barium standard solution	178
503453	Barium standard solution	178
503455	Barium standard solution	178
503457	Barium standard solution	178
503461	Beryllium standard solution	189
503463	Beryllium standard solution	189
503471	Bismuth standard solution	191
503473	Bismuth standard solution	191
503475	Bismuth standard solution	191
503477	Bismuth standard solution	191
503481	Calcium standard solution	221
503483	Calcium standard solution	221
503485	Calcium standard solution	221
503487	Calcium standard solution	221
503491	Cadmium standard solution	219
503493	Cadmium standard solution	219
503495	Cadmium standard solution	219
503497	Cadmium standard solution	219
503501	Cerium standard solution	237
503503	Cerium standard solution	237
503505	Cerium standard solution	237
503507	Cerium standard solution	237
503511	Cobalt standard solution	256
503513	Cobalt standard solution	256
503515	Cobalt standard solution	256
503517	Cobalt standard solution	256
503521	Chromium standard solution	251
503523	Chromium standard solution	251
503525	Chromium standard solution	251
503527	Chromium standard solution	251
503531	Cesium standard solution	239
503533	Cesium standard solution	239
503535	Cesium standard solution	239

503537	Cesium standard solution	239
503541	Copper standard solution	260
503543	Copper standard solution	260
503545	Copper standard solution	260
503547	Copper standard solution	260
503571	Europium standard solution	330
503573	Europium standard solution	330
503575	Europium standard solution	330
503577	Europium standard solution	330
503581	Iron standard solution	400
503583	Iron standard solution	400
503585	Iron standard solution	400
503587	Iron standard solution	400
503601	Gadolinium standard solution	344
503603	Gadolinium standard solution	344
503605	Gadolinium standard solution	344
503607	Gadolinium standard solution	344
503611	Lutetium standard solution	436
503613	Lutetium standard solution	436
503615	Lutetium standard solution	436
503617	Lutetium standard solution	436
503631	Mercury standard solution	452
503633	Mercury standard solution	452
503635	Mercury standard solution	452
503637	Mercury standard solution	452
503640	Mercury standard solution	452
503651	Indium standard solution	395
503653	Indium standard solution	395
503655	Indium standard solution	395
503657	Indium standard solution	395
503671	Potassium standard solution	536
503673	Potassium standard solution	536
503675	Potassium standard solution	536
503677	Potassium standard solution	536
503681	Lanthanum standard solution	423
503683	Lanthanum standard solution	423
503685	Lanthanum standard solution	423
503687	Lanthanum standard solution	423
503691	Lithium standard solution	431
503693	Lithium standard solution	431
503695	Lithium standard solution	431
503697	Lithium standard solution	431
503711	Magnesium standard solution	437
503713	Magnesium standard solution	437
503715	Magnesium standard solution	437
503717	Magnesium standard solution	437
503718	Magnesium standard solution	437
503719	Magnesium standard solution	437
503721	Manganese standard solution	447
503723	Manganese standard solution	447
503725	Manganese standard solution	447
503727	Manganese standard solution	447
503731	Molybdenum standard solution	476
503733	Molybdenum standard solution	476
503735	Molybdenum standard solution	476
503737	Molybdenum standard solution	476
503741	Sodium standard solution	609
503743	Sodium standard solution	609
503745	Sodium standard solution	609
503747	Sodium standard solution	609
503749	Sodium standard solution	609
503751	Niobium standard solution	490
503753	Niobium standard solution	490
503755	Niobium standard solution	490
503757	Niobium standard solution	490
503761	Neodymium standard solution	484
503763	Neodymium standard solution	484
503765	Neodymium standard solution	484
503767	Neodymium standard solution	484
503771	Nickel standard solution	485
503773	Nickel standard solution	485
503775	Nickel standard solution	485
503777	Nickel standard solution	485
503791	Phosphorus standard solution	531
503793	Phosphorus standard solution	531
503795	Phosphorus standard solution	531
503797	Phosphorus standard solution	531
503801	Lead standard solution	425
503803	Lead standard solution	425
503805	Lead standard solution	425
503807	Lead standard solution	425
503811	Palladium standard solution	508
503813	Palladium standard solution	508
503815	Palladium standard solution	508
503817	Palladium standard solution	508
503821	Praseodymium standard solution	571
503823	Praseodymium standard solution	571
503825	Praseodymium standard solution	571
503827	Praseodymium standard solution	571
503831	Platinum standard solution	534
503833	Platinum standard solution	534
503835	Platinum standard solution	534
503837	Platinum standard solution	534
503841	Rubidium standard solution	590
503843	Rubidium standard solution	590
503845	Rubidium standard solution	590
503847	Rubidium standard solution	590
503861	Rhodium standard solution	588
503863	Rhodium standard solution	588
503865	Rhodium standard solution	588
503867	Rhodium standard solution	588
503871	Ruthenium standard solution	591
503873	Ruthenium standard solution	591
503875	Ruthenium standard solution	591
503877	Ruthenium standard solution	591
503891	Antimony standard solution	169
503893	Antimony standard solution	169
503895	Antimony standard solution	169
503897	Antimony standard solution	169
503898	Antimony standard solution	169
503899	Antimony standard solution	169
503901	Scandium standard solution	595
503903	Scandium standard solution	595
503905	Scandium standard solution	595
503907	Scandium standard solution	595
503911	Selenium standard solution	596
503913	Selenium standard solution	596
503915	Selenium standard solution	596
503917	Selenium standard solution	596
503921	Silicon standard solution	600
503923	Silicon standard solution	600
503925	Silicon standard solution	600
503927	Silicon standard solution	600
503931	Samarium standard solution	593
503933	Samarium standard solution	593
503935	Samarium standard solution	593
503937	Samarium standard solution	593
503941	Tin standard solution	702
503943	Tin standard solution	702
503945	Tin standard solution	702
503947	Tin standard solution	702
503949	Tin standard solution	702
503951	Strontium standard solution	667
503953	Strontium standard solution	667
503955	Strontium standard solution	667
503957	Strontium standard solution	667
503961	Tantalum standard solution	688
503963	Tantalum standard solution	688
503965	Tantalum standard solution	688
503967	Tantalum standard solution	688
503971	Terbium standard solution	690
503973	Terbium standard solution	690
503975	Terbium standard solution	690
503977	Terbium standard solution	690
503981	Tellurium standard solution	690
503983	Tellurium standard solution	690
503985	Tellurium standard solution	690
503987	Tellurium standard solution	690
504001	Titanium standard solution	705
504003	Titanium standard solution	705
504005	Titanium standard solution	705
504007	Titanium standard solution	705
504011	Thallium standard solution	697
504013	Thallium standard solution	697
504015	Thallium standard solution	697
504017	Thallium standard solution	697
504031	Uranium standard solution	724
504033	Uranium standard solution	724
504035	Uranium standard solution	724
504037	Uranium standard solution	724
504041	Vanadium standard solution	725
504043	Vanadium standard solution	725
504045	Vanadium standard solution	725
504047	Vanadium standard solution	725
504051	Tungsten standard solution	723
504053	Tungsten standard solution	723
504055	Tungsten standard solution	723
504057	Tungsten standard solution	723
504058	Tungsten standard solution	723
504061	Yttrium standard solution	735
504063	Yttrium standard solution	735
504065	Yttrium standard solution	735
504067	Yttrium standard solution	735
504071	Ytterbium standard solution	735
504073	Ytterbium standard solution	735
504075	Ytterbium standard solution	735
504077	Ytterbium standard solution	735
504081	Zinc standard solution	737
504083	Zinc standard solution	737
504085	Zinc standard solution	737
504087	Zinc standard solution	737
504091	Zirconium standard solution	745
504093	Zirconium standard solution	745
504095	Zirconium standard solution	745
504097	Zirconium standard solution	745
504186	Aluminum standard solution	139
504187	Vanadium standard solution	725
504190	Aluminum standard solution	139
504194	Iron standard solution	401
504195	Chromium standard solution	251
504221	Hafnium standard solution	355
504223	Hafnium standard solution	355
504225	Hafnium standard solution	355
504227	Hafnium standard solution	355
504231	Dysprosium standard solution	305
504233	Dysprosium standard solution	305
504235	Dysprosium standard solution	305
504237	Dysprosium standard solution	305
504241	Erbium standard solution	309
504243	Erbium standard solution	309
504245	Erbium standard solution	309
504247	Erbium standard solution	309
504251	Germanium standard solution	347
504253	Germanium standard solution	347
504255	Germanium standard solution	347
504257	Germanium standard solution	347
504261	Holmium standard solution	367
504263	Holmium standard solution	367
504265	Holmium standard solution	367
504267	Holmium standard solution	367
504271	Silicon standard solution	600
504273	Silicon standard solution	600
504275	Silicon standard solution	600
504277	Silicon standard solution	600
504281	Thorium standard solution	699
504283	Thorium standard solution	699
504291	Sulfur standard solution	675
504293	Sulfur standard solution	675
504295	Sulfur standard solution	675
504297	Sulfur standard solution	675
504301	Multielement standard for ICP	479
504303	Multielement standard for ICP	479
504305	Multielement standard for ICP	479

504306	Multielement standard for ICP	479
504307	Multielement standard for ICP	479
504308	Multielement standard for ICP	479
504309	Multielement standard for ICP	479
504310	Multielement standard for ICP	479
504311	Multielement standard for ICP	479
504312	Multielement standard for ICP	479
504313	Multielement standard for ICP	479
504350	Multielement standard for ICP	478
504351	Multielement standard for ICP	478
504352	Multielement standard for ICP and ICP-MS	479
504353	Multielement standard for ICP	478
504354	Multielement standard for ICP	478
504355	Multielement standard for ICP	478
504356	Multielement standard for ICP	478
504357	Multielement standard for ICP	478
504360	Cadmium standard solution	219
504361	Copper standard solution	260
504362	Manganese standard solution	447
504363	Nickel standard solution	486
504364	Lead standard solution	426
504370	Mercury standard solution	452
504392	Multielement standard for ICP and ICP-MS	479
504393	Multielement standard for ICP and ICP-MS	479
504396	Multielement standard for ICP	478
504439	Arsenic standard solution	172
504526	Multianions standard for ion chromatography	477
504527	Multianions standard for ion chromatography	477
504530	Eluent sodium carbonate/sodium bicarbonate	307
504531	Eluent sodium carbonate/sodium bicarbonate	307
504532	Eluent sodium carbonate/sodium bicarbonate	307
504533	Eluent sodium carbonate	307
504534	Eluent sodium bicarbonate	307
504536	Cesium chloride 25 g/l solution	240
504537	Lanthanum chloride 25 g/L solution	424
504538	Potassium chloride 25g/l in HCl	540
504545	Copper standard solution	260
504550	Water deionized and acidified	730
504551	Water deionized and acidified	730
504552	Water deionized and acidified	730
504553	Water deionized and acidified	730
504554	Water deionized and acidified	730
504557	Water deionized and acidified	730
504582	Potassium dichromate 0.2829 g/l	546
504594	Potassium dichromate 0.1414 g/l	546
504901	Lead standard solution	425
504902	Lead standard solution	425
505008	Calcium carbonate	223
505009	Calcium carbonate	223
505012	Calcium carbonate	223
505021	Nital solution 4%	490
505302	Silver standard solution	601
505303	Silver standard solution	601
505305	Silver standard solution	601
505307	Aluminum standard solution	138
505308	Aluminum standard solution	138
505309	Aluminum standard solution	138
505312	Arsenic standard solution	171
505313	Arsenic standard solution	171
505315	Arsenic standard solution	171
505317	Gold standard solution	352
505318	Gold standard solution	352
505319	Gold standard solution	352
505322	Boron standard solution	195
505323	Boron standard solution	195
505325	Boron standard solution	195
505327	Barium standard solution	178
505328	Barium standard solution	178
505329	Barium standard solution	178
505332	Beryllium standard solution	189
505333	Beryllium standard solution	189
505335	Beryllium standard solution	189
505337	Bismuth standard solution	191
505338	Bismuth standard solution	191
505339	Bismuth standard solution	191
505542	Calcium standard solution	221
505543	Calcium standard solution	221
505545	Calcium standard solution	221
505547	Cadmium standard solution	219
505548	Cadmium standard solution	219
505549	Cadmium standard solution	219
505552	Cerium standard solution	236
505555	Cerium standard solution	236
505562	Cobalt standard solution	256
505563	Cobalt standard solution	256
505565	Cobalt standard solution	256
505567	Chromium standard solution	251
505568	Chromium standard solution	251
505569	Chromium standard solution	251
505572	Cesium standard solution	239
505575	Cesium standard solution	239
505577	Copper standard solution	260
505578	Copper standard solution	260
505579	Copper standard solution	260
505582	Dysprosium standard solution	305
505585	Dysprosium standard solution	305
505592	Erbium standard solution	309
505595	Erbium standard solution	309
505602	Europium standard solution	330
505605	Europium standard solution	330
505612	Iron standard solution	400
505613	Iron standard solution	400
505615	Iron standard solution	400
505617	Gallium standard solution	345
505618	Gallium standard solution	345
505619	Gallium standard solution	345
505622	Gadolinium standard solution	344
505625	Gadolinium standard solution	344
505632	Germanium standard solution	347
505633	Germanium standard solution	347
505635	Germanium standard solution	347
505642	Hafnium standard solution	355
505645	Hafnium standard solution	355
505652	Mercury standard solution	451
505654	Mercury standard solution	451
505655	Mercury standard solution	451
505657	Holmium standard solution	367
505658	Holmium standard solution	367
505662	Indium standard solution	395
505663	Indium standard solution	395
505665	Indium standard solution	395
505672	Iridium standard solution	400
505675	Iridium standard solution	400
505682	Potassium standard solution	536
505683	Potassium standard solution	536
505685	Potassium standard solution	536
505692	Lanthanum standard solution	423
505693	Lanthanum standard solution	423
505695	Lanthanum standard solution	423
505702	Lithium standard solution	431
505703	Lithium standard solution	431
505705	Lithium standard solution	431
505707	Lutetium standard solution	436
505708	Lutetium standard solution	436
505709	Lutetium standard solution	436
505712	Magnesium standard solution	437
505713	Magnesium standard solution	437
505715	Magnesium standard solution	437
505717	Manganese standard solution	447
505718	Manganese standard solution	447
505719	Manganese standard solution	447
505722	Molybdenum standard solution	475
505723	Molybdenum standard solution	475
505725	Molybdenum standard solution	475
505732	Sodium standard solution	609
505733	Sodium standard solution	609
505735	Sodium standard solution	609
505737	Niobium standard solution	490
505738	Niobium standard solution	490
505742	Neodymium standard solution	483
505745	Neodymium standard solution	483
505752	Nickel standard solution	485
505753	Nickel standard solution	485
505755	Nickel standard solution	485
505758	Osmium standard solution	505
505762	Phosphorus standard solution	531
505763	Phosphorus standard solution	531
505765	Phosphorus standard solution	531
505767	Lead standard solution	425
505768	Lead standard solution	425
505769	Lead standard solution	425
505772	Palladium standard solution	508
505775	Palladium standard solution	508
505782	Praseodymium standard solution	571
505785	Praseodymium standard solution	571
505787	Platinum standard solution	534
505788	Platinum standard solution	534
505789	Platinum standard solution	534
505792	Rubidium standard solution	590
505795	Rubidium standard solution	590
505802	Rhenium standard solution	588
505805	Rhenium standard solution	588
505807	Rhodium standard solution	588
505808	Rhodium standard solution	588
505809	Rhodium standard solution	588
505812	Ruthenium standard solution	591
505815	Ruthenium standard solution	591
505822	Sulfur standard solution	674
505823	Sulfur standard solution	674
505825	Sulfur standard solution	674
505832	Antimony standard solution	169
505833	Antimony standard solution	169
505835	Antimony standard solution	169
505837	Scandium standard solution	594
505838	Scandium standard solution	594
505839	Scandium standard solution	594
505842	Selenium standard solution	596
505843	Selenium standard solution	596
505845	Selenium standard solution	596
505847	Silicon standard solution	600
505848	Silicon standard solution	600
505852	Samarium standard solution	593
505855	Samarium standard solution	593
505862	Tin standard solution	702
505863	Tin standard solution	702
505865	Tin standard solution	702
505867	Strontium standard solution	667
505868	Strontium standard solution	667
505869	Strontium standard solution	667
505872	Tantalum standard solution	687
505875	Tantalum standard solution	687
505882	Terbium standard solution	690
505883	Terbium standard solution	690
505885	Terbium standard solution	690
505887	Tellurium standard solution	690
505888	Tellurium standard solution	690
505907	Titanium standard solution	705
505908	Titanium standard solution	705
505909	Titanium standard solution	705
505912	Thallium standard solution	696
505913	Thallium standard solution	696
505915	Thallium standard solution	696
505917	Thulium standard solution	699
505918	Thulium standard solution	699

505922	Uranium standard solution	724
505923	Uranium standard solution	724
505927	Vanadium standard solution	725
505928	Vanadium standard solution	725
505929	Vanadium standard solution	725
505932	Tungsten standard solution	722
505935	Tungsten standard solution	722
505942	Yttrium standard solution	735
505943	Yttrium standard solution	735
505945	Yttrium standard solution	735
505947	Ytterbium standard solution	735
505948	Ytterbium standard solution	735
505952	Zinc standard solution	737
505953	Zinc standard solution	737
505955	Zinc standard solution	737
505957	Zirconium standard solution	745
505958	Zirconium standard solution	745
506002	Standard Mixture for hydrocarbon analysis	660
506010	Standard Mixture for hydrocarbon analysis	660
506011	Standard Mixture for hydrocarbon analysis	660
506020	Standard Mixture for hydrocarbon analysis	660
506030	Standard Mixture for hydrocarbon analysis	660
506040	Standard Mixture for hydrocarbon analysis	660
506110	Multielement standard for ICP	478
506120	Multielement standard for ICP	478
506130	Multielement standard for ICP	478
506140	Multielement standard for ICP	478
506150	Multielement standard for ICP	478
506401	Sulfuric acid 0.0025 mol/l (0.005N)	685
506411	Water	729
506421	n-Hexane 99%	362
506432	Potassium chloride 12g/l	541
506433	Potassium chloride 12g/l	541
506442	Potassium dichromate - Sulfuric acid solution	545
506443	Potassium dichromate - Sulfuric acid solution	545
506452	Potassium dichromate - Sulfuric acid solution	545
506453	Potassium dichromate - Sulfuric acid solution	545
506462	Toluene in solution in hexane	709
506463	Toluene in solution in hexane	709
506472	Holmium perchlorate in solution	368
506473	Holmium perchlorate in solution	368
506918	Mercury standard solution	451
506941	Beryllium standard solution	190
506960	Potassium standard solution	536
507039	Magnesium standard solution	437
507393	Iron standard solution	401
507476	Calcium standard solution	222
507477	Zinc standard solution	738
507478	Copper standard solution	260
507479	Antimony standard solution	169
507480	Silver standard solution	602
507481	Barium standard solution	178
507482	Bismuth standard solution	191
507484	Cobalt standard solution	257
507485	Chromium standard solution	251
507486	Lithium standard solution	431
507487	Nickel standard solution	485
507488	Manganese standard solution	447
507489	Mercury standard solution	452
507491	Selenium standard solution	596
507492	Tin standard solution	702
507493	Strontium standard solution	668
507494	Molybdenum standard solution	476
507496	Arsenic standard solution	172
507497	Beryllium standard solution	190
507498	Cerium standard solution	237
507499	Cesium standard solution	240
507500	Dysprosium standard solution	306
507501	Erbium standard solution	309
507502	Europium standard solution	330
507503	Gallium standard solution	345
507504	Gadolinium standard solution	344
507505	Germanium standard solution	347
507506	Hafnium standard solution	355
507507	Holmium standard solution	368
507508	Indium standard solution	395
507509	Lanthanum standard solution	423
507510	Neodymium standard solution	484
507511	Niobium standard solution	490
507512	Palladium standard solution	508
507513	Rhenium standard solution	588
507514	Rubidium standard solution	590
507515	Samarium standard solution	593
507516	Scandium standard solution	595
507517	Tantalum standard solution	688
507518	Tellurium standard solution	690
507519	Thulium standard solution	699
507520	Titanium standard solution	706
507521	Tungsten standard solution	723
507522	Yttrium standard solution	736
507523	Ytterbium standard solution	735
507524	Zirconium standard solution	745
507525	Antimony standard solution	169
507526	Silver standard solution	602
507527	Barium standard solution	178
507528	Bismuth standard solution	191
507530	Calcium standard solution	222
507531	Cerium standard solution	237
507532	Cesium standard solution	240
507533	Cobalt standard solution	257
507577	Eluent sodium carbonate	307
507578	Eluent sodium bicarbonate	307
507688	Mixtures for residual solvents analysis	474
507689	Mixtures for residual solvents analysis	474
507690	Mixtures for residual solvents analysis	474
507691	Mixtures for residual solvents analysis	474
507692	Mixtures for residual solvents analysis	474
507693	Mixtures for residual solvents analysis	474
507694	Mixtures for residual solvents analysis	474
507695	Eluent sodium carbonate	307
507734	Dysprosium standard solution	306
507735	Erbium standard solution	309
507736	Europium standard solution	330
507737	Gadolinium standard solution	344
507739	Gallium standard solution	345
507740	Germanium standard solution	347
507741	Hafnium standard solution	355
507742	Holmium standard solution	368
507743	Indium standard solution	395
507744	Lanthanum standard solution	423
507745	Lithium standard solution	431
507746	Manganese standard solution	447
507747	Molybdenum standard solution	476
507748	Neodymium standard solution	484
507749	Nickel standard solution	485
507750	Niobium standard solution	490
507751	Palladium standard solution	508
507753	Potassium standard solution	536
507754	Rhenium standard solution	588
507755	Rubidium standard solution	590
507756	Samarium standard solution	593
507757	Scandium standard solution	595
507758	Selenium standard solution	596
507759	Sodium standard solution	609
507760	Strontium standard solution	668
507761	Tantalum standard solution	688
507762	Tellurium standard solution	690
507763	Thulium standard solution	699
507764	Titanium standard solution	706
507765	Tungsten standard solution	723
507766	Vanadium standard solution	725
507767	Yttrium standard solution	736
507768	Ytterbium standard solution	735
507769	Zinc standard solution	738
507770	Zirconium standard solution	745
508001	Dimethylsulphoxide	299
508002	Dimethylsulphoxide	299
508200	Acetone	128
508201	Acetone	128
508212	n-Heptane	358
508215	n-Heptane	358
508216	n-Heptane	358
508217	n-Heptane	358
508221	Ethyl acetate	322
508222	Ethyl acetate	322
508230	Petroleum ether 100 - 140°C	518
508232	Petroleum ether 100 - 140°C	518
508235	Cyclohexane	270
508320	Chloroform	248
508321	Chloroform	248
508322	Chloroform	248
508370	Dichloromethane	285
508374	Dichloromethane	285
508615	Sodium hydroxide solution 10% w/v	630
508645	Acetic acid 27%	122
508801	n,n-Dimethylformamide	297
508802	n,n-Dimethylformamide	297
508803	n,n-Dimethylformamide	297
508835	Fixative Bouin liquid	333
508840	Fixative AFA liquid	332
508850	Formaldehyde 10% v/v according to Lillie	338
508851	Formaldehyde 10% v/v according to Lillie	338
508853	Formaldehyde 10% v/v according to Lillie	338
508859	Formaldehyde 4% w/v buffered at pH 6.9	339
508861	Formaldehyde 4% w/v buffered at pH 6.9	339
508862	Formaldehyde 4% w/v buffered at pH 6.9	339
508863	Formaldehyde 4% w/v buffered at pH 6.9	339
508871	Formaldehyde acetic	340
508872	Formaldehyde acetic	340
508873	Formaldehyde acetic	340
508874	Formaldehyde acetic	340
508881	Fixative Davidson liquid	333
508882	Fixative Davidson liquid	333
508883	Fixative Davidson liquid	333
524102	Methanol	458
524103	Methanol	458
524125	Ethanol absolute anhydrous	312
524132	Ethanol 96°	315
524135	Ethanol 96°	315
524161	Propan-2-ol 70%	576
524170	Propan-2-ol	576
524171	Propan-2-ol	576
524181	Propan-2-ol 70%	577
524182	Propan-2-ol 70%	577
524183	Propan-2-ol 70%	577
524184	Propan-2-ol 70%	577
524195	Propan-2-ol 70%	577

524314	Dichloromethane	284
524319	Dichloromethane	284
524381	Heptane mixture of isomers	359
524391	Isopentane	412
524411	Mixture C.H.M.	472
524412	Mixture C.H.M.	472
524501	Sodium hydroxide solution 5% w/v	630
524502	Sodium hydroxide solution 5% w/v	630
524506	Sodium hydroxide solution 10% w/v	630
524507	Sodium hydroxide solution 10% w/v	630
524510	Sodium hydroxide solution 32%	628
524520	Acetic acid glacial	120
524521	Acetic acid glacial	120
524525	Hydrochloric acid 37%	371
524526	Hydrochloric acid 37%	371
524530	Nitric acid 69.5%	492
524531	Nitric acid 69.5%	492
524535	Nitric acid 65%	494
524536	Nitric acid 65%	494
524540	Sulfuric acid 96%	677
524541	Sulfuric acid 96%	677
524543	Sulfuric acid 96%	677
524605	Acetic acid 1 mol/l (1N)	124
524611	Acetic acid 0.03 mol/l (0.03N)	124
524621	Sodium hydroxide 1 mol/l (1N)	634
524631	Sodium hydroxide 0.1 mol/l (N/10)	636
524641	Acetic acid 1 mol/l (1N)	124
524671	Sodium hydroxide 2 mol/l (2N)	633
524692	Sodium hydroxide 0.5 mol/l (N/2)	635
524702	Osmium (VIII) oxide	505
524712	Osmium (VIII) oxide	505
524725	Sodium nitrite solution 500 g/l	643
524732	Sodium hydroxide 3 mol/l (3N)	632
524910	Reagent for lipolysis	585
524912	Reagent for lipolysis	585
524920	Formaldehyde 4% w/v buffered at pH 6.9	339
524930	Formaldehyde 30% w/v	337
524952	Phosphate buffer pH 6.8	529
524965	Phosphate buffer pH 7.4	529
525101	Methanol	456
525102	Methanol	456
525161	Propan-2-ol	574
525320	Dichloromethane	285
525321	Dichloromethane	285
525993	Octane 80 blend	500
526001	Sodium phosphate tribasic dodecahydrate	649
526011	Ethylenediaminetetraacetic acid disodium salt 0.0178 mol/l (N/28)	326
526151	Isopar G	412
526231	Formaldehyde acetic	340
526261	Fixative Bouin liquid	333
526262	Fixative Bouin Duboscq Brazil liquid	332
526263001	Fixative AFA liquid	332
526264	Fixative liquid without acetic acid	334
526267	Fixative AFA liquid	332
526268	Fixative Bouin Hollande liquid	333
526269	Fixative Bouin Hollande liquid	333
526270	Fixative Bouin liquid	333
526271	Fixative Bouin Duboscq Brazil liquid	332
526273	Formaldehyde acetic	340
526274	Fixative FIXALL-HIS liquid	334
526277	Fixative Davidson liquid	333
526321	Fixative AFA liquid	332
526511	Sodium hydroxide 0.7 mol/l (N/1.4)	634
526512	Sodium hydroxide 5 mol/l (5N)	632
526513	Sodium hydroxide 5 mol/l (5N)	632
526521	Sodium hydroxide solution 32%	628
526531	Hydrochloric acid 0.714 mol/l (N/1.4)	379
526533	Hydrochloric acid 0.0714 mol/l (N/14)	382
526535	Hydrochloric acid 0.2 mol/l (0.2N) in propanol-2	380
526536	Hydrochloric acid 0.1 mol/l (0.1N) in propanol-2	382
526537	Hydrochloric acid 0.02 mol/l (0.02N)	382
526545	Acetic acid 45%	122
526546	Acetic acid 45%	122
526602	Sulfuric acid with 6.6 g/l Ag2SO4	685
526605	Sulfuric acid with 10 g/L Ag2SO4	685
526606	Sulfuric acid with 10 g/L Ag2SO4	685
526623	ADF Solution	134
526625	ADF Solution	134
526632	Sodium hydroxide solution 5% w/v	630
526634	Sodium hydroxide solution 5% w/v	630
526641	Sodium hydroxide solution 10% w/v	630
526642	Sodium hydroxide solution 10% w/v	630
526711	Potassium dichromate 0.04 mol/l (0.24N) in 80 g/l HgSO4	545
526712	Potassium dichromate 0.04 mol/l (0.24N) in 80 g/l HgSO4	545
526741	Sulfuric acid 4 mol/l (8N)	680
526751	Ferroin 0.025 mol/l solution	332
526761	Iron (II) ammonium sulfate 0.12N	404
526911	Formaldehyde 10% v/v according to Lillie	338
526912	Formaldehyde 10% v/v according to Lillie	338
526920	NDF Solution	482
526921	NDF Solution	482
526931	Formaldehyde 4% w/v buffered at pH 6.9	339
526933	Formaldehyde 4% w/v buffered at pH 6.9	339
526934	Formaldehyde 4% w/v with sodium chloride	339
526935	Formaldehyde 30% w/w with sodium chloride	338
526936	Formaldehyde 4% w/v buffered at pH 6.9	339
526937	Formaldehyde 4% w/v buffered at pH 6.9	339
526941	NDF Plus solution	483
527591	Orthophosphoric acid 85%	503
527592	Orthophosphoric acid 85%	503
527600	Hydrochloric acid 37%	370
527601	Hydrochloric acid 37%	370
527620	Hydrogen peroxide solution 30%	387
527621	Hydrogen peroxide solution 30%	387
527630	Sulfuric acid 96%	675
527631	Sulfuric acid 96%	675
527640	Methanol	457
527641	Methanol	457
527650	Acetone	127
527651	Acetone	127
527655	Acetone	127
527670	Nitric acid 69.5%	491
527671	Nitric acid 69.5%	491
527680	Ethanol absolute anhydrous	311
527681	Ethanol absolute anhydrous	311
527690	Propan-2-ol	575
527691	Propan-2-ol	575
527696	Propan-2-ol	575
528031	Ethanol absolute denaturated	317
528032	Ethanol absolute denaturated	317
528033	Ethanol absolute denaturated	317
528034	Ethanol absolute denaturated	317
528035	Ethanol absolute denaturated	317
528036	Ethanol absolute denaturated	317
528070	Petroleum ether 35 - 60°C	522
528071	Petroleum ether 35 - 60°C	522
528101	Methanol	458
528131	Ethanol absolute anhydrous	313
528151	Ethanol 96°	315
528152	Ethanol 96°	315
528153	Ethanol 96°	315
528154	Ethanol 96°	315
528170	Ethanol 70 % v/v	316
528181	Ethanol 95° denaturated	317
528182	Ethanol 95° denaturated	317
528183	Ethanol 95° denaturated	317
528184	Ethanol 95° denaturated	317
528185	Ethanol 95° denaturated	317
528191	Ethanol 70°modified	318
528192	Ethanol 70°modified	318
528201	Acetone	128
528203	Acetone	128
528204	Acetone	128
528206	Acetone	128
528215	Cyclohexane	270
528216	Cyclohexane	270
528217	Cyclohexane	270
528220	n,n-Dimethylformamide	297
528221	n,n-Dimethylformamide	297
528224	n-Heptane 99%	358
528225	n-Heptane 99%	358
528226	n-Heptane 99%	358
528228	n-Heptane 99%	358
528231	Toluene	709
528232	Toluene	709
528233	Toluene	709
528245	Heptane mixture of isomers	359
528246	Heptane mixture of isomers	359
528247	Heptane mixture of isomers	359
528251	Xylene, mix of isomers	732
528252	Xylene, mix of isomers	732
528257	Pyridine	581
528260	Methylcyclohexane	464
528261	Methylcyclohexane	464
528262	Methylcyclohexane	464
528264	Methylcyclohexane	464
528275	Diethyl ether	291
528276	Diethyl ether	291
528280	Petroleum ether 35 - 60°C	522
528281	Petroleum ether 35 - 60°C	522
528282	Petroleum ether 35 - 60°C	522
528283	Petroleum ether 40 - 60°C	521
528294	Ethyl acetate	322
528295	Ethyl acetate	322
528296	Ethyl acetate	322
528297	Ethyl acetate	322
528299	Ethyl acetate	322
528300	Butanol-1	213
528301	Butanol-1	213
528325	Chloroform	248
528326	Chloroform	248
528327	Chloroform	248
528328	Chloroform	248
528329	Chloroform	248
528332	Cyclohexanone	271
528335	Dimethylsulphoxide	299
528340	n-Methyl-2-pyrrolidone	468

528341	n-Methyl-2-pyrrolidone	468
528343	n-Methyl-2-pyrrolidone	468
528346	n-Methyl-2-pyrrolidone	468
528370	Dichloromethane	285
528371	Dichloromethane	285
528372	Dichloromethane	285
528377	Dichloromethane	285
528379	Dichloromethane	285
528461	Dichloromethane	285
528462	Dichloromethane	285
528463	Dichloromethane	285
528464	Dichloromethane	285
528481	Tetrahydrofuran	695
528491	Isopentane	413
528492	Isopentane	413
528501	Ammonia solution 32%	147
528503	Ammonia solution 32%	147
528525	Hydrochloric acid 37%	371
528530	Nitric acid 67.5% (42Be)	493
528535	Orthophosphoric acid 85%	504
528541	Sulfuric acid 50%	679
528550000	Hydrochloric acid 6 mol/l (6N)	376
528571	Hydrochloric acid 0.1 mol/l (0.1N)	381
528573	Hydrochloric acid 0.1 mol/l (0.1N)	381
528582	Hydrochloric acid 1 mol/l (1N)	379
528583	Hydrochloric acid 1 mol/l (1N)	379
528584	Hydrochloric acid 1 mol/l (1N)	379
528651	Hydrochloric acid 6 mol/l (6N)	376
528661	Hydrochloric acid 0.1 mol/l (0.1N)	381
528662	Hydrochloric acid 0.1 mol/l (0.1N)	381
528671	Hydrochloric acid 1 mol/l (1N)	379
528672	Hydrochloric acid 1 mol/l (1N)	379
528673	Hydrochloric acid 1 mol/l (1N)	379
528681	Hydrochloric acid 4 mol/l (4N)	377
528691	Hydrochloric acid 2 mol/l (2N)	378
528731	Hydrochloric acid 5 mol/l (5N)	377
528940	Hexane mixture of isomers	365
528941	Hexane mixture of isomers	365
528942	Hexane mixture of isomers	365
528950	n-Hexane 99%	362
528951	n-Hexane 99%	362
528952	n-Hexane 99%	362
528960	Isooctane	412
528961	Isooctane	412
528962	Isooctane	412
528963	Isooctane	412
528970	tert-Butylmethylether	217
528971	tert-Butylmethylether	217
528974	tert-Butylmethylether	217
528975	Ethyl methyl ketone	329
528976	Ethyl methyl ketone	329
528977	Ethyl methyl ketone	329
528979	tert-Butylmethylether	217
528980	Methyl isobutyl ketone	466
528981	Methyl isobutyl ketone	466
528993	n-Pentane 99%	512
528994	n-Pentane 99%	512
528995	n-Pentane 99%	512
528996	n-Pentane 99%	512
528997	n-Pentane 99%	512
529021	2-Phenylethanol	527
529022	2-Phenylethanol	527
529091	Propan-2-ol	576
529092	Propan-2-ol	576
529093	Propan-2-ol	576
529100	Methanol	458
529121	Ethanol absolute anhydrous	313
529122	Ethanol absolute anhydrous	313
529124	Ethanol absolute anhydrous	313
529125	Ethanol absolute anhydrous	313
529141	Ethanol 96°	315
529152	Ethanol 96°	315
529165	Propan-2-ol	576
529174	Propan-2-ol	576
529180	Ethanol 60 % v/v	316
529183	Ethanol 70 % v/v	315
529184	Ethanol 70 % v/v	316
529186	Ethanol 70 % v/v	316
529187	Ethanol 70 % v/v	315
529189	Ethanol 70 % v/v	315
529221	Ethyl acetate	322
529222	Ethyl acetate	322
529261	Ethanol 50% v/v	316
529301	Chloroform	248
529311	Mix Diethyl ether / Ethanol absolute 50/50 (w/w)	473
529381	Mix Diethyl Ether / Ethanol 50/50 (v/v)	473
540001	Melting point standards	472
540002	Melting point standards	472
540003	Melting point standards	472
540004	Melting point standards	472
540005	Melting point standards	472
540006	Melting point standards	472
540007	Melting point standards	472
540008	Melting point standards	472
540009	Melting point standards	472
540010	Melting point standards	472
540011	Melting point standards	472
540012	Melting point standards	472
540013	Melting point standards	472
540014	Melting point standards	472
540101	Refractive Index standards	587
540102	Refractive Index standards	587
540103	Refractive Index standards	587
540104	Refractive Index standards	587
540105	Refractive Index standards	587
540106	Refractive Index standards	587
540107	Refractive Index standards	587
540108	Refractive Index standards	587
540201	Brix Standards	197
540202	Brix Standards	197
540203	Brix Standards	197
540204	Brix Standards	197
540205	Brix Standards	197
540206	Brix Standards	197
540207	Brix Standards	197
540208	Brix Standards	197
540209	Brix Standards	197
540210	Brix Standards	197
540220	Brix Standards	197
540221	Brix Standards	197
540222	Brix Standards	197
540223	Brix Standards	197
540224	Brix Standards	197
540225	Brix Standards	197
540301	Osmolality Standards	505
540302	Osmolality Standards	505
540303	Osmolality Standards	505
540304	Osmolality Standards	505
540305	Osmolality Standards	505
540306	Osmolality Standards	505
540307	Osmolality Standards	505
540308	Osmolality Standards	505
540309	Osmolality Standards	505
540310	Osmolality Standards	505
540351	Osmolality Standards Protein Based	505
540352	Osmolality Standards Protein Based	505
540353	Osmolality Standards Protein Based	505
540354	Osmolality Standards Urine Based	506
540355	Osmolality Standards Urine Based	506
540401	Density Standard	274
540402	Density Standard	274
540403	Density Standard	274
540404	Density Standard	274
540405	Density Standard	274
540406	Density Standard	274
540407	Density Standard	274
540408	Density Standard	274
540409	Density Standard	274
540410	Density Standard	274
540411	Density Standard	274
540412	Density Standard	274
540413	Density Standard	274
540414	Density Standard	274
540415	Density Standard	274
540416	Density Standard	274
540417	Density Standard	274
540418	Density Standard	274
540420	Density Standard	274
540421	Density Standard	274
540422	Density Standard	274
540451	Density Standard	275
540452	Density Standard	275
540453	Density Standard	275
540454	Density Standard	275
540455	Density Standard	275
540456	Density Standard	275
540457	Density Standard	275
540458	Density Standard	275
540459	Density Standard	275
540460	Density Standard	275
540461	Density Standard	275
540462	Density Standard	275
540463	Density Standard	275
540464	Density Standard	275
540465	Density Standard	275
540470	Density Standard	275
540471	Density Standard	275
540472	Density Standard	275
540473	Density Standard	275
540566	Density Standard	275
540567	Density Standard	275
540568	Density Standard	275
540569	Density Standard	275
540601	ASTM colour standards	173
540602	ASTM colour standards	173
540603	ASTM colour standards	173
540604	ASTM colour standards	173
540701	Gardner Colour Standards	346
540702	Gardner Colour Standards	346
540703	Gardner Colour Standards	346
540704	Gardner Colour Standards	346
540705	Gardner Colour Standards	346
540706	Gardner Colour Standards	346
540707	Gardner Colour Standards	346
540708	Gardner Colour Standards	346
540709	Saybolt Colour Standards	594
540710	Saybolt Colour Standards	594
540711	Saybolt Colour Standards	594
540712	Saybolt Colour Standards	594
540713	Saybolt Colour Standards	594
540714	Saybolt Colour Standards	594
540715	Saybolt Colour Standards	594
540801	Viscosity standards	727
540802	Viscosity standards	727
540803	Viscosity standards	727
540804	Viscosity standards	727
540805	Viscosity standards	727
540806	Viscosity standards	727
540807	Viscosity standards	727
540808	Viscosity standards	727
540809	Viscosity standards	727
540810	Viscosity standards	727
540811	Viscosity standards	727
554192	Eukitt	330
554193	Eukitt	330

554194	Eukitt	330
570011	Karl Fischer reagent 1 component 5 mg H2O/ml	416
570021	Karl Fischer reagent 1 component 2 mg H2O/ml	416
570031	Karl Fischer solvent for oils one component	417
570041	Karl Fischer solvent for aldehydes and ketones one component	417
570051	Karl Fischer titrant 2 component 5 mg H2O/ml - non hygroscopic	418
570061	Karl Fischer titrant 2 component 2 mg H2O/ml - non hygroscopic	418
570071	Karl Fischer solvent 2 component	417
570081	Karl Fischer titrant 2 component 5 mg H2O/ml	417
570091	Karl Fischer solvent 2 component for aldehydes and ketones - Methanol free	417
570101	Karl Fischer solvent for oils 2 component	418
570111	Karl Fischer buffer solution	415
570121	Karl Fischer anolyte solution - pyridine free	416
570131	Karl Fischer fritless reagent	415
570141	Karl Fischer anolyte solution - CFC free	415
570151	Karl Fischer anolyte solution, oven	416
570161	Karl Fischer anolyte solution for ketones and aldehydes - Methanol free	415
570171	Karl Fischer anolyte solution for oils	415
570181	Karl Fischer catholyte solution - Pyridine free	416
570191	Karl Fischer catholyte solution	416
570201	Karl Fischer water standard 0.10 mg/g	418
570211	Karl Fischer water standard 1.0 mg/g	418
570221	Karl Fischer water standard 10.0 mg/g	418
570231	Karl Fischer water standard 5.0 mg/ml	419
570241	Karl Fischer reagent 1 component 5 mg H2O/ml	416
570251	Karl Fischer reagent 1 component 2 mg H2O/ml	416
575001	Standard solution 5 µS/cm	661
575011	Standard solution 10 µS/cm	661
575021	Standard solution 20 µS/cm	661
575031	Standard solution 50 µS/cm	661
575041	Standard solution 84 µS/cm	662
575051	Standard solution 100 µS/cm	662
575061	Standard solution 147 µS/cm	662
575071	Standard solution 200 µS/cm	662
575081	Standard solution 500 µS/cm	662
575091	Standard solution 1000 µS/cm	662
575101	Standard solution 1413 µS/cm	663
575111	Standard solution 5000 µS/cm	663
575121	Standard solution 10000 µS/cm	663
575131	Standard solution 12880 µS/cm	663
575141	Standard solution 20000 µS/cm	664
575151	Standard solution 50000 µS/cm	664
575161	Standard solution 100000 µS/cm	664
575171	Standard solution 150000 µS/cm	664
575181	Standard solution 200000 µS/cm	665
575191	Standard solution 300000 µS/cm	665
575201	Standard solution 350000 µS/cm	665
575211	Standard solution 450000 µS/cm	665
575221	Standard solution 500000 µS/cm	666
575231	Standard solution 1.30 µS/cm	660
611000401	Acetic acid 30%	122
611000402	Acetic acid 12%	123
611000501	Acetic anhydride	125
611002501	Ethanol 96°	314
611003701	Aminohippuric acid reagent	145
611004701	Ammonia solution 17%	150
611004702	Ammonia solution diluted	151
611004703	Ammonia solution diluted	151
611005201	Ammonium carbonate solution 158 g/l	155
611005703	Ammonium molybdate solution	160
611007301	Anisaldehyde solution	167
611007302	Anisaldehyde solution	167
611007701	Antimony trichloride	170
611009301	Barium chloride solution 61 g/l	181
611009303	Barium chloride solution 61 g/l	181
611009309	Barium chloride solution 61 g/l	181
611009401	Barium hydroxide solution 47.3 g/l	182
611009409	Barium hydroxide solution 47.3 g/l	182
611011601	Biuret reagent	193
611012401	Bromine solution	198
611012402	Bromine water	198
611012409	Bromine water	198
611012601	Bromocresol green solution	199
611012602	Bromocresol green - Methyl red solution	199
611012701	Bromocresol purple solution	200
611012801	Bromophenol blue solution	201
611012802	Bromophenol blue solution	201
611012803	Bromophenol blue solution	201
611012901	Bromothymol blue solution	203
611012903	Bromothymol blue solution	203
611015201	Calcium sulfate hemihydrate solution	232
611015202	Calcium sulfate hemihydrate solution	232
611017901	Chloral hydrate	242
611022001	Congo red solution	259
611022501	Copper (II) sulfate solution 12.5%	266
611022600	Ammoniacal solution of copper tetrammine	151
611022901	Crystal violet solution 0.5% in anhydrous acetic acid	268
611023100	Cupri-citric solution	268
611023300	Cupri-tartaric solution	269
611032001	1,4-Dioxane	301
611032002	1,4-Dioxane	301
611032003	1,4-Dioxane	301
611032101	Diphenylamine solution 1% in sulfuric acid	302
611032102	Diphenylamine solution 1% in sulfuric acid	302
611032109	Diphenylamine solution 1% in sulfuric acid	302
611036401	Ethylene oxide solution	328
611036408	Ethylene oxide solution	328
611037702	Iron (III) ammonium sulfate solution 100 g/l	404
611037703	Iron (III) ammonium sulfate solution 100 g/l	404
611038100	Ferroin 0.025 mol/l solution	332
611039101	Formaldehyde 35% w/w	337
611039401	Fuchsin solution decolorised	343
611039402	Fuchsin solution decolorised	343
611043101	Holmium perchlorate in solution	368
611043501	Hydrochloric acid 25% w/v	374
611043503	Hydrochloric acid, dilute	384
611043504	Hydrochloric acid, dilute	384
611043507	Hydrochloric acid, brominated	384
611044301	Hydroxylamine solution, alcoholic	389
611045601	Indigo carmine solution	394
611045901	Iodine bromide solution	399
611046300	Iodoplatinate reagent	399
611046309	Iodoplatinate reagent	399
611048001	Lanthanum nitrate solution 50 g/l	424
611048101	Lead (II) acetate cotton	427
611048102	Lead (II) acetate paper	427
611048103	Lead (II) acetate solution 95 g/l	426
611048301	Lead (II) nitrate solution 33 g/l	428
611048400	Lead (II) acetate basic solution	426
611049301	Litmus paper	434
611050501	Malachite green solution 0.5% in acetic acid anhydrous	444
611052101	Mercuric bromide paper	451
611052201	Mercury chloride solution 54 g/l	453
611052600	Mercury sulfate solution	454
611053203	Methanol, hydrochloric	459
611054801	Methyl orange mixed solution	467
611054802	Methyl Orange solution 0.1%	467
611055101	Methyl red mixed solution	470
611055102	Methyl red solution	469
611055901	Dichloromethane acidified with 1% hydrochloric acid	286
611056700	Molybdovanadic reagent	476
611056801	Eriochrome black T	309
611057601	alpha-Naphtholbenzein solution 0.2% in acetic acid	482
611058301	Ninhydrin and stannous chloride reagent	490
611058304	Ninhydrin solution	489
611058305	Ninhydrin solution	489
611058402	Nitric acid, dilute	496
611058409	Nitric acid, dilute	496
611062201	Pararosaniline solution, decolorised	511
611062901	Perchloric acid solution	517
611063601	Phenol red solution	525
611063603	Phenol red solution	525
611063702	Phenolphthalein solution 0.1%	526
611063703	Phenolphthalein solution 1% in ethanol	526
611064501	Phenylhydrazine hydrochloride solution	528
611065000	Phosphomolybdotungstic reagent	530
611065200	Phosphotungstic acid solution	532
611065801	Picric acid solution	533
611065802	Picric acid solution	533
611069101	Potassium chloride 0.1 mol/l (0.1N)	542
611069201	Potassium chromate 5% solution	543
611069501	Potassium dichromate solution 106 g/l	546
611069502	Potassium dichromate solution 0.5%	546
611069509	Potassium dichromate solution 0.5%	546

611069601	Potassium phosphate monobasic 0.2 mol/l (0.2N)	566
611069801	Potassium ferrocyanide solution 53 g/l	548
611070001	Potassium hydrogen phthalate 0.2 mol/l (0.2N)	551
611070301	Potassium hydroxide 2 mol/l (2N) in ethanol	554
611070302	Potassium hydroxide 0.5 mol/l (0.5N) in ethanol	555
611070303	Potassium hydroxide solution 3% in ethanol	553
611070502	Potassium iodide solution	560
611070504	Potassium iodide solution	560
611070505	Potassium iodide solution	560
611070600	Potassium iodobismuthate solution	560
611070602	Potassium iodobismuthate solution	560
611070901	Potassium permanganate and phosphoric acid solution	564
611070902	Potassium permanganate solution 3%	564
611071302	Potassium pyroantimonate solution	567
611071303	Potassium pyroantimonate solution	567
611071309	Potassium pyroantimonate solution	567
611071600	Potassium tetraiodomercurate solution, alkaline	570
611071801	Potassium thiocyanate solution	571
611075500	Salicylaldehyde azine	592
611078200	Silver manganese paper	604
611078301	Silver nitrate solution	607
611078302	Silver nitrate solution	607
611078306	Silver nitrate solution	607
611078307	Silver nitrate solution	607
611079301	Sodium carbonate solution	618
611081401	Sodium hydroxide solution 20% w/v	629
611081402	Sodium hydroxide solution	631
611081404	Sodium hydroxide solution	631
611081405	Sodium hydroxide solution, methanolic	631
611081600	Sodium hypochlorite solution in water	638
611081609	Sodium hypochlorite solution in water	638
611083901	Sodium sulfide nonahydrate solution	653
611083902	Sodium sulfide nonahydrate solution	653
611085001	Tin (II) chloride solution	703
611085103	Starch soluble solution	667
611085104	Starch soluble solution	667
611086500	Sulfomolybdic reagent	674
611086804	Sulfuric acid, dilute	686
611089602	Thioacetamide solution 40 g/l	697
611089603	Thioacetamide solution 40 g/l	697
611090601	Thymol blue solution	700
611090701	Thymolphtalein solution 0.1% in ethanol	701
611091202	Titanium trichloride-sulfuric acid reagent	707
611094201	Tris(hydroxymethyl)aminomethane solution	720
611095302	Vanillin solution, phosphoric	726
611095501	Water	729
611095506	Water	729
611096501	Zinc, activated	739
611096601	Zinc chloride-formic acid solution	741
611096602	Zinc chloride solution, iodinated	741
611096603	Zinc chloride solution, iodinated	741
611097501	2-Chloroethanol solution	245
611102301	Zinc acetate solution	739
611123001	o-Tolidine solution	707
612000200	Benzoic acid	187
612000300	Potassium bromate	538
612000400	Potassium hydrogen phthalate	550
612000500	Sodium carbonate monohydrate	617
612000600	Sodium chloride	618
612000700	Sulfanilic acid	673
612000800	Zinc standard solution	737
612002100	Primary solutions for degree of coloration of liquids	572
612002200	Primary solutions for degree of coloration of liquids	572
612002300	Primary solutions for degree of coloration of liquids	572
612201100	Primary opalescent suspension	571
612202100	Primary solutions for degree of coloration of liquids	572
612202200	Primary solutions for degree of coloration of liquids	572
612202300	Primary solutions for degree of coloration of liquids	572
612202400	Hydrochloric acid, dilute	383
612202510	Standard solutions for degree of coloration of liquids	666
612202520	Standard solutions for degree of coloration of liquids	666
612202530	Standard solutions for degree of coloration of liquids	666
612202540	Standard solutions for degree of coloration of liquids	666
612202550	Standard solutions for degree of coloration of liquids	666
612203168	Buffer pH 1.68	203
612203401	Buffer pH 4	205
612203687	Buffer pH 6.88	207
612203741	Buffer pH 7.4	208
612203918	Buffer pH 9.22	209
613000100	Cerium (IV) ammonium nitrate 0.1 mol/l	237
613000200	Cerium (IV) ammonium nitrate 0.01 mol/l	237
613000300	Cerium (IV) ammonium sulfate 0.1 mol/l	238
613000301	Cerium (IV) sulfate 0.1 mol/l	239
613000400	Cerium (IV) ammonium sulfate 0.01 mol/l	238
613000500	Ammonium thiocyanate 0.1 mol/l (0.1N)	165
613000501	Ammonium thiocyanate 0.1 mol/l (0.1N)	165
613000600	Barium chloride 0.1 mol/l (0.2N)	181
613000700	Barium perchlorate 0.05 mol/l	183
613000900	Hyamine 1622 solution 0.004M	369
613000901	Hyamine 1622 solution 0.004M	369
613001000	Bromide - bromate 0.0167 mol/l	198
613001100	Cerium (IV) sulfate 0.1 mol/l	239
613001101	Cerium (IV) sulfate 0.1 mol/l	239
613001300	Iron (III) ammonium sulfate 0.1 mol/l	403
613001400	Iron (II) sulfate 0.1mol/l	407
613001500	Hydrochloric acid 6 mol/l (6N)	376
613001700	Hydrochloric acid 2 mol/l (2N)	378
613001800	Hydrochloric acid 1 mol/l (1N)	378
613001801	Hydrochloric acid 1 mol/l (1N)	378
613002100	Hydrochloric acid 0.1 mol/l (0.1N)	381
613002101	Hydrochloric acid 0.1 mol/l (0.1N)	381
613002700	Iodine 0.05 mol/l (0.1N)	398
613002900	Iodine 0.01 mol/l (0.02N)	398
613003100	Lead (II) nitrate 0.1 mol/l	428
613003101	Lead (II) nitrate 0.1 mol/l	428
613003900	Perchloric acid 0.1 mol/l (0.1N)	516
613004000	Perchloric acid 0.05 mol/l (0.05N)	517
613004200	Potassium bromate 0.033 mol/l (0.198N)	538
613004300	Potassium bromate 0.02 mol/l (0.12N)	538
613004600	Potassium dichromate 0.0167 mol/l (0.1 N)	545
613004800	Potassium hydroxide 0.1 mol/l (0.1N)	556
613004900	Potassium hydroxide 0.5 mol/l (0.5N) in ethanol	555
613005100	Potassium hydroxide 0.1 mol/l (0.1N) in ethanol	557
613005200	Potassium iodate 0.05 mol/l	558
613005300	Potassium permanganate 0.02 mol/l (0.1N)	563
613005301	Potassium permanganate 0.02 mol/l (0.1N)	563
613005309	Potassium permanganate 0.02 mol/l (0.1N)	563
613005600	Silver nitrate 0.1 mol/l (0.1N)	605
613005800	Sodium arsenite 0.1 mol/l (0.2N)	612
613005900	Ethylenediaminetetraacetic acid disodium salt 0.1 mol/l (0.2N)	325
613005901	Ethylenediaminetetraacetic acid disodium salt 0.1 mol/l (0.2N)	325
613006300	Sodium hydroxide 1 mol/l (1N)	633
613006301	Sodium hydroxide 1 mol/l (1N)	633
613006600	Sodium hydroxide 0.1 mol/l (N/10)	636
613006601	Sodium hydroxide 0.1 mol/l (N/10)	636
613007000	Sodium hydroxide 0.1 mol/l (0.1N) in ethanol	637
613007001	Sodium hydroxide 0.1 mol/l (0.1N) in ethanol	637
613007100	Sodium methoxide 0.1 mol/l	641
613007101	Sodium methoxide 0.1 mol/l	641
613007200	Sodium nitrite 0.1 mol/l (0.1N)	643
613007300	Sodium thiosulfate 0.1 mol/l (0.1N)	657
613007301	Sodium thiosulfate 0.1 mol/l (0.1N)	657
613007800	Sulfuric acid 0.5 mol/l (1N)	681
613008000	Sulfuric acid 0.05 mol/l (0.1N)	683
613008001	Sulfuric acid 0.05 mol/l (0.1N)	683
613008300	Tetrabutylammonium hydroxide solution 0.1 mol/l (0.1N)	691
613008400	Tetrabutylammonium hydroxide 0.1 mol/l (0.1N) in 2-propanol	691
613008600	Zinc sulfate 0.1 mol/l (0.2N)	743
613008601	Zinc sulfate 0.1 mol/l (0.2N)	743
613008700	Bis(ethylenediamine)copper(II) hydroxide solution 1 mol/l	190
613008800	Hydrochloric acid 0.1 mol/l (0.1N) in ethanol	381
613009100	Potassium hydroxide 1 mol/l (1N)	554
613009400	Iodine 0.5 mol/l (1N)	397
613009600	Barium perchlorate 0.025 mol/l	183
613009601	Barium perchlorate 0.025 mol/l	183
613009700	Lead (II) nitrate 0.05 mol/l	428
613010100	Lanthanum nitrate 0.1 mol/l	424
614000100	Acetone	127
614000200	Buffer pH 2	204
614000500	Phosphate buffer pH 3.0	529
614000501	Phosphate buffer pH 3.0	529
614000600	Buffer pH 3.5	204

614000601	Buffer pH 3.5	204
614000900	Buffer pH 3.7	205
614001400	Acetate buffer pH 4.6	117
614001700	Buffer pH 5.2	206
614002000	Phosphate buffer pH 5.5	529
614002200	Acetate buffer pH 6.0	118
614002400	Phosphate buffer pH 6.0	529
614003400	Phosphate buffer pH 6.8	529
614003500	Buffer pH 7	207
614004600	Buffer pH 7.4	208
614004800	Phosphate buffer pH 7.4	530
614004900	Tris(hydroxymethyl)amino-methane sodium chloride buffer solution pH 7.4	721
614006200	Tris(hydroxymethyl)amino-methane buffer solution pH 8.1	720
614006600	Tris(hydroxymethyl)amino-methane-EDTA buffer solution pH 8.4	720
614007000	Buffer pH 9	209
614007200	Ammonium chloride buffer solution pH 9.5	156
614007300	Ammonium chloride buffer solution pH 10.0	156
614007301	Ammonium chloride buffer solution pH 10.0	156
614007700	Total-ionic-strength-adjust-ment buffer	711
614007900	Phosphate buffer pH 2.0	529
614008300	Phosphate buffer pH 9.0	530
614008800	Total-ionic-strength-adjust-ment buffer	711
614013400	Ammonium chloride buffer solution pH 10.7	156
615000200	Aluminum standard solution	138
615000201	Aluminum standard solution	138
615000202	Aluminum standard solution	138
615000203	Aluminum standard solution	138
615000301	Ammonium standard solution	152
615000302	Ammonium standard solution	152
615000309	Ammonium standard solution	152
615000400	Antimony standard solution	168
615000501	Arsenic standard solution	171
615000502	Arsenic standard solution	171
615000509	Arsenic standard solution	171
615000601	Barium standard solution	178
615000609	Barium standard solution	178
615000700	Cadmium standard solution	219
615000709	Cadmium standard solution	219
615000801	Calcium standard solution	221
615000802	Calcium standard solution	221
615000803	Calcium standard solution	221
615000804	Calcium standard solution	221
615000809	Calcium standard solution	221
615000901	Chloride standard solution	243
615000909	Chloride standard solution	243
615001000	Chromium standard solution	251
615001002	Chromium standard solution	251
615001100	Copper standard solution	260
615001209	Ferrocyanide standard solution	331
615001300	Ferricyanide standard solution	331
615001401	Fluoride standard solution	336
615001409	Fluoride standard solution	336
615001601	Iron standard solution	400
615001602	Iron standard solution	400
615001603	Iron standard solution	400
615001605	Iron standard solution	400
615001606	Iron standard solution	400
615001609	Iron standard solution	400
615001700	Lead standard solution	425
615001701	Lead standard solution	425
615001702	Lead standard solution	425
615001703	Lead standard solution	425
615001704	Lead standard solution	425
615001705	Lead standard solution	425
615001706	Lead standard solution	425
615001709	Lead standard solution	425
615001801	Magnesium standard solution	437
615001802	Magnesium standard solution	437
615001803	Magnesium standard solution	437
615001809	Magnesium standard solution	437
615001900	Mercury standard solution	451
615001901	Mercury standard solution	451
615002001	Nickel standard solution	485
615002002	Nickel standard solution	485
615002009	Nickel standard solution	485
615002101	Nitrate standard solution	490
615002102	Nitrate standard solution	490
615002109	Nitrate standard solution	490
615002200	Phosphate standard solution	528
615002401	Potassium standard solution	535
615002402	Potassium standard solution	535
615002409	Potassium standard solution	535
615002500	Selenium standard solution	596
615002501	Selenium standard solution	596
615002609	Silver standard solution	601
615002701	Sodium standard solution	609
615002709	Sodium standard solution	609
615002801	Sulfate standard solution	673
615002802	Sulfate standard solution	673
615002809	Sulfate standard solution	673
615002900	Sulfite standard solution	674
615003000	Thallium standard solution	696
615003101	Tin standard solution	702
615003109	Tin standard solution	702
615003200	Titanium standard solution	705
615003300	Vanadium standard solution	725
615003400	Zinc standard solution	737
615003402	Zinc standard solution	737
615003403	Zinc standard solution	737
615003409	Zinc standard solution	737
615003500	Zirconium standard solution	744
615003600	Palladium standard solution	508
615003700	Glyoxal standard solution	351
615003809	Iodine 10 ppm	398
615004100	Chloride standard solution	243
615004200	Phosphate standard solution	528
615004300	Cobalt standard solution	256
615004400	Germanium standard solution	347
615004500	Manganese standard solution	446
615005100	Potassium standard solution	535
615005300	Bismuth standard solution	191
615005700	Sodium standard solution	609
615005800	Manganese standard solution	446
616001001	Silver nitrate solution	607
616001008	Sodium hypochlorite solution in water	638
616001018	Barium chloride 30g/L	181
617000001	Arsenic trioxide solution	172
617000101	Bromocresol green solution	199
617000111	Methyl red solution	469
617000121	Sodium hydroxide 1 mol/l (1N)	633
617000131	Phenolphthalein solution 1% in ethanol	526
617000141	Bromine solution	198
617000151	Ammonia solution 6N	151
617000161	Barium chloride 30g/L	181
617000171	Acetic acid 1 mol/l (1N)	124
617000181	Sodium hypochlorite solution in water	638
617000191	Hydrochloric acid 1 mol/l (1N)	378
617000201	Silver nitrate solution	607
E306702	Sulfuric acid 50%	679
E306704	Sulfuric acid 50%	679
E307661	Hydrogen peroxide solution 3.5% w/v	388
E406101	Phosphosulfuric acid	532
E409141	Perchloric acid 0.01 mol/l (0.01N)	517
E410395	Sulfuric acid 90%	678
E411131	L(+) Tartaric acid solution 20% in water	689
E411921	Aqueous calcium hydroxide	170
E413903	Isoamyl alcohol	408
E415932	Alizarin saturated solution in ethanol	136
E419261	Ammonium carbonate solution 20%	154
E419361	Ammonium citrate solution 20%	157
E419531	Ammonium chloride solution 10%	156
E420001	Ammonia solution 10%	150
E420321	Ammonium molybdate solution 5%	160
E420371	Ammonium molybdate solution 2.5% in nitric acid	160
E420521	Ammonium oxalate solution 4%	162
E423562	Methyl Orange solution 0.1%	467
E423982	Silver nitrate solution 5%	604
E424001	Silver nitrate solution 2.9075%	604
E425101	Barium chloride solution 10%	180
E425171	Barium chloride solution 0.14%	180
E425301	Barium hydroxide solution 5%	182
E425742	Benedict's reagent	184
E428541	Alkali Blue 6B solution 2% in ethanol	137
E428665	Bromophenol blue solution 0.4% in ethanol	201
E428715	Bromothymol blue 0.4% in ethanol	202
E429011	Methylene blue solution 1%	465
E429031	Methylene blue saturated solution	464
E429235	Thymol blue 0.4% in ethanol	700
E433427	Calcium chloride solution 0.025%	226
E434352	Haemalum solution according to Carazzi	355
E441071	Cupriethylenediamine solution	269
E441581	Diacetyldioxime solution 1% in ethanol	278
E446302	Ehrlich's reagent	307
E449936	Fehling's B reagent	331
E449937	Fehling's B reagent	331
E450043	o-Phenantroline-Iron (II) sul-phate solution in sulphuric acid	523
E451521	Iron (III) ammonium sulfate solution 33% in nitric acid	403
E451653	Iron (III) chloride solution 4.5%	405
E453612	Giemsa's reagent	347
E453613	Giemsa's reagent	347
E453615	Giemsa's reagent	347
E454872	Hanus's reagent	356
E454972	Hyamine 1622 solution 0.004M	369
E455256	Idrimeter Erba Solution A	391
E455257	Idrimeter Erba Solution A	391
E455266	Idrimeter Erba Solution B	391
E455267	Idrimeter Erba Solution B	391
E455271	Idrimeter Erba Indicator C	391
E455274	Idrimeter Erba Indicator C	391
E455641	Indicator universal pH 9-13 hydroalcoholic solution	394
E455642	Indicator universal pH 9-13 hydroalcoholic solution	394
E455651	Indicator for ammoniacal nitrogen solution	392
E455661	Indicator universal pH 0-5 hydroalcoholic solution	393
E455662	Indicator universal pH 0-5 hydroalcoholic solution	393
E455702	Indicator universal pH 1-11 hydroalcoholic solution	393

E455706	Indicator universal pH 1-11 hydroalcoholic solution	393
E455711	Indicator universal pH 1-11 water solution	394
E455712	Indicator universal pH 1-11 water solution	394
E458761	Lugol's Reagent Iodine-Iodide Solution	435
E458764	Lugol's Reagent Iodine-Iodide Solution	435
E460582	May Grünwald reagent	450
E460583	May Grünwald reagent	450
E460585	May Grünwald reagent	450
E463562	Folin-Ciocalteu's reagent	336
E465776	p-Nitrophenol solution 0,1% in water	498
E467784	Papanicolaou solution EA 50	509
E467785	Papanicolaou solution EA 50	509
E467786	Papanicolaou solution EA 50	509
E467794	Papanicolaou solution OG 6	510
E467795	Papanicolaou solution OG 6	510
E467796	Papanicolaou solution OG 6	510
E470045	Bromocresol purple solution 0.4% in ethanol	200
E471431	Potassium ferricyanide solution 11%	547
E471501	Potassium ferrocyanide solution 10%	548
E471926	Potassium hydrogen phthalate 0.1 mol/l (0.1N)	551
E472151	Potassium hydroxide solution 38% (40° Bé) in water	553
E472152	Potassium hydroxide solution 38% (40° Bé) in water	553
E472221	Potassium hydroxide solution 28%	553
E473961	Potassium pyrogallate solution 14%	567
E473962	Potassium pyrogallate solution 14%	567
E474381	Potassium thiocyanate solution 5%	571
E474417	Potassium thiocyanate 0.1 mol/l (0.1N)	570
E475632	Copper (I) chloride solution 7% in ammonia	263
E476211	Copper (II) sulfate solution 12.5%	266
E476805	o-Cresol Red solution 0.2% in ethanol	267
E476845	Phenol Red solution 0.2% in ethanol	525
E476915	Methyl red solution water/ethanol 0.2%	469
E476921	Methyl red solution 0.1% in ethanol	469
E477301	Starch paste solution 1%	666
E477302	Starch paste solution 1%	666
E477507	Soap solution in ethanol	608
E485041	Tin (II) chloride solution 10%	704
E485952	Sudan III hydroalcoholic saturated solution	672
E487031	Tetrabutylammonium hydroxide 0.1 mol/l (0.1N) in 2-propanol	692
E487755	Thymolphthalein 0.1% hydroalcoholic solution	701
E490056	Tropaeolin O solution 0.1%	722
E490451	Turk's reagent	723
E491255	Bromocresol Green 0.04% hydroalcoholic solution	199
E491551	Crystal violet solution 0.5% in anhydrous acetic acid	268
E491651	Gentian violet carbolated solution	346
E491661	Gentian violet carbolated solution	346
E491901	Wijs' reagent	731
E491902	Wijs' reagent	731
E494301	Zinc chloride solution 60%	740
E497401	Aluminum standard solution	139
E497405	Aluminum standard solution	139
E497411	Antimony standard solution	169
E497415	Antimony standard solution	169
E497421	Silver standard solution	602
E497425	Silver standard solution	602
E497441	Barium standard solution	178
E497445	Barium standard solution	178
E497451	Bismuth standard solution	191
E497455	Bismuth standard solution	191
E497461	Boron standard solution	196
E497465	Boron standard solution	196
E497481	Calcium standard solution	222
E497485	Calcium standard solution	222
E497491	Cobalt standard solution	257
E497495	Cobalt standard solution	257
E497501	Chromium standard solution	251
E497505	Chromium standard solution	251
E497511	Iron standard solution	401
E497515	Iron standard solution	401
E497521	Lithium standard solution	431
E497525	Lithium standard solution	431
E497531	Magnesium standard solution	437
E497535	Magnesium standard solution	437
E497541	Manganese standard solution	447
E497545	Manganese standard solution	447
E497561	Molybdenum standard solution	476
E497565	Molybdenum standard solution	476
E497571	Nickel standard solution	485
E497575	Nickel standard solution	485
E497581	Gold standard solution	352
E497585	Gold standard solution	352
E497591	Lead standard solution	425
E497595	Lead standard solution	425
E497601	Potassium standard solution	536
E497605	Potassium standard solution	536
E497611	Copper standard solution	260
E497615	Copper standard solution	260
E497621	Selenium standard solution	596
E497625	Selenium standard solution	596
E497631	Silicon standard solution	600
E497635	Silicon standard solution	600
E497641	Sodium standard solution	609
E497645	Sodium standard solution	609
E497651	Tin standard solution	702
E497655	Tin standard solution	702
E497661	Strontium standard solution	668
E497665	Strontium standard solution	668
E497671	Vanadium standard solution	725
E497675	Vanadium standard solution	725
E497681	Zinc standard solution	738
E497685	Zinc standard solution	738
FG200074	Ausilab 310	175
FG200075	Ausilab 320	175
FG200276	Ausilab 330	175
FG201138	Ausilab 210	174
FG201139	Ausilab 250	174
FG201140	Ausilab 500	176
FG201146	Ausilab 400	175
FG201149	Ausilab 110	173
FG201151	Ausilab 280	174
FG201200	Ausilab 290	174
FG201220	Ausilab 140	173
FG20C1156C5	Ausilab 260	174
P0011016	n-Butyl acetate	215
P0011021	n-Butyl acetate	215
P0021010	Ethyl acetate	321
P0021016	Ethyl acetate	321
P0021021	Ethyl acetate	321
P00210T21	Ethyl acetate	321
P0023216	Ethyl acetate	320
P0023221	Ethyl acetate	320
P0040228	Methyl acetate	462
P0040240	Methyl acetate	462
P0040248	Methyl acetate	462
P0040268	Methyl acetate	462
P0043721	Methyl acetate	462
P0051010	Acetone	126
P0051016	Acetone	126
P0053216	Acetone	126
P0053221	Acetone	126
P0060228	Acetonitrile	131
P0060248	Acetonitrile	131
P0060268	Acetonitrile	131
P0061010	Acetonitrile	131
P0061016	Acetonitrile	131
P0061021	Acetonitrile	131
P00610S10	Acetonitrile	131
P00610S16	Acetonitrile	131
P00610S21	Acetonitrile	131
P00610T10	Acetonitrile	131
P0063510	Acetonitrile	131
P0063516	Acetonitrile	131
P0063521	Acetonitrile	131
P00637S16	Acetonitrile	130
P00637S21	Acetonitrile	130
P00725P15	Acetic acid glacial	119
P00725P21	Acetic acid glacial	119
P0080212	Trifluoroacetic acid	716
P0080247	Trifluoroacetic acid	716
P0080297	Trifluoroacetic acid	716
P0082103	Trifluoroacetic acid	715
P0082147	Trifluoroacetic acid	715
P0082746	Trifluoroacetic acid	715
P0082747	Trifluoroacetic acid	715
P0093016	Decane	273
P0120041	Triton© X100 solution	721
P013A1010	Ethanol absolute anhydrous	311
P013A1016	Ethanol absolute anhydrous	311
P013A1021	Ethanol absolute anhydrous	311
P0171010	Butanol-1	212
P0171016	Butanol-1	212
P0190222	tert-Butanol	214
P0190268	tert-Butanol	214
P0191016	tert-Butanol	213
P0201016	Ethyl methyl ketone	329
P02410A10	Chloroform	247
P02410A16	Chloroform	247
P02410A21	Chloroform	247
P02410AT21	Chloroform	247
P02410E10	Chloroform	247
P02410E16	Chloroform	247
P02410E21	Chloroform	247
P02432E16	Chloroform	246
P02432E21	Chloroform	246
P0251010	Cyclohexane	270
P0251016	Cyclohexane	270
P0280228	1,2-Dichloroethane	281
P0281010	1,2-Dichloroethane	281
P0281016	1,2-Dichloroethane	281
P0281021	1,2-Dichloroethane	281
P0282716	1,2-Dichloroethane	280
P02910A10	Dichloromethane	283
P02910A16	Dichloromethane	283
P02910A21	Dichloromethane	283
P02910AT10	Dichloromethane	283
P02910AT16	Dichloromethane	283
P02910E10	Dichloromethane	283
P02910E16	Dichloromethane	283
P02910E21	Dichloromethane	283
P02932A16	Dichloromethane	282
P02932A21	Dichloromethane	282
P02932E16	Dichloromethane	282
P02932E21	Dichloromethane	282
P0300221	1,2-Dimethoxyethane	294
P0300268	1,2-Dimethoxyethane	294
P0301010	1,2-Dimethoxyethane	294

P03010T16	1,2-Dimethoxyethane	294
P0341010	n,n-Dimethylformamide	296
P0341016	n,n-Dimethylformamide	296
P0341021	n,n-Dimethylformamide	296
P03410T10	n,n-Dimethylformamide	296
P03410T16	n,n-Dimethylformamide	296
P0343216	n,n-Dimethylformamide	295
P0343221	n,n-Dimethylformamide	295
P0343516	n,n-Dimethylformamide	296
P0343521	n,n-Dimethylformamide	296
P0343522	n,n-Dimethylformamide	296
P0343541	n,n-Dimethylformamide	296
P0343549	n,n-Dimethylformamide	296
P0343550	n,n-Dimethylformamide	296
P0343567	n,n-Dimethylformamide	296
P03502T10	Dimethylsulphoxide	299
P03502T16	Dimethylsulphoxide	299
P03502T21	Dimethylsulphoxide	299
P0353216	Dimethylsulphoxide	298
P0353221	Dimethylsulphoxide	298
P0361010	1,4-Dioxane	301
P0361016	1,4-Dioxane	301
P0361021	1,4-Dioxane	301
P0370048	Petroleum benzin E	518
P0400252	n,n-Diisopropylethylamine	293
P0400272	n,n-Diisopropylethylamine	293
P0410228	Diethylene glycol dimethyl ether	289
P0410248	Diethylene glycol dimethyl ether	289
P0430228	Diisopropylether	293
P0430240	Diisopropylether	293
P0430248	Diisopropylether	293
P0430268	Diisopropylether	293
P0431016	Diisopropylether	292
P0441008	Diethyl ether	290
P0441010	Diethyl ether	290
P0441016	Diethyl ether	290
P0441021	Diethyl ether	290
P04410T10	Diethyl ether	290
P04410T16	Diethyl ether	290
P0501016	n-Heptane 99%	357
P0501021	n-Heptane 99%	357
P0521016	n-Hexane	363
P05230S01/16	n-Hexane 99%	362
P05230S01/21	n-Hexane 99%	362
P0523216	n-Hexane	363
P0523221	n-Hexane	363
P052323016	n-Hexane 99%	361
P052323021	n-Hexane 99%	361
P0531016	Isobutanol	409
P0553574W	Trichloroacetic acid solution 3% in dichloromethane	713
P0581016	Methylcyclohexane	464
P0601016	Methyl isobutyl ketone	466
P0641016	n-Pentane	513
P0643216	n-Pentane	513
P0643221	n-Pentane	513
P064323016	n-Pentane 99%	512
P064323021	n-Pentane 99%	512
P0643716	n-Pentane	513
P0643721	n-Pentane	513
P0651016	Isopentane	412
P0660216	Piperidine	534
P0660221	Piperidine	534
P0660248	Piperidine	534
P0663516	Piperidine	534
P0663521	Piperidine	534
P0671010	Pyridine	580
P0671016	Pyridine	580
P0671021	Pyridine	580
P06710S10	Pyridine	580
P06725P16	Pyridine	580
P0673516	Pyridine	580
P0673521	Pyridine	580
P0680228	Tetrachloroethylene	693
P0682716	Tetrachloroethylene	692
P0682721	Tetrachloroethylene	692
P0701010	Tetrahydrofuran	694
P0701016	Tetrahydrofuran	694
P0701021	Tetrahydrofuran	694
P07010T10	Tetrahydrofuran	694
P07010T16	Tetrahydrofuran	694
P0711010	Toluene	708
P0711016	Toluene	708
P0711021	Toluene	708
P07110T10	Toluene	708
P0713216	Toluene	708
P0713221	Toluene	708
P0833521	Mixture iodine/water/pyridine/ THF	474
P0853016	Hexadecane	360
P0871010	n-Methyl-2-pyrrolidone	468
P0873516	n-Methyl-2-pyrrolidone	468
P0873521	n-Methyl-2-pyrrolidone	468
P0873541	n-Methyl-2-pyrrolidone	468
P0873549	n-Methyl-2-pyrrolidone	468
P0873566	n-Methyl-2-pyrrolidone	468
P0883216	Petroleum ether 35 - 60°C	521
P0883221	Petroleum ether 35 - 60°C	521
P0890228	Isopropyl acetate	413
P0890240	Isopropyl acetate	413
P0890268	Isopropyl acetate	413
P0890528	Isopropyl acetate	413
P0900221	Methylisoamyl ketone	466
P0921016	tert-Butylmethylether	217
P0931010	Methanol	457
P0931016	Methanol	457
P0931021	Methanol	457
P0933216	Methanol	456
P0933221	Methanol	456
P0941016	Propan-1-ol	573
P0941021	Propan-1-ol	573
P0941049	Propan-1-ol	573
P0951010	Propan-2-ol	574
P0951016	Propan-2-ol	574
P1320017	Sodium sulfate anhydrous	651
P1320027	Sodium sulfate anhydrous	651
P1320044	Sodium sulfate anhydrous	651
P1460012	Magnesium sulfate anhydrous	443
P1460027	Magnesium sulfate anhydrous	443
P1460044	Magnesium sulfate anhydrous	443
P1460057	Magnesium sulfate anhydrous	443
P1810017	Molecular sieves 3 A	475
P1820017	Molecular sieves 4 A	475
P1820027	Molecular sieves 4 A	475
P1820057	Molecular sieves 4 A	475
P2000017	Silica gel 60A 35 - 70µ	598
P2000026	Silica gel 60A 35 - 70µ	598
P2000027	Silica gel 60A 35 - 70µ	598
P2000044	Silica gel 60A 35 - 70µ	598
P2010017	Silica gel 60A 6 - 35µ	597
P2010027	Silica gel 60A 6 - 35µ	597
P2010044	Silica gel 60A 6 - 35µ	597
P2050017	Silica gel 60A 40 - 63µ	598
P2050027	Silica gel 60A 40 - 63µ	598
P2050044	Silica gel 60A 40 - 63µ	598
P2100017	Silica gel 60A 70 - 200µ	599
P2100026	Silica gel 60A 70 - 200µ	599
P2100027	Silica gel 60A 70 - 200µ	599
P2100044	Silica gel 60A 70 - 200µ	599
P2200017	Silica gel 60A 20 - 45µ	598
P2200027	Silica gel 60A 20 - 45µ	598
P3100015	Acetic acid 0.1 mol/l (0.1N)	124
P3160015	Hydrochloric acid 5 mol/l (5N)	377
P3160095	Hydrochloric acid 5 mol/l (5N)	377
P3240015	Sulfuric acid 2.5 mol/l (5N)	681
P3250016	Iron (II) ammonium sulfate 0.1N	404
P3350016	Potassium dichromate 0.0167 mol/l (0.1 N)	546
P3440015	Sodium hydroxide 0.2 mol/l (N/5)	636
P3520022	Sodium thiosulfate 0.2 mol/l (0.2N)	657
P3530015	Sodium thiosulfate 0.5 mol/l (0.5N)	657
P3840016	Tetrabutylammonium hydroxide solution 0.1 mol/l (0.1N) in methanol / propanol-2	692
P4500022	Sodium hydroxide 1/9 mol/l (N/9)	636
P4540041	Sodium hydroxide solution 50%	627
P4540049	Sodium hydroxide solution 50%	627
P5006	Chloroform-d + 0,03% TMS	249
P5013A	Acetic acid-d4	125
P5039	Acetic acid-d4	125
P5044A	Acetone-d6	129
P5044S	Acetone-d6	129
P5045	Acetone-d6	129
P5046	Acetone-d6	129
P5049	Acetone-d6	129
P5055	Orthophosphoric acid-d3 85% in D2O	504
P5060	Acetone-d6	129
P5070	Acetonitrile-d3	132
P5073A	Acetonitrile-d3	132
P5079	Acetonitrile-d3	132
P5085	Benzene-d6	186
P5086	Benzene-d6	186
P5089	Benzene-d6	186
P5100	Benzene-d6	186
P5115	Chloroform-d	248
P5116	Chloroform-d	248
P5117	Chloroform-d	248
P5118	Chloroform-d	248
P5119	Chloroform-d	248
P5130	Chloroform-d	249
P5135	Chloroform-d	249
P5139	Chloroform-d	249
P5140	Methanol-d4 + 0.03% TMS	460
P5151A	Cyclohexane-d12	271
P5160	Deuterium oxide-d	275
P5160T	Deuterium oxide-d + 0.03% TSP d4	276
P5161T	Deuterium oxide-d + 0.5% TSP d4	276
P5164	Deuterium oxide-d	275
P5165	Deuterium oxide-d	275
P5165S	Deuterium oxide-d	275
P5166	Deuterium oxide-d	275
P5168	Deuterium oxide-d	275
P5169	Deuterium oxide-d	275
P5170D	Deuterium oxide-d + 0.01% DMSO	276
P5173D	Deuterium oxide-d + 0.01% DMSO	276
P5175	Deuterium oxide-d	275
P5179	Deuterium oxide-d	275
P5183A	n,n-Dimethylformamide-d7	297
P5189A	n,n-Dimethylformamide-d7	297
P5200	Dimethylsulphoxide-d6	299
P5204A	Dimethylsulphoxide-d6	299
P5204S	Dimethylsulphoxide-d6	299
P5205	Dimethylsulphoxide-d6	299
P5206	Dimethylsulphoxide-d6	299
P5209	Dimethylsulphoxide-d6	299
P5220	Dimethylsulphoxide-d6	299
P5229	Dimethylsulphoxide-d6	299
P5262A	Ethanol-d6 anhydrous	319
P5275	Methanol-d1	460
P5280	Methanol-d4	460
P5283A	Methanol-d4	460
P5284	Methanol-d4	460
P5284S	Methanol-d4	460
P5285	Methanol-d4	460
P5289	Methanol-d4	460
P5309	Methanol-d3	460

P5310	Methanol-d4	460
P5319	Methanol-d4	460
P5325	Chloroform-d	249
P5330	Dichloromethane-d2	286
P5334A	Dichloromethane-d2	286
P5335	Dichloromethane-d2	286
P5339	Dichloromethane-d2	286
P5364A	Pyridine-d5	581
P5369A	Pyridine-d5	581
P5370	Pyridine-d5	581
P5380	Tetrahydrofuran-d8	695
P5385	Tetrahydrofuran-d8	695
P5393A	Toluene-d8	710
P5395	Toluene-d8	710
P5399A	Toluene-d8	710
P5413A	Trifluoroacetic acid-d	716
P5419A	Trifluoroacetic acid-d	716
P5435	Tetrachloroethane-d2	692
P5449A	Trifluoroethanol-d2	717
P5455S	Tetramethylsilane	696
P5462	3-Trimethylsilylpropionic acid sodium salt-d4	718
P5472A	Hexane-d14	365
P5505	Chloroform-d	249
P5533A	1,2-Dichlorobenzene-d4	280
P5541	Dimethylsulphoxide-d6 + 0.03% TMS	300
P5545	Dimethylsulphoxide-d6 + 0.03% TMS	300
P557X	Molecular sieves 3 A deuterated	475
P5602	Dimethylsulphoxide-d6 + 0.03% TMS	300
P5605	Dimethylsulphoxide-d6 + 0.03% TMS	300
P5606	Dimethylsulphoxide-d6 + 0.03% TMS	300
P5665	Sodium hydroxide-d 1 mol/l	637
P5675	Sodium hydroxide-d 1 30%	637
P5685	Hydrochloric acid-d 20%	383
P5695	Hydrochloric acid-d 1 mol/l	383
P5733	Formic acid-d	342
P588100UP	Tubes 10 mm	722
P588500HP	Tubes 5 mm	722
P588500TT	Tubes 5 mm	722
P588500UP	Tubes 5 mm	722
P588501HP	Tubes 5 mm	722
P588505	Tubes 5 mm	722
P6070268	Isopropyl myristate	414
P6080503	Hexafluoro-2-propanol	360
P6080518	Hexafluoro-2-propanol	360
P6151010	Formamide	340
P6250222	2-(2-Butoxyethoxy)ethanol	215
P6263216	Isohexane	410
P6263221	Isohexane	410
P6310222	2-Butoxy ethanol	214
P7600513	Sodium laurylsulfate	640
P7600514	Sodium laurylsulfate	640
P7600517	Sodium laurylsulfate	640
P8010216	Cyclopentyl methyl ether	272
P8010229	Cyclopentyl methyl ether	272
P8020216	n,n'-Dimethylpropylene uree	298
P8020218	n,n'-Dimethylpropylene uree	298
P8020229	n,n'-Dimethylpropylene uree	298
P8020248	n,n'-Dimethylpropylene uree	298
P8030216	1,3-Dioxolane	302
P8030222	1,3-Dioxolane	302
P8040216	1,3-Propanediol	577
P8040222	1,3-Propanediol	577
P8040268	1,3-Propanediol	577
P8880014	Dicalite 4158	278
P8880017	Dicalite 4158	278
P8880027	Dicalite 4158	278
P932SP16	Sulfolane	674
P9350015	Sodium hypochlorite solution 12.5%	638
P9350046	Sodium hypochlorite solution 12.5%	638
P9350049	Sodium hypochlorite solution 12.5%	638
P9550276	Lynalol	430
P9960216	2-Methyltetrahydrofuran	470
P9960221	2-Methyltetrahydrofuran	470
P9960229	2-Methyltetrahydrofuran	470
P9960248	2-Methyltetrahydrofuran	470
P9960268	2-Methyltetrahydrofuran	470
P9990216	4-Methyltetrahydropyran	471
P9990218	4-Methyltetrahydropyran	471
P9990221	4-Methyltetrahydropyran	471
PS0016/96	Sulfuric acid 0.025 mol/l (0.05N)	684
PS0026/95	Sulfuric acid 0.005 mol/l (0.01N)	684
PS0030/15	Silver nitrate 0.01 mol/l (N/100)	606
PS0047/15	Sulfuric acid 0.01 mol/l (0.02N)	684
PS0047/95	Sulfuric acid 0.01 mol/l (0.02N)	684
PS0047/96	Sulfuric acid 0.01 mol/l (0.02N)	684
PS0083/41	Sodium persulfate 1 mol/l	645
PS0083/42	Sodium persulfate 1 mol/l	645
PS0084/22	Orthophosphoric acid 10%	504
PS0084/42	Orthophosphoric acid 10%	504
PS0158/15	Rhodol solution	588
PS0158/29	Rhodol solution	588
PS0158/41	Rhodol solution	588
PS0168/15	Silver nitrate 0.025 mol/l (0.025N)	606
PS0187/15	Thymol blue TA indicator	701
PS0187/16	Thymol blue TA indicator	701
PS0189/15	Bromophenol blue TAC indicator	202
PS0189/16	Bromophenol blue TAC indicator	202
PS0194/22	Ammonia buffer solution pH 10	151
PS0194/95	Ammonia buffer solution pH 10	151
PS0194/96	Ammonia buffer solution pH 10	151
PS0200/15	Buffer pH 10	210
PS0200/95	Buffer pH 10	210
PS0212/21	Sulfuric acid 25 %	680
PS0215/15	Sodium hydroxide 0.01 mol/l (N/100)	637
PS0217/15	Sulfuric acid 0.166 mol/l (0.333N)	682
PS0219/15	Sulfuric acid 0.02 mol/l (0.04N)	684
PS0219/95	Sulfuric acid 0.02 mol/l (0.04N)	684
PS0219/96	Sulfuric acid 0.02 mol/l (0.04N)	684
PS0221/29	Acetic acid 12%	123
PS0222/52	Acetic acid 25%	123
PS0226/29	Boric buffer solution	195
PS0226/41	Boric buffer solution	195
PS0269/15	Bromophenol blue indicator	202
PS0270/15	Thymol blue indicator	700
PS0308/15	Titrating solution	707
PS0311/20	Nitric acid 8 mol/l (8N)	495
PS0320/41	Sodium hydroxide 40g/l	631
PS0327/21	Reagent TAN	585
PS0327/29	Reagent TAN	585
PS0327/39	Reagent TAN	585
PS0342/15	Hydrochloric acid 0.02 mol/l (0.02N)	382
PS0347/22	Hydrochloric acid 12%	375
PS0347/49	Hydrochloric acid 12%	375
PS0347/66	Hydrochloric acid 12%	375
PS0363/21	Tisab	705
PS0423/21	Reagent TBN	586
PS0423/29	Reagent TBN	586
PS0423/39	Reagent TBN	586
PS0427/15	Buffer pH 9	209
PS0427/19	Buffer pH 9	209
PS0445/22	Sulfuric acid 0.125 mol/l (0.25N)	683
PS0445/41	Sulfuric acid 0.125 mol/l (0.25N)	683
PS0492/41	Fehling's A reagent	331
PS0493/41	Fehling's B reagent	331
PS0562/22	Boric acid 20 g/l with indicator	194
PS0563/21	Boric acid 3%	195
PS0573/21	Mixture for bromine index determination	473
PS0587/15	Hydrochloric acid 0.05 mol/l (0.05N)	382
PS0587/22	Hydrochloric acid 0.05 mol/l (0.05N)	382
PS0589/15	Hydrochloric acid 4 mol/l (4N)	377
PS0589/22	Hydrochloric acid 4 mol/l (4N)	377
PS0589/49	Hydrochloric acid 4 mol/l (4N)	377
PS0594/41	Sodium hydroxide 2.5 mol/l (2.5N)	632
PS0594/42	Sodium hydroxide 2.5 mol/l (2.5N)	632
PS0594/66	Sodium hydroxide 2.5 mol/l (2.5N)	632
PS0703/22	Boric Acid 20g/l	194
PS0724/42	Nitric acid 7 mol/l (7N)	495
PS0736/41	Sodium hydroxide 1.2 mol/l (1.2N)	633
PS0736/42	Sodium hydroxide 1.2 mol/l (1.2N)	633
PS0736/49	Sodium hydroxide 1.2 mol/l (1.2N)	633
PS0740/95	Phosphate buffer pH 7.4	529
PS0751/29	Hydrochloric acid 20%	374
PS0768/41	Hydrochloric acid 10%	375
PS0769/20	Hydrochloric acid 26%	374
PS0772/49	Potassium chloride 1 mol/l (1N)	542
PS0772/79	Potassium chloride 1 mol/l (1N)	542
PS0776/49	Acetic acid 80%	121
PS0784/95	Buffer acetate pH 4.5	203
PS0808/41	Acetic acid 17%	123
PS0809/22	Tisab	705
PS0858/49	Sodium hydroxide 200g/l	631
PS0864/41	Hydrochloric acid 5%	376
PS0893/21	Sulfuric acid 69%	679

50-00-0	Formaldehyde 37% w/v neutralized	336
50-00-0	Formaldehyde 37% w/v	337
50-00-0	Formaldehyde 35% w/w	337
50-00-0	Formaldehyde 30% w/v	337
50-00-0	Formaldehyde 30% w/w with sodium chloride	338
50-00-0	Formaldehyde 10% v/v according to Lillie	338
50-00-0	Formaldehyde 5% w/v buffered at pH 6.9	338
50-00-0	Formaldehyde 4% w/v with sodium chloride	339
50-00-0	Formaldehyde 4% w/v buffered at pH 6.9	339
50-00-0	Formaldehyde acetic	340
50-69-1	D(-)Ribose	589
50-70-4	Sorbitol	659
50-70-4	Sorbitol (no crystallizable) solution 70%	659
50-70-4	D-Sorbitol	660
50-81-7	L(+)Ascorbic acid	172
50-99-7	D(+)Glucose anhydrous	348
52-90-4	L-Cysteine	272
54-21-7	Sodium salicylate	650
55-55-0	4-Methylaminophenol sulfate	462
56-40-6	Glycine	351
56-81-5	Glycerol (30°Bé)	349
56-81-5	Glycerol 90% (28° Bé)	350
56-84-8	L(+)Aspartic acid	173
56-86-0	L(+)Glutamic acid	349
56-89-3	L-Cystine	272
56-92-8	Histamine dihydrochloride	366
57-09-0	Trimethylcetylammonium bromide	717
57-11-4	Stearic acid	667
57-13-6	Urea	724
57-48-7	D(-)Fructose	342
57-50-1	D(+)-Sucrose	671
57-55-6	Propylene glycol	579
58-08-2	Caffeine anhydrous	221
58-86-6	D(+)Xylose	734
59-23-4	D(+)Galactose	344
59-51-8	DL-Methionine	461
59-67-6	Nicotinic acid	489
59-88-1	Phenylhydrazine hydrochloride	524
59-88-1	Phenolphthalein solution 0.1%	526
59-88-1	Phenylhydrazine hydrochloride solution	528
60-00-4	Ethylenediaminetetraacetic acid	323
60-10-6	Diphenylthiocarbazone	304
60-11-7	Methyl yellow	471
60-12-8	2-Phenylethanol	527
60-18-4	L(-)Tyrosine	723
60-24-2	2-Mercaptoethanol	451
60-29-7	Diethyl ether	289
60-35-5	Acetamide	117
61-73-4	Methylene blue saturated solution	464
61-73-4	Methylene blue solution 1%	465
61-90-5	L(+)-Leucine	430
62-44-2	p-Acetylphenetidine	133
62-54-4	Calcium acetate anhydrous	222
62-55-5	Thioacetamide	697
62-55-5	Thioacetamide solution 40 g/l	697
62-56-6	Thiourea	698
62-76-0	Sodium oxalate	643
63-74-1	Sulfanilamide	673
63-91-2	L-Phenylalanine	527
64-17-5	Ethanol absolute anhydrous	311
64-17-5	Ethanol 96°	314
64-17-5	Ethanol 70 % v/v	315
64-17-5	Ethanol 60 % v/v	316
64-17-5	Ethanol 50% v/v	316
64-17-5	Ethanol absolute denaturated	317
64-17-5	Ethanol 95° denaturated	317
64-17-5	Ethanol 94° denaturated	318
64-17-5	Ethanol 90° denaturated	318
64-17-5	Ethanol 70°modified	318
64-17-5	Ethanol with 5% Isopropanol (w/w)	319
64-18-6	Formic acid 99%	340
64-18-6	Formic acid 85%	341
64-19-7	Acetic acid glacial	118
64-19-7	Acetic acid 96%	121
64-19-7	Acetic acid 80%	121
64-19-7	Acetic acid 45%	122
64-19-7	Acetic acid 30%	122
64-19-7	Acetic acid 28%	122
64-19-7	Acetic acid 27%	122
64-19-7	Acetic acid 25%	123
64-19-7	Acetic acid 17%	123
64-19-7	Acetic acid 12%	123
64-19-7	Acetic acid 1 mol/l (1N)	124
64-19-7	Acetic acid 0.1 mol/l (0.1N)	124
64-19-7	Acetic acid 0.03 mol/l (0.03N)	124
65-61-2	Acridine orange	134
65-85-0	Benzoic acid	187
67-42-5	Ethylene glycol bis(2-aminoethyl ether)-N,N,N',N'-tetraacetic acid	328
67-43-6	Diethylenetriaminepentacetic acid	289
67-52-7	Barbituric acid	178
67-56-1	Methanol	455
67-56-1	Methanol + 0.1% v/v formic acid	459
67-56-1	Methanol + 0.1% v/v trifluoroacetic acid	459
67-56-1	Methanol, hydrochloric	459
67-63-0	Propan-2-ol	573
67-63-0	Propan-2-ol 70%	576
67-64-1	Acetone	126
67-66-3	Chloroform	245
67-68-5	Dimethylsulphoxide	298
68-04-2	Sodium citrate tribasic anhydrous	620
68-11-1	Thioglycolic acid 80%	698
68-12-2	n,n-Dimethylformamide	295
69-65-8	D-Mannitol	449
69-72-7	Salicylic acid	592
70-55-3	p-Toluene sulfonamide	710
71-23-8	Propan-1-ol	572
71-36-3	Butanol-1	212
71-41-0	n-Amyl alcohol	166
71-43-2	Benzene	185
71-91-0	Tetraethylammonium bromide	693
72-48-0	Alizarin	136
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74-79-3	L(+)Arginine	170
74-88-4	Methyl iodide	465
75-05-8	Acetonitrile	129
75-05-8	Acetonitrile + 0.1% v/v formic acid	132
75-05-8	Acetonitrile + 0.1% v/v trifluoroacetic acid	132
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75-09-2	Dichloromethane acidified with 1% hydrochloric acid	286
75-12-7	Formamide	340
75-31-0	Isopropylamine	414
75-47-8	Iodoform	399
75-59-2	Tetramethylammonium hydroxide 10%	695
75-65-0	tert-Butanol	213
75-75-2	Methanesulfonic acid	454
75-76-3	Tetramethylsilane	696
75-78-5	Dimethyldichlorosilane	295
75-85-4	tert-Amyl alcohol	166
76-03-9	Trichloroacetic acid	712
76-03-9	Trichloroacetic acid solution 20%	713
76-03-9	Trichloroacetic acid solution 3% in dichloromethane	713
76-05-1	Trifluoroacetic acid	715
76-54-0	2',7'-Dichlorofluorescein	281
76-59-5	Bromothymol blue	202
76-59-5	Bromothymol blue 0.4% in ethanol	202
76-59-5	Bromothymol blue 0.02%	202
76-59-5	Bromothymol blue solution	203
76-60-8	Bromocresol Green	199
76-60-8	Bromocresol Green 0.04% hydroalcoholic solution	199
76-60-8	Bromocresol green solution	199
76-61-9	Thymol blue	700
76-61-9	Thymol blue 0.4% in ethanol	700
77-09-8	Phenolphthalein	525
77-86-1	Tris (hydroxymethyl)-aminomethane	719
77-92-9	Citric acid anhydrous	255
78-50-2	Trioctylphosphine oxide	718
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78-70-6	Lynalol	430
78-78-4	Isopentane	412
78-83-1	Isobutanol	409
78-92-2	Butanol-2	213
78-93-3	Ethyl methyl ketone	329
79-07-2	Chloroacetamide	244
79-09-4	Propionic acid	578
79-11-8	Chloroacetic acid	244
79-14-1	Glycolic acid	351
79-20-9	Methyl acetate	462
79-24-3	Nitroethane	498
79-31-2	Isobutyric acid	410
79-33-4	Lactic acid	422
79-43-6	Dichloroacetic acid	279
82-94-0	Methyl green	465
83-07-8	4-Aminophenazon	146
83-88-5	Riboflavine	589
84-66-2	Diethyl phthalate	291
85-44-9	Phthalic anhydride	533
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85-86-9	Sudan III hydroalcoholic saturated solution	672
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87-69-4	L(+) Tartaric acid solution 20% in water	689
87-88-7	Chloranilic acid	243
87-89-8	Inositol	396
88-89-1	Picric acid solution	533
88-99-3	Phthalic acid	533
89-83-8	Thymol	699
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90-13-1	alpha-Chloronaphthalene	249
90-15-3	1-Naphthol	481
90-44-8	Anthrone	168
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91-01-0	Benzhydrol	186
91-20-3	Naphthalene	481
91-22-5	Quinoline	584
92-31-9	Toluidine blue	711
92-71-7	2,5-Diphenyloxazole	303
93-58-3	Methyl benzoate	462
94-13-3	Propyl p-hydroxybenzoate	579
94-36-0	Dibenzoyl peroxide	278
95-45-4	Diacetyldioxime	277
95-45-4	Diacetyldioxime solution 1% in ethanol	278
95-47-6	o-Xylene	733

95-48-7	o-Cresol	267
95-50-1	o-Dichlorobenzene	279
95-57-8	2-Chlorophenol	249
96-47-9	2-Methyltetrahydrofuran	470
97-00-7	2,4-Dinitrochlorobenzene	300
97-53-0	Eugenol	329
98-09-9	Benzenesulfonyl chloride	186
98-59-9	p-Toluenesulfonylchloride	711
98-86-2	Acetophenone	133
98-92-0	Nicotinamide	488
98-95-3	Nitrobenzene	497
99-61-6	m-Nitrobenzaldehyde	497
99-76-3	Methyl 4-hydroxybenzoate	465
100-02-7	p-Nitrophenol	498
100-09-4	Anisic acid	168
100-10-7	p-Dimethylaminobenzaldehyde	294
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100-51-6	Benzyl alcohol	188
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102-71-6	Triethanolamine	714
102-76-1	Triacetin	712
103-33-3	Azobenzene	176
103-82-2	Phenylacetic acid	526
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103-84-4	Melting point standards	472
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105-58-8	Diethyl carbonate	288
106-46-7	p-Dichlorobenzene	280
106-48-9	4-Chlorophenol	250
106-49-0	p-Toluidine	711
106-51-4	p-Benzoquinone	187
107-06-2	1,2-Dichloroethane	280
107-07-3	2-Chloroethanol solution	245
107-15-3	Ethylenediamine	323
107-21-1	Ethylene glycol	327
107-35-7	Taurine	689
107-83-5	Isohexane	410
107-88-0	1,3-Butanediol	212
107-92-6	n-Butyric acid	218
107-95-9	ß-Alanine	137
108-10-1	Methyl isobutyl ketone	466
108-18-9	Diisopropylamine	292
108-19-0	Biuret 97%	193
108-19-0	Biuret reagent	193
108-20-3	Diisopropylether	292
108-21-4	Isopropyl acetate	413
108-24-7	Acetic anhydride	125
108-30-5	Succinic anhydride	670
108-31-6	Maleic anhydride	445
108-32-7	Propylene carbonate	579
108-39-4	m-Cresol	266
108-41-8	m-Chlorotoluene	250
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108-73-6	Phloroglucinol	528
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108-88-3	Toluene	707
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108-91-8	Cyclohexylamine	272
108-93-0	Cyclohexanol	271
108-94-1	Cyclohexanone	271
108-95-2	Phenol	524
108-95-2	Phenol liquified 85%	524
109-52-4	n-Valeric acid	725
109-57-9	Allylthiourea	138
109-60-4	n-Propyl acetate	578
109-66-0	n-Pentane 99%	512
109-66-0	n-Pentane	513
109-69-3	n-Butyl chloride	216
109-86-4	2-Methoxy ethanol	461
109-89-7	Diethylamine	287
109-94-4	Ethyl formate	328
109-99-9	Tetrahydrofuran	693
110-12-3	Methylisoamyl ketone	466
110-15-6	Succinic acid	670
110-16-7	Maleic acid	445
110-17-8	Fumaric acid	343
110-19-0	Isobutyl acetate	409
110-27-0	Isopropyl myristate	414
110-54-3	n-Hexane 99%	361
110-54-3	n-Hexane	363
110-54-3	Hexane mixture of isomers	364
110-71-4	1,2-Dimethoxyethane	294
110-82-7	Cyclohexane	269
110-86-1	Pyridine	580
110-89-4	Piperidine	534
110-91-8	Morpholine	477
111-20-6	Sebacic acid	595
111-30-8	Glutardialdehyde solution 50%	349
111-42-2	Diethanolamine	287
111-46-6	Diethylene glycol	288
111-65-9	n-Octane	500
111-65-9	Octane 80 blend	500
111-76-2	2-Butoxy ethanol	214
111-87-5	Octanol-1	500
111-96-6	Diethylene glycol dimethyl ether	288
112-27-6	Triethylene glycol	715
112-34-5	2-(2-Butoxyethoxy)ethanol	214
112-80-1	Oleic acid	502
114-83-0	1-Acetyl-2-phenylhydrazine	134
115-20-8	2.2.2-Trichlorethanol	713
115-39-9	Bromophenol blue	201
115-39-9	Bromophenol blue solution 0.4% in ethanol	201
115-39-9	Bromophenol blue solution 0.02%	201
115-39-9	Bromophenol blue solution	201
115-40-2	Bromocresol purple	200
115-40-2	Bromocresol purple solution 0.4% in ethanol	200
115-41-3	Pyrocatechol violet	582
116-63-2	1-Amino-2-naphthol-4-sulfonic acid	145
117-92-0	Quinaldine red	584
118-10-5	Cinchonine	254
118-75-2	Chloranil	242
119-26-6	2,4-Dinitrophenylhydrazine (with 30% of water)	301
119-36-8	Methyl salicylate	470
119-64-2	1,2,3,4-Tetrahydronaphthalene	695
119-93-7	o-Tolidine solution 0.1%	707
120-46-7	Dibenzoylmethane	278
120-51-4	Benzyl benzoate	189
120-72-9	Indole	395
120-80-9	Pyrocatechol	582
120-82-1	1,2,4-Trichlorobenzene	713
121-33-5	Vanillin	726
121-44-8	Triethylamine	714
121-54-0	Hyamine 1622	368
121-54-0	Hyamine 1622 solution 0.004M	369
121-57-3	Griess' reagent A	353
121-57-3	Sulfanilic acid	673
121-92-6	m-Nitrobenzoic acid	498
122-39-4	Diphenylamine	302
122-39-4	Diphenylamine solution 1% in sulfuric acid	302
123-11-5	Anisaldehyde	167
123-30-8	p-Aminophenol	146
123-31-9	Hydroquinone	389
123-38-6	Propionaldehyde	578
123-42-2	Diacetone alcohol	277
123-51-3	Isoamyl alcohol	408
123-54-6	Acetylacetone	133
123-86-4	n-Butyl acetate	215
123-91-1	1,4-Dioxane	301
123-92-2	Isoamyl acetate	408
124-04-9	Adipic acid	135
124-07-2	n-Caprylic acid	234
124-18-5	Decane	273
124-41-4	Sodium methoxide 0.1 mol/l	641
125-20-2	Thymolphthalein	701
125-20-2	Thymolphthalein 0.1% hydroalcoholic solution	701
125-20-2	Thymolphtalein solution 0.1% in ethanol	701
126-33-0	Sulfolane	674
126-73-8	Tributylphosphate	712
126-81-8	Dimedone	293
127-08-2	Potassium acetate	536
127-09-3	Sodium acetate anhydrous	610
127-18-4	Tetrachloroethylene	692
127-19-5	n,n-Dimethylacetamide	294
127-65-1	Chloramine T sodium salt	242
128-37-0	Butylhydroxytoluene	216
130-22-3	Alizarin red	136
132-33-2	Thorin	698
134-03-2	Sodium L-ascorbate	612
135-19-3	2-Naphthol	481
138-32-9	Trimethylcetylammonium p-toluenesulfonate	718
138-89-6	p-Nitroso-n,n-dimethylaniline	499
139-13-9	Nitrilotriacetic acid	497
140-22-7	sym-Diphenylcarbazide	303
141-43-5	Ethanolamine	319
141-53-7	Sodium formate	623
141-78-6	Ethyl acetate	320
141-82-2	Malonic acid	445
141-97-9	Ethyl acetoacetate	322
142-04-1	Aniline hydrochloride	167
142-47-2	Sodium glutamate acid	623
142-62-1	n-Caproic acid	233
142-82-5	n-Heptane 99%	357
142-82-5	n-Heptane	358
142-82-5	Heptane mixture of isomers	359
143-66-8	Sodium tetraphenylborate	655
143-74-8	Phenol red	525
144-33-2	Sodium citrate dibasic sesquihydrate	620
144-55-8	Eluent sodium bicarbonate	307
144-55-8	Eluent sodium carbonate	307
144-55-8	Sodium bicarbonate	614
144-62-7	Oxalic acid 0.05 mol/l (0.1N)	506
145-50-6	alpha-Naphtholbenzein	482
145-50-6	alpha-Naphtholbenzein solution 0.2% in acetic acid	482
147-85-3	L(-)Proline	572
148-24-3	8-Hydroxyquinoline	390
149-45-1	Tiron	704
150-13-0	p-Aminobenzoic acid	145
151-21-3	Sodium laurylsulfate	639
288-32-4	Imidazole	391
298-14-6	Potassium bicarbonate	537
298-96-4	2,3,5-Triphenyltetrazolium chloride	719
302-17-0	Chloral hydrate	242
333-20-0	Potassium thiocyanate	570
333-20-0	Potassium thiocyanate 0.1 mol/l (0.1N)	570
333-20-0	Potassium thiocyanate solution 5%	571
333-20-0	Potassium thiocyanate solution	571
366-18-7	2,2'-Dipyridyl	304
375-22-4	Heptafluorobutyric acid	357
407-25-0	Trifluoroacetic anhydride	716
409-21-2	Carborundum, granules	234
409-21-2	Carborundum, powder	235
464-49-3	Camphor natural	233
471-34-1	Calcium carbonate	223
477-73-6	Safranine T	592
477-73-6	Safranine T hydroalcoholic solution for Gram-Hucker Kit	592
484-11-7	Neocuproine	483

485-47-2	Ninhydrin	489
493-52-7	Methyl red	469
493-52-7	Methyl red solution	469
495-69-2	Hippuric acid	366
497-19-8	Sodium carbonate anhydrous	616
497-19-8	Sodium carbonate solution 20%	617
497-19-8	Sodium carbonate solution	618
497-19-8	Sodium carbonate 0.5 mol/l (1N)	618
497-19-8	Sodium carbonate 0.05 mol/l (0.1N)	618
504-17-6	2-Thiobarbituric acid	697
504-63-2	1,3-Propanediol	577
513-35-9	2-Methyl-2-butene	463
513-77-9	Barium carbonate	179
513-78-0	Cadmium carbonate	220
517-28-2	Hematoxylin	356
517-28-2	Hematoxyline solution according to Mayer	356
518-47-8	Fluorescein sodium salt	335
518-67-2	Dimidium bromide	300
521-31-3	Luminol	436
526-94-3	Sodium hydrogen tartrate monohydrate	625
527-07-1	Sodium gluconate	623
532-32-1	Sodium benzoate	613
534-16-7	Silver carbonate	603
536-17-4	p-Dimethylaminobenzylidenerhodanine	295
538-28-3	S-Benzylisothiourea hydrochloride	189
538-62-5	sym-Diphenylcarbazone	303
538-75-0	n,n'-Dicyclohexylcarbodiimide	287
540-69-2	Ammonium formate	158
540-72-7	Sodium sulfocyanate	653
540-84-1	Isooctane	411
541-73-1	m-Dichlorobenzene	279
543-80-6	Barium acetate	179
543-94-2	Strontium acetate	668
544-17-2	Calcium formate	227
544-76-3	Hexadecane	360
546-68-9	Titanium isopropylate	706
547-57-9	Tropaeolin O	721
547-57-9	Tropaeolin O solution 0.1%	722
547-58-0	Methyl orange	467
547-58-0	Methyl Orange solution 0.1%	467
548-24-3	Eosin B	308
548-62-9	Crystal violet	268
548-62-9	Crystal violet solution 0.5% in anhydrous acetic acid	268
548-62-9	Gentian violet	346
548-62-9	Gentian violet carbolated solution	346
553-24-2	Neutral red	485
554-13-2	Lithium carbonate	432
557-04-0	Magnesium stearate	443
557-05-1	Zinc stearate	742
563-63-3	Silver acetate	603
569-64-2	Malachite green	444
573-58-0	Congo red	259
573-58-0	Congo red solution	259
584-08-7	Potassium carbonate	539
587-98-4	Metanil yellow	454
591-27-5	m-Aminophenol	146
593-81-7	Trimethylamine hydrochloride	717
598-62-9	Manganese (II) carbonate	448
599-00-8	Trifluoroacetic acid-d	716
603-35-0	Triphenylphosphine	719
603-45-2	Rosolic acid	590
616-91-1	n-Acetylcysteine	133
617-48-1	DL-Malic acid	445
620-45-1	2,6-Dichlorophenolindophenol sodium salt	286
631-61-8	Ammonium acetate	152
632-99-5	Fuchsin basic	343
632-99-5	Fuchsin solution decolorised	343
633-03-4	Brilliant green	196
633-96-5	Orange II	502
635-38-1	Pyridoxine dipalmitate	581
637-01-4	n,n,n',n'-Tetramethyl-p-phenylenediamine dihydrochloride	696
643-79-8	o-Phthalaldehyde	532
645-35-2	L-Histidine hydrochloride monohydrate	367
646-06-0	1,3-Dioxolane	302
657-27-2	L(+)Lysine monohydrochloride	436
657-84-1	p-Toluenesulfonic acid sodium salt	710
666-52-4	Acetone-d6	129
811-98-3	Methanol-d4	460
811-98-3	Methanol-d4 + 0.03% TMS	460
842-07-9	Sudan yellow	672
860-22-0	Indigo carmine dried	394
860-22-0	Indigo carmine solution	394
865-49-6	Chloroform-d	248
865-49-6	Chloroform-d + 0,03% TMS	249
868-14-4	Potassium L-tartrate monobasic	569
870-24-6	2-Chloroethylamine hydrochloride	245
872-50-4	n-Methyl-2-pyrrolidone	468
877-24-7	Potassium hydrogen phthalate	550
877-24-7	Potassium hydrogen phthalate 0.2 mol/l (0.2N)	551
877-24-7	Potassium hydrogen phthalate 0.1 mol/l (0.1N)	551
920-66-1	Hexafluoro-2-propanol	360
925-94-0	Formic acid-d	342
927-20-8	Magnesium glycerophosphate	440
975-17-7	Phenylfluorone	527
999-97-3	Hexamethyldisilazane	361
1064-48-8	Amidoschwarz 10B solution	144
1066-33-7	Ammonium bicarbonate	153
1076-43-3	Benzene-d6	186
1111-78-0	Ammonium carbamate	154
1119-34-2	L(+)Arginine monohydrochloride	171
1119-94-4	Dodecyltrimethylammonium bromide	305
1149-16-2	Glyoxal-bis-(2-hydroxyanil)	352
1185-53-1	Tris (hydroxymethyl)-aminomethane hydrochloride	721
1185-57-5	Iron (III) ammonium citrate green	402
1185-57-5	Iron (III) ammonium citrate red	402
1186-52-3	Acetic acid-d4	125
1303-96-4	Sodium tetraborate decahydrate	654
1304-29-6	Barium peroxide	183
1304-85-4	Bismuth(III) nitrate basic	192
1305-62-0	Calcium hydroxide	227
1305-78-8	Calcium oxide, lumps	229
1305-78-8	Calcium oxide, powder	229
1308-38-9	Chromium (III) oxide	252
1309-37-1	Iron (III) oxide	406
1309-48-4	Magnesium oxide	441
1309-48-4	Magnesium oxide heavy	442
1309-60-0	Lead (IV) oxide	429
1310-58-3	Potassium hydroxide, flakes	551
1310-58-3	Potassium hydroxide, pellets	552
1310-58-3	Potassium hydroxide solution 45%	553
1310-58-3	Potassium hydroxide solution 38% (40° Bé) in water	553
1310-58-3	Potassium hydroxide solution 28%	553
1310-58-3	Potassium hydroxide solution 3% in ethanol	553
1310-58-3	Potassium hydroxide 2 mol/l (2N) in ethanol	554
1310-58-3	Potassium hydroxide 1 mol/l (1N)	554
1310-58-3	Potassium hydroxide 0.5 mol/l (0.5N)	554
1310-58-3	Potassium hydroxide 0.5 mol/l (0.5N) in ethanol	555
1310-58-3	Potassium hydroxide 0.5 mol/l (0.5N) in methanol	555
1310-58-3	Potassium hydroxide 0.46 mol/l (0.46N)	556
1310-58-3	Potassium hydroxide 0.25 mol/l (0.25N)	556
1310-58-3	Potassium hydroxide 0.23 mol/l (0.23N)	556
1310-58-3	Potassium hydroxide 0.1 mol/l (0.1N)	556
1310-58-3	Potassium hydroxide 0.1 mol/l (0.1N) in methanol	557
1310-58-3	Potassium hydroxide 0.1 mol/l (0.1N) in ethanol	557
1310-65-2	Lithium hydroxide anhydrous	433
1310-66-3	Lithium hydroxide monohydrate	433
1310-73-2	Sodium hydroxide, pearls	626
1310-73-2	Sodium hydroxide, pellets	626
1310-73-2	Sodium hydroxide on silica	627
1310-73-2	Sodium hydroxide solution 50%	627
1310-73-2	Sodium hydroxide solution 40%	627
1310-73-2	Sodium hydroxide solution 35-37%	628
1310-73-2	Sodium hydroxide solution 35%	628
1310-73-2	Sodium hydroxide solution 32%	628
1310-73-2	Sodium hydroxide solution 30%	629
1310-73-2	Sodium hydroxide solution 20% w/v	629
1310-73-2	Sodium hydroxide solution 20% w/w	630
1310-73-2	Sodium hydroxide solution 10% w/v	630
1310-73-2	Sodium hydroxide solution 5% w/v	630
1310-73-2	Sodium hydroxide 200g/l	631
1310-73-2	Sodium hydroxide 40g/l	631
1310-73-2	Sodium hydroxide solution	631
1310-73-2	Sodium hydroxide solution, methanolic	631
1310-73-2	Sodium hydroxide 5 mol/l (5N)	632
1310-73-2	Sodium hydroxide 3 mol/l (3N)	632
1310-73-2	Sodium hydroxide 2.5 mol/l (2.5N)	632
1310-73-2	Sodium hydroxide 2 mol/l (2N)	633
1310-73-2	Sodium hydroxide 1.2 mol/l (1.2N)	633
1310-73-2	Sodium hydroxide 1 mol/l (1N)	633
1310-73-2	Sodium hydroxide 0.7 mol/l (N/1.4)	634
1310-73-2	Sodium hydroxide 0.5 mol/l (N/2)	634
1310-73-2	Sodium hydroxide 0.357 mol/l (0.357N)	635
1310-73-2	Sodium hydroxide 0.25 mol/l (N/4)	635
1310-73-2	Sodium hydroxide 0.2 mol/l (N/5)	635
1310-73-2	Sodium hydroxide 1/9 mol/l (N/9)	636
1310-73-2	Sodium hydroxide 0.1 mol/l (N/10)	636
1310-73-2	Sodium hydroxide 0.1 mol/l (0.1N) in ethanol	637
1310-73-2	Sodium hydroxide 0.01 mol/l (N/100)	637
1312-81-8	Lanthanum oxide	424
1313-13-9	Manganese (IV) oxide	449

1313-27-5	Molybdenum (VI) oxide	476
1313-60-6	Sodium peroxide	645
1313-84-4	Sodium sulfide nonahydrate	652
1313-84-4	Sodium sulfide nonahydrate solution	653
1314-13-2	Zinc oxide	742
1314-23-4	Zirconium (IV) oxide	745
1314-36-9	Yttrium (III) oxide	736
1314-56-3	Phosphorus pentoxide	531
1314-62-1	Vanadium (V) oxide	726
1314-98-3	Zinc sulfide	744
1317-36-8	Lead (II) oxide	429
1317-38-0	Copper (II) oxide	264
1320-06-5	Red for oils O	586
1321-14-8	Potassium guaiacolsulfonate	549
1324-76-1	Alkali blue 6B	137
1324-76-1	Alkali Blue 6B solution 2% in ethanol	137
1325-85-5	Victoria blue	727
1327-53-3	Arsenic trioxide solution	172
1330-20-7	Xylene, mix of isomers	732
1330-43-4	Sodium tetraborate anhydrous	654
1332-09-8	Pumice stone	580
1332-58-7	Kaolin washed	415
1333-82-0	Chromium (VI) oxide	253
1333-82-0	Chromium (VI) oxide solution	253
1335-32-6	Lead (II) acetate basic	426
1335-32-6	Lead (II) acetate basic solution	426
1336-21-6	Ammonia solution 32%	147
1336-21-6	Ammonia solution 30%	147
1336-21-6	Ammonia solution 28%	148
1336-21-6	Ammonia solution 25%	148
1336-21-6	Ammonia solution 20 - 22 %	149
1336-21-6	Ammonia solution 17%	150
1336-21-6	Ammonia solution 10%	150
1336-21-6	Ammonia solution 6N	151
1336-21-6	Ammonia solution diluted	151
1341-49-7	Ammonium hydrogen difluoride	158
1343-88-0	Florisil 100-200 mesh	334
1343-88-0	Florisil 60-100 mesh	334
1344-09-8	Sodium silicate	650
1344-28-1	Alumina white	138
1344-28-1	Aluminum oxide	142
1344-28-1	Aluminum oxide (acid)	142
1344-28-1	Aluminum oxide (basic)	142
1344-28-1	Aluminum oxide (neutral)	143
1344-28-1	Aluminum oxide activated	143
1393-92-6	Litmus	434
1400-62-0	Orcein	502
1401-55-4	Tannic acid	687
1455-13-6	Methanol-d1	460
1461-15-0	Fluorexon	335
1465-25-4	N-1-Naphtylethylenediamine dihydrochloride	482
1470-61-7	Silver diethyldithiocarbamate	603
1516-08-1	Ethanol-d6 anhydrous	319
1522-22-1	1,1,1-Trifluoroacetyltrifluoro-acetone	716
1592-23-0	Calcium stearate	231
1611-35-4	Xylenol orange	733
1633-05-2	Strontium carbonate	669
1634-04-4	tert-Butylmethylether	216
1643-19-2	Tetrabutylammonium bromide	691
1665-00-5	Dichloromethane-d2	286
1667-99-8	Chromazurol S	250
1668-00-4	Arsenazo III	171
1693-74-9	Tetrahydrofuran-d8	695
1733-12-6	o-Cresol red	266
1733-12-6	o-Cresol Red solution 0.2% in ethanol	267
1735-17-7	Cyclohexane-d12	271
1762-95-4	Ammonium thiocyanate	165
1762-95-4	Ammonium thiocyanate 0.1 mol/l (0.1N)	165
1762-95-4	Ammonium thiocyanate 0.01 mol/l (0.01N)	166
1787-61-7	Eriochrome black T	309
1829-00-1	Clayton's yellow	256
1849-29-2	Methanol-d3	460
1871-22-3	Tetrazolium blue	696
1934-21-0	Tartrazine	689
1936-15-8	Orange G	502
1945-77-3	Methylthymol blue sodium salt	471
2037-26-5	Toluene-d8	710
2052-49-5	Tetrabutylammonium hydroxide solution 0.1 mol/l (0.1N)	691
2052-49-5	Tetrabutylammonium hydroxide 0.1 mol/l (0.1N) in 2-propanol	691
2052-49-5	Tetrabutylammonium hydroxide solution 0.1 mol/l (0.1N) in methanol / propanol-2	692
2199-69-1	1,2-Dichlorobenzene-d4	280
2206-26-0	Acetonitrile-d3	132
2206-27-1	Dimethylsulphoxide-d6	299
2206-27-1	Dimethylsulphoxide-d6 + 0.03% TMS	300
2216-51-5	L-Menthol	451
2243-76-7	Alizarin yellow R	137
2303-01-7	m-Cresol purple	267
2321-07-5	Fluorescein	335
2338-05-8	Iron (III) citrate	406
2353-45-9	Fast green FCF	331
2386-53-0	1-Dodecanesulfonic acid sodium salt	304
2386-54-1	1-Butanesulfonic acid sodium salt	212
2538-85-4	Calcon	232
2650-17-1	Xylenecyanol	733
2832-45-3	1-Hexanesulphonic acid sodium salt	365
3012-65-5	Ammonium citrate dibasic	157
3012-65-5	Ammonium citrate solution 20%	157
3051-09-0	Murexide	480
3147-14-6	Calmagite	232
3164-29-2	Ammonium L(+)tartrate	164
3244-88-0	Fuchsin acid	342
3458-72-8	tri-Ammonium citrate	156
3564-18-9	Eriochromocyanine R	310
3682-35-7	2,4,6-Tri-(2-pyridyl)-s-triazine	719
3724-65-0	alpha-trans-Crotonic acid	267
3737-95-9	Calconcarbonic acid	232
4075-81-4	Calcium propionate	230
4196-99-0	Ponceau red BS	535
4197-25-5	Sudan black B	671
4472-41-7	n,n-Dimethylformamide-d7	297
4637-24-5	n,n-Dimethylformamide dimethylacetal	297
4717-96-8	4-Methyltetrahydropyran	471
5108-96-3	Pyrrolidine dithiocarbamic acid ammonium salt	583
5141-20-8	Light green	430
5144-89-8	o-Phenantroline monohydrate	523
5260-02-5	Zinc carbonate basic	740
5324-84-5	1-Octanesulphonic acid sodium salt	501
5329-14-6	Sulfamic acid	672
5341-61-7	Hydrazine dihydrochloride	369
5392-40-5	Citral	254
5614-37-9	Cyclopentyl methyl ether	272
5743-04-4	Cadmium acetate dihydrate	220
5743-26-0	Calcium acetate monohydrate	223
5743-47-5	Calcium lactate	228
5785-44-4	Calcium citrate tribasic tetrahydrate	226
5794-13-8	L(+)Asparagine	172
5808-22-0	Chromotropic acid disodium salt	254
5892-10-4	Bismuth(III) carbonate basic	192
5949-29-1	Citric acid monohydrate	255
5965-83-3	Sulfosalicylic acid	674
5968-11-6	Sodium carbonate monohy-drate	617
5970-45-6	Zinc acetate dihydrate	739
5970-45-6	Zinc acetate solution	739
5995-86-8	Gallic acid monohydrate	345
5996-10-1	D(+)Glucose monohydrate	348
6001-64-5	Chlorobutanol	245
6009-70-7	Ammonium oxalate monohy-drate	161
6009-70-7	Ammonium oxalate solution 4%	162
6018-89-9	Nickel (II) acetate tetrahydrate	486
6046-93-1	Copper (II) acetate hydrate	262
6080-56-4	Lead (II) acetate trihydrate	427
6100-05-6	Potassium citrate tribasic monohydrate	544
6100-19-2	Potassium tartrate	569
6104-59-2	Coomassie brilliant blue R 250	259
6106-21-4	Sodium succinate hexahydrate	651
6106-24-7	Sodium tartrate dihydrate	654
6131-90-4	Sodium acetate trihydrate	611
6132-02-1	Sodium carbonate decahydrate	616
6132-04-3	Sodium citrate tribasic dihydrate	620
6132-04-3	Sodium citrate tribasic dihydrate	621
6147-53-1	Cobalt (II) acetate tetrahydrate	257
6152-67-6	4-Diphenylaminesulfonic acid sodium salt	303
6153-56-6	Oxalic acid dihydrate	506
6156-78-1	Manganese (II) acetate tetrahydrate	448
6192-52-5	p-Toluenesulfonic acid	710
6226-79-5	Ponceau red S	535
6283-63-2	n,n-Diethyl-p-phenylenediami-ne sulfate	291
6303-21-5	Hypophosphorous acid 50%	390
6363-53-7	Maltose monohydrate	446
6381-59-5	Potassium sodium tartrate tetrahydrate	568
6381-92-6	Ethylenediaminetetraacetic acid disodium salt	324
6381-92-6	Ethylenediaminetetraacetic acid disodium salt 0.1 mol/l (0.2N)	325
6381-92-6	Ethylenediaminetetraacetic acid disodium salt 0.05 mol/l (0.1N)	325
6381-92-6	Ethylenediaminetetraacetic acid disodium salt 0.0178 mol/l (N/28)	326
6381-92-6	Ethylenediaminetetraacetic acid disodium salt 0.01 mol/l (0.02N)	326
6409-77-4	Nuclear fast red	499
6472-38-4	Morin	477
6484-52-2	Ammonium nitrate	161
6484-52-2	Ammonium nitrate 200 mg/L solution	161
6487-48-5	Potassium oxalate monohy-drate	562
6591-63-5	Quinidine sulfate	584
7021-09-2	alpha-Methoxyphenylacetic acid	461
7087-68-5	n,n-Diisopropylethylamine	293
7220-79-3	Methylene blue	464
7226-23-5	n,n'-Dimethylpropylene uree	298
7291-22-7	Pyridine-d5	581
7296-20-0	Neocuproine hydrochloride	483
7320-34-5	tetra-Potassium pyrophosphate	567
7429-90-5	Aluminum, powder	139
7439-89-6	Iron, powder	401
7439-89-6	Iron, reduced by hydrogen	401

7439-92-1	Lead	426
7439-95-4	Magnesium, powder	438
7439-95-4	Magnesium, ribbon	438
7439-95-4	Magnesium, turnings	438
7439-96-5	Manganese electrolytic	447
7440-02-0	Nickel, powder	486
7440-22-4	Silver, sheet	602
7440-22-4	Silver, wool	602
7440-23-5	Sodium, metallic	610
7440-31-5	Tin, powder	703
7440-36-0	Antimony, powder	168
7440-44-0	Charcoal activated	241
7440-44-0	Charcoal decolorizing	241
7440-44-0	Charcoal vegetable	242
7440-50-8	Copper electrolytic rebaked, sheet	261
7440-50-8	Copper electrolytic, turnings	261
7440-50-8	Copper electrolytic, wire	261
7440-50-8	Copper reduced, powder	261
7440-66-6	Zinc standard solution	737
7440-66-6	Zinc, foil	738
7440-66-6	Zinc, granular	738
7440-66-6	Zinc, powder	739
7440-66-6	Zinc, activated	739
7440-70-2	Calcium standard solution	221
7446-08-4	Selenium dioxide	597
7446-14-2	Lead (II) sulfate	429
7446-19-7	Zinc sulfate monohydrate	743
7446-20-0	Zinc sulfate heptahydrate	743
7446-20-0	Zinc sulfate 0.1 mol/l (0.2N)	743
7446-20-0	Zinc sulfate 0.05 mol/l (0.05N)	744
7446-70-0	Aluminum chloride anhydrous	140
7447-40-7	Potassium chloride	540
7447-40-7	Potassium chloride 25g/l in HCl	540
7447-40-7	Potassium chloride 12g/l	541
7447-40-7	Potassium chloride 3.5 mol/l (3.5N)	541
7447-40-7	Potassium chloride 3.5 mol/l (3.5N) + silver chloride	541
7447-40-7	Potassium chloride 3 mol/l (3N)	541
7447-40-7	Potassium chloride 3 mol/l (3N) water-glycerol solution	542
7447-40-7	Potassium chloride 3 mol/l (3N) + silver chloride	542
7447-40-7	Potassium chloride 1 mol/l (1N)	542
7447-40-7	Potassium chloride 0.01 mol/l (0.01N)	542
7447-40-7	Potassium chloride saturated solution	543
7447-40-7	Potassium chloride solution	543
7447-41-8	Lithium chloride	432
7487-88-9	Magnesium sulfate anhydrous	443
7487-94-7	Mercury (II) chloride	452
7488-55-3	Tin (II) sulfate	704
7553-56-2	Iodine resublimed	397
7553-56-2	Iodine	397
7553-56-2	Iodine 0.5 mol/l (1N)	397
7553-56-2	Iodine 0.05 mol/l (0.1N)	398
7553-56-2	Iodine 0.01 mol/l (0.02N)	398
7553-56-2	Iodine 0.005 mol/l (0.01N)	398
7558-79-4	Sodium phosphate dibasic anhydrous	646
7558-79-4	Sodium phosphate dibasic	647
7580-67-8	Lithium hydride	433
7601-90-3	Perchloric acid 65-71%	515
7601-90-3	Perchloric acid 65%	515
7601-90-3	Perchloric acid 60%	516
7631-86-9	Glass wool	348
7631-86-9	Silica gel 60A 6 - 35µ	597
7631-86-9	Silica gel 60A 20 - 45µ	598
7631-86-9	Silica gel 60A 35 - 70µ	598
7631-86-9	Silica gel 60A 40 - 63µ	598
7631-86-9	Silica gel 60A 70 - 200µ	599
7631-86-9	Silica gel 60A 0,06÷0,20 mm	599
7631-86-9	Silica gel granular	599
7631-86-9	Silica gel granular with indicator cobalt free	600
7631-99-4	Sodium nitrate	642
7632-00-0	Sodium nitrite	642
7632-00-0	Sodium nitrite 0.1 mol/l (0.1N)	643
7632-00-0	Sodium nitrite solution 500 g/l	643
7646-85-7	Zinc chloride anhydrous	740
7646-85-7	Zinc chloride solution 60%	740
7646-85-7	Zinc chloride solution, iodinated	741
7646-93-7	Potassium bisulfate	537
7647-01-0	Hydrochloric acid 37%	370
7647-01-0	Hydrochloric acid 34-37%	372
7647-01-0	Hydrochloric acid 32-35%	372
7647-01-0	Hydrochloric acid 32% (20°Bé)	373
7647-01-0	Hydrochloric acid 32%	373
7647-01-0	Hydrochloric acid 29 - 31 %	373
7647-01-0	Hydrochloric acid 26%	374
7647-01-0	Hydrochloric acid 25% w/v	374
7647-01-0	Hydrochloric acid 23%	374
7647-01-0	Hydrochloric acid 20%	374
7647-01-0	Hydrochloric acid 12%	375
7647-01-0	Hydrochloric acid 10%	375
7647-01-0	Hydrochloric acid 8%	375
7647-01-0	Hydrochloric acid 5%	376
7647-01-0	Hydrochloric acid 1.128% (m/v)	376
7647-01-0	Hydrochloric acid 6 mol/l (6N)	376
7647-01-0	Hydrochloric acid 5 mol/l (5N)	377
7647-01-0	Hydrochloric acid 4 mol/l (4N)	377
7647-01-0	Hydrochloric acid 3 mol/l (3N)	378
7647-01-0	Hydrochloric acid 2 mol/l (2N)	378
7647-01-0	Hydrochloric acid 1 mol/l (1N)	378
7647-01-0	Hydrochloric acid 0.714 mol/l (N/1.4)	379
7647-01-0	Hydrochloric acid 0.5 mol/l (0.5N)	380
7647-01-0	Hydrochloric acid 0.2 mol/l (0.2N)	380
7647-01-0	Hydrochloric acid 0.2 mol/l (0.2N) in propanol-2	380
7647-01-0	Hydrochloric acid 0.1 mol/l (0.1N)	381
7647-01-0	Hydrochloric acid 0.1 mol/l (0.1N) in ethanol	381
7647-01-0	Hydrochloric acid 0.1 mol/l (0.1N) in propanol-2	382
7647-01-0	Hydrochloric acid 0.0714 mol/l (N/14)	382
7647-01-0	Hydrochloric acid 0.05 mol/l (0.05N)	382
7647-01-0	Hydrochloric acid 0.02 mol/l (0.02N)	382
7647-01-0	Hydrochloric acid 0.01 mol/l (0.01N)	383
7647-01-0	Hydrochloric acid, dilute	383
7647-01-0	Hydrochloric acid, brominated	384
7647-10-1	Palladium (II) chloride	508
7647-14-5	Ausilab 260	174
7647-14-5	Sodium chloride	618
7647-14-5	Sodium chloride 5 mol/l (5N)	619
7647-14-5	Sodium chloride 0.1 mol/l (0,1N)	620
7647-15-6	Sodium bromide	615
7647-17-8	Cesium chloride	240
7647-17-8	Cesium chloride 25 g/l solution	240
7664-38-2	Orthophosphoric acid 99%	503
7664-38-2	Orthophosphoric acid 85%	503
7664-38-2	Orthophosphoric acid 75%	504
7664-38-2	Orthophosphoric acid 10%	504
7664-39-3	Hydrofluoric acid 50%	384
7664-39-3	Hydrofluoric acid 47-51%	385
7664-39-3	Hydrofluoric acid 39.5%	386
7664-93-9	Sulfuric acid 98%	675
7664-93-9	Sulfuric acid 96%	675
7664-93-9	Sulfuric acid 96% (66°Be)	677
7664-93-9	Sulfuric acid 95 - 97 %	677
7664-93-9	Sulfuric acid 93-98%	678
7664-93-9	Sulfuric acid 90%	678
7664-93-9	Sulfuric acid 72%	679
7664-93-9	Sulfuric acid 69%	679
7664-93-9	Sulfuric acid 50%	679
7664-93-9	Sulfuric acid 35% (30°Be)	679
7664-93-9	Sulfuric acid 25 %	680
7664-93-9	Sulfuric acid 20%	680
7664-93-9	Sulfuric acid 10% v/v	680
7664-93-9	Sulfuric acid 4 mol/l (8N)	680
7664-93-9	Sulfuric acid 2.5 mol/l (5N)	681
7664-93-9	Sulfuric acid 1 mol/l (2N)	681
7664-93-9	Sulfuric acid 0.5 mol/l (1N)	681
7664-93-9	Sulfuric acid 0.33 mol/l (2N/3)	682
7664-93-9	Sulfuric acid 0.26 mol/l (0.52N)	682
7664-93-9	Sulfuric acid 0.25 mol/l (0.5N)	682
7664-93-9	Sulfuric acid 0.166 mol/l (0.333N)	682
7664-93-9	Sulfuric acid 0.13 mol/l (0.26N)	683
7664-93-9	Sulfuric acid 0.125 mol/l (0.25N)	683
7664-93-9	Sulfuric acid 0.1 mol/l (0.2N)	683
7664-93-9	Sulfuric acid 0.05 mol/l (0.1N)	683
7664-93-9	Sulfuric acid 0.025 mol/l (0.05N)	684
7664-93-9	Sulfuric acid 0.02 mol/l (0.04N)	684
7664-93-9	Sulfuric acid 0.01 mol/l (0.02N)	684
7664-93-9	Sulfuric acid 0.005 mol/l (0.01N)	684
7664-93-9	Sulfuric acid 0.0025 mol/l (0.005N)	685
7664-93-9	Sulfuric acid with 10 g/L Ag2SO4	685
7664-93-9	Sulfuric acid with 6.6 g/l Ag2SO4	685
7664-93-9	Sulfuric acid d=1,820	686
7664-93-9	Sulfuric acid, dilute	686
7681-11-0	Potassium iodide	559
7681-11-0	Potassium iodide solution 10%	559
7681-11-0	Potassium iodide solution 3.9%	559
7681-11-0	Potassium iodide solution	560
7681-49-4	Sodium fluoride	622
7681-52-9	Sodium hypochlorite solution in water	638
7681-52-9	Sodium hypochlorite solution 12.5%	638
7681-57-4	Sodium metabisulfite	640
7681-65-4	Copper (I) iodide	263
7681-82-5	Sodium iodide	639
7697-37-2	Nitric acid fuming 90%	491
7697-37-2	Nitric acid 69.5%	491
7697-37-2	Nitric acid 67-70%	492
7697-37-2	Nitric acid 67-69%	493
7697-37-2	Nitric acid 67.5% (42Be)	493
7697-37-2	Nitric acid 65%	494
7697-37-2	Nitric acid 18%	495
7697-37-2	Nitric acid 8 mol/l (8N)	495
7697-37-2	Nitric acid 7 mol/l (7N)	495
7697-37-2	Nitric acid 2 mol/l (2N)	496
7697-37-2	Nitric acid 1 mol/l (1N)	496
7697-37-2	Nitric acid 0.1 mol/l (0.1N)	496
7697-37-2	Nitric acid, dilute	496
7697-37-2	Water deionized and acidified	730
7698-05-7	Hydrochloric acid-d 1 mol/l	383
7698-05-7	Hydrochloric acid-d 20%	383
7704-34-9	Sulfur sublimed and washed	675
7705-08-0	Iron (III) chloride anhydrous sublimed	405
7722-64-7	Potassium permanganate	562
7722-64-7	Potassium permanganate 0.2 mol/l (1N)	563
7722-64-7	Potassium permanganate 0.02 mol/l (0.1N)	563

7722-64-7	Potassium permanganate 0.002 mol/l (0.01N)	564
7722-64-7	Potassium permanganate solution 3%	564
7722-64-7	Potassium permanganate and phosphoric acid solution	564
7722-76-1	di-Ammonium hydrogen phosphate 25 mg/L solution	159
7722-76-1	Ammonium phosphate monobasic	163
7722-84-1	Hydrogen peroxide solution 40% w/v	386
7722-84-1	Hydrogen peroxide solution 30-32%	387
7722-84-1	Hydrogen peroxide solution 30%	387
7722-84-1	Hydrogen peroxide solution 3.5% w/v	388
7722-84-1	Hydrogen peroxide solution 3%	389
7726-95-6	Bromine solution	198
7726-95-6	Bromine water	198
7727-21-1	Potassium persulfate	564
7727-43-7	Barium sulfate	184
7727-54-0	Ammonium persulfate	162
7727-73-3	Sodium sulfate decahydrate	652
7732-18-5	Water	728
7732-18-5	Water + 0.1% v/v formic acid	730
7732-18-5	Water purified	731
7757-79-1	Potassium nitrate	561
7757-79-1	Potassium nitrate 1 mol/l (1N)	561
7757-82-6	Sodium sulfate anhydrous	651
7757-83-7	Sodium sulfite anhydrous	653
7758-01-2	Potassium bromate	538
7758-02-3	Potassium bromide	539
7758-05-6	Potassium Iodate	558
7758-05-6	Potassium iodate 0.05 mol/l	558
7758-05-6	Potassium iodate 0.0167 mol/l (0.1N)	558
7758-05-6	Potassium iodate 0.00167 mol/l (0.01N)	558
7758-09-0	Potassium nitrite	561
7758-11-4	Potassium phosphate dibasic anhydrous	565
7758-23-8	Calcium phosphate monobasic monohydrate	230
7758-87-4	Calcium phosphate tribasic	230
7758-89-6	Copper (I) chloride	262
7758-89-6	Copper (I) chloride solution 7% in ammonia	263
7758-98-7	Copper (II) sulfate anhydrous	265
7758-98-7	Copper (II) sulfate solution 12.5%	266
7758-99-8	Copper (II) sulfate pentahydrate	265
7759-02-6	Strontium sulfate	670
7761-88-8	Silver nitrate	604
7761-88-8	Silver nitrate solution 5%	604
7761-88-8	Silver nitrate solution 2.9075%	604
7761-88-8	Silver nitrate 1 mol/l (1N)	605
7761-88-8	Silver nitrate 0.5 mol/l (0.5N)	605
7761-88-8	Silver nitrate 0.1 mol/l (0.1N)	605
7761-88-8	Silver nitrate 0.05 mol/l (0.05N)	606
7761-88-8	Silver nitrate 0.03 mol/l (0.03N)	606
7761-88-8	Silver nitrate 0.025 mol/l (0.025N)	606
7761-88-8	Silver nitrate 0.01 mol/l (N/100)	606
7761-88-8	Silver nitrate solution	607
7772-98-7	Sodium thiosulfate anhydrous	655
7772-99-8	Tin (II) chloride solution	703
7772-99-8	Tin (II) chloride solution 10%	704
7773-06-0	Ammonium sulfamate	163
7774-29-0	Mercury (II) iodide	453
7774-34-7	Calcium chloride hexahydrate	225
7775-14-6	Sodium hydrosulfite	625
7775-27-1	Sodium persulfate	645
7775-27-1	Sodium persulfate 1 mol/l	645
7778-50-9	Potassium dichromate	544
7778-50-9	Potassium dichromate 0.0417 mol/l (0.25N)	545
7778-50-9	Potassium dichromate 0.04 mol/l (0.24N) in 80 g/l HgSO4	545
7778-50-9	Potassium dichromate 0.0167 mol/l (0.1 N)	545
7778-50-9	Potassium dichromate solution 0.5%	546
7778-50-9	Potassium dichromate solution 106 g/l	546
7778-50-9	Potassium dichromate 0.2829 g/l	546
7778-50-9	Potassium dichromate 0.1414 g/l	546
7778-77-0	Potassium phosphate monobasic	566
7778-77-0	Potassium phosphate monobasic 0.2 mol/l (0.2N)	566
7778-80-5	Potassium sulfate	568
7782-49-2	Selenium, powder	597
7782-50-5	Water chlorine	730
7782-61-8	Iron (III) nitrate nonahydrate	406
7782-63-0	Iron (II) sulfate heptahydrate	407
7782-75-4	Magnesium hydrogen phosphate trihydrate	440
7783-00-8	Selenous acid	597
7783-03-1	Tungstic acid	723
7783-20-2	Ammonium sulfate	164
7783-28-0	Ammonium phosphate dibasic	162
7783-35-9	Mercury (II) sulfate	453
7783-83-7	Iron (III) ammonium sulfate dodecahydrate	402
7783-85-9	Iron (II) ammonium sulfate hexahydrate	403
7783-85-9	Iron (II) ammonium sulfate 0.12N	404
7783-85-9	Iron (II) ammonium sulfate 0.1N	404
7783-90-6	Silver chloride	603
7784-13-6	Aluminum chloride hexahydrate	140
7784-24-9	Aluminum potassium sulfate dodecahydrate	143
7784-26-1	Aluminum ammonium sulfate dodecahydrate	139
7784-27-2	Aluminum nitrate nonahydrate	141
7784-31-8	Aluminum sulfate	144
7784-46-5	Sodium arsenite 0.1 mol/l (0.2N)	612
7784-46-5	Sodium arsenite 0.05 mol/l (0.1N)	613
7788-99-0	Chromium (III) potassium sulfate dodecahydrate	253
7789-00-6	Potassium chromate	543
7789-00-6	Potassium chromate 5% solution	543
7789-00-6	Potassium dichromate - Sulfuric acid solution	545
7789-02-8	Chromium (III) nitrate nonahydrate	252
7789-20-0	Deuterium oxide-d	275
7789-20-0	Deuterium oxide-d + 0.01% DMSO	276
7789-20-0	Deuterium oxide-d + 0.5% TSP d4	276
7789-20-0	Deuterium oxide-d + 0.03% TSP d4	276
7789-23-3	Potassium fluoride	548
7789-75-5	Calcium fluoride	226
7789-77-7	Calcium phosphate dibasic dihydrate	229
7790-21-8	Potassium periodate	562
7790-28-5	Sodium metaperiodate	640
7790-58-1	Potassium tellurite	570
7790-62-7	Potassium pyrosulphate	567
7790-69-4	Lithium nitrate	433
7791-07-3	Sodium perchlorate monohydrate	644
7791-13-1	Cobalt (II) chloride hexahydrate	258
7791-18-6	Magnesium chloride hexahydrate	439
7791-20-0	Nickel (II) chloride hexahydrate	487
8001-79-4	Castor oil	236
8002-27-9	Oil of cedar wood	501
8002-43-5	Lecithin of soya	430
8005-03-6	Nigrosine	489
8005-78-5	Bismarck brown R	190
8006-28-8	Soda lime	608
8006-54-0	Lanolin anhydrous	423
8007-47-4	Canada balsam	233
8007-69-0	Oil refined of almonds	501
8009-03-8	Paraffin white soft	511
8012-95-1	Paraffin oil	510
8028-48-6	Histolemon	367
8047-15-2	Saponin	594
8049-11-4	Devarda's alloy	276
9000-01-5	Gum arabic	354
9000-70-8	Gelatine	346
9000-71-9	Casein	235
9002-93-1	Triton© X100 solution	721
9003-39-8	Polyvinylpyrrolidone	535
9004-34-6	Cellulose, powder	236
9005-25-8	Rice starch	589
9005-38-3	Sodium alginate	611
9005-80-5	Inulin	396
9005-84-9	Maize starch	444
9005-84-9	Starch paste solution 1%	666
9005-84-9	Starch soluble	666
9006-59-1	Albumin from eggs powder	135
9006-59-1	Albumin from eggs, dried	135
9016-45-9	Nonylphenol ethoxylated 10 ETO	499
10022-31-8	Barium nitrate	182
10022-68-1	Cadmium nitrate tetrahydrate	220
10025-69-1	Tin (II) chloride dihydrate	703
10025-70-4	Strontium chloride hexahydrate	669
10025-77-1	Iron (III) chloride hexahydrate	405
10025-91-9	Antimony trichloride	170
10026-06-9	Tin (IV) chloride pentahydrate	704
10026-22-9	Cobalt (II) nitrate hexahydrate	258
10026-24-1	Cobalt (II) sulfate heptahydrate	258
10028-24-7	Sodium phosphate dibasic dihydrate	646
10030-85-0	L(+)Rhamnose	587
10031-43-3	Copper (II) nitrate trihydrate	264
10034-76-1	Calcium sulfate hemihydrate	231
10034-81-8	Magnesium perchlorate	442
10034-85-2	Hydriodic acid 57%	369
10034-88-5	Sodium bisulfate monohydrate	614
10034-96-5	Manganese (II) sulfate monohydrate	449
10034-99-8	Magnesium sulfate heptahydrate	443
10035-04-8	Calcium chloride dihydrate	225
10035-06-0	Bismuth(III) nitrate pentahydrate	192
10035-10-6	Hydrobromic acid 48%	370
10039-26-6	Lactose	422
10039-32-4	Sodium phosphate dibasic dodecahydrate	647
10039-54-0	Hydroxylamine sulphate	390
10039-56-2	Sodium hypophosphite	639
10042-76-9	Strontium nitrate	669
10043-35-3	Boric acid	193
10043-35-3	Boric Acid 20g/l	194
10043-35-3	Boric acid 20 g/l with indicator	194
10043-35-3	Boric acid 4%	194
10043-35-3	Boric acid 4 % with indicator	194
10043-35-3	Boric acid 3%	195
10043-35-3	Boric acid 1% with indicator	195
10043-52-4	Calcium chloride anhydrous	224

10049-21-5	Sodium phosphate monobasic monohydrate	648
10060-12-5	Chromium (III) chloride hexahydrate	252
10099-58-8	Lanthanum chloride 25 g/L solution	424
10099-74-8	Lead (II) nitrate	428
10101-41-4	Calcium sulfate dihydrate	231
10101-89-0	Sodium phosphate tribasic dodecahydrate	649
10101-97-0	Nickel (II) sulfate hexahydrate	488
10102-05-3	Palladium nitrate 2 g/l solution	509
10102-17-7	Sodium thiosulfate pentahydrate	656
10102-17-7	Sodium thiosulfate 1 mol/l (1N)	656
10102-17-7	Sodium thiosulfate 0.5 mol/l (0.5N)	657
10102-17-7	Sodium thiosulfate 0.2 mol/l (0.2N)	657
10102-17-7	Sodium thiosulfate 0.1 mol/l (0.1N)	657
10102-17-7	Sodium thiosulfate 0.0394 mol/l (0.0394N)	658
10102-17-7	Sodium thiosulfate 0.01 mol/l (0.01N)	658
10102-25-7	Lithium sulfate monohydrate	434
10102-40-6	Sodium molybdate dihydrate	641
10112-91-1	Mercury (I) chloride	452
10124-56-8	Sodium hexametaphosphate	624
10125-13-0	Copper (II) chloride dihydrate	263
10196-18-6	Zinc nitrate hexahydrate	741
10213-10-2	Sodium tungstate dihydrate	658
10213-10-2	Sodium tungstate solution 10%	658
10277-43-7	Lanthanum nitrate hexahydrate	424
10294-26-5	Silver sulfate	607
10294-26-5	Silver sulfate solution 0.7% in sulfuric acid	608
10294-39-0	Barium perchlorate trihydrate	183
10294-41-4	Cerium (III) nitrate hexahydrate	238
10294-42-5	Cerium (IV) sulfate	239
10294-42-5	Cerium (IV) sulfate 0.1 mol/l	239
10294-54-9	Cesium sulfate	240
10326-27-9	Barium chloride dihydrate	180
10326-27-9	Barium chloride solution 10%	180
10326-27-9	Barium chloride solution 0.14%	180
10326-27-9	Barium chloride 0.1 mol/l (0.2N)	181
10326-27-9	Barium chloride 30g/L	181
10361-03-2	Sodium metaphosphate	641
10361-29-2	Ammonium carbonate	154
10361-29-2	Ammonium carbonate solution 20%	154
10361-29-2	Ammonium carbonate solution 158 g/l	155
10361-37-2	Barium chloride solution 61 g/l	181
10378-47-9	Cerium (IV) ammonium sulfate dihydrate	238
10378-47-9	Cerium (IV) ammonium sulfate 0.1 mol/l	238
10378-47-9	Cerium (IV) ammonium sulfate 0.01 mol/l	238
10416-59-8	n,o-Bis(trimethylsilyl)acetamide	190
10450-60-9	Periodic acid	517
10486-00-7	Sodium perborate tetrahydrate	644
11024-24-1	Digitonin	292
11138-49-1	Sodium aluminate	612
12003-78-0	Raney's alloy	585
12007-58-8	Ammonium tetraborate trihydrate	164
12007-60-2	Lithium tetraborate anhydrous	434
12027-06-4	Ammonium iodide	159
12027-43-9	Silicotungstic acid	601
12029-98-0	Iodopentoxide	399
12054-85-2	Ammonium molybdate tetrahydrate	159
12054-85-2	Ammonium molybdate solution 5%	160
12054-85-2	Ammonium molybdate solution 2.5% in nitric acid	160
12055-62-8	Holmium oxide	368
12069-69-1	Copper (II) carbonate (basic)	262
12124-97-9	Ammonium bromide	153
12125-01-8	Ammonium fluoride	157
12125-02-9	Ammonium chloride	155
12125-02-9	Ammonium chloride solution 10%	156
12208-13-8	Potassium pyroantimonate acid	566
12208-13-8	Potassium pyroantimonate solution	567
12230-71-6	Barium hydroxide octahydrate	181
12230-71-6	Barium hydroxide solution 5%	182
12230-71-6	Barium hydroxide solution 47.3 g/l	182
12501-23-4	Phosphotungstic acid	532
13011-54-6	Sodium ammonium hydrogen phosphate	612
13235-36-4	Ethylenediaminetetraacetic acid tetrasodium salt tetrahydrate	327
13408-09-8	Sodium glycerophosphate pentahydrate	624
13419-61-9	1-Decanesulfonic acid sodium salt	273
13435-12-6	n-Trimethylsilylacetamide	718
13446-18-9	Magnesium nitrate hexahydrate	441
13446-34-9	Manganese (II) chloride tetrahydrate	448
13455-21-5	Potassium fluoride dihydrate	549
13455-24-8	Potassium hydrogen iodate	550
13463-67-7	Titanium dioxide	706
13465-95-7	Barium perchlorate 0.05 mol/l	183
13465-95-7	Barium perchlorate 0.025 mol/l	183
13472-35-0	Sodium phosphate monobasic dihydrate	648
13472-36-1	Sodium pyrophosphate decahydrate	650
13477-34-4	Calcium nitrate tetrahydrate	228
13478-00-7	Nickel (II) nitrate hexahydrate	487
13478-10-9	Iron (II) chloride tetrahydrate	404
13517-23-2	Sodium o-Phosphite pentahydrate	649
13573-16-5	Reinecke salt	587
13596-46-8	Cobalt (II) ammonium sulfate hexahydrate	257
13598-36-2	Phosphonic acid	530
13600-98-1	Sodium cobalt nitrite	621
13746-66-2	Potassium ferricyanide	547
13746-66-2	Potassium ferricyanide solution 11%	547
13755-38-9	Sodium nitroprusside dihydrate	643
14014-06-3	Sodium hydroxide-d 1 30%	637
14014-06-3	Sodium hydroxide-d 1 mol/l	637
14017-54-0	Holmium perchlorate in solution	368
14335-33-2	Orthophosphoric acid-d3 85% in D2O	504
14452-57-4	Magnesium peroxide	442
14459-95-1	Potassium ferrocyanide trihydrate	547
14459-95-1	Potassium ferrocyanide solution 10%	548
14459-95-1	Potassium ferrocyanide solution 53 g/l	548
14519-13-2	Strontium bromide monohydrate	668
14533-63-2	1-Propanesulfonic acid sodium salt	577
14552-35-3	Cupriethylenediamine solution	269
14634-91-4	Ferroin 0.025 mol/l solution	332
14634-91-4	o-Phenantroline-Iron (II) sulphate solution in sulphuric acid	523
14726-36-4	Zinc dibenzyldithiocarbamate	741
14807-96-6	Talc	687
14808-60-7	Quartz granular	584
14808-60-7	Sand of Fontainebleau	593
14808-60-7	Sand purified	594
14808-60-7	Silicon dioxide	601
14985-18-3	Zirconyl nitrate	745
15191-80-7	Copper (II) pyrophosphate	264
15244-10-7	Iron (III) sulfate	407
15244-38-9	Chromium (III) sulfate	254
15699-18-0	Nickel (II) ammonium sulfate hexahydrate	486
15708-48-2	Ethylenediaminetetraacetic acid potassium and magnesium salt dihydrate	326
16423-68-0	Erythrosin extra B	310
16674-78-5	Magnesium acetate tetrahydrate	438
16731-55-8	Potassium metabisulfite	560
16774-21-3	Cerium (IV) ammonium nitrate	237
16774-21-3	Cerium (IV) ammonium nitrate 0.1 mol/l	237
16774-21-3	Cerium (IV) ammonium nitrate 0.01 mol/l	237
16788-57-1	Potassium phosphate dibasic trihydrate	565
16893-85-9	Sodium hexafluorosilicate	624
16919-27-0	Potassium fluorotitanate	549
16921-30-5	di-Potassium hexachloroplatinate	549
16940-66-2	Sodium borohydride	615
16961-25-4	Gold(III) chloride trihydrate	353
17199-29-0	L(+)Mandelic acid	446
17372-87-1	Eosin Y	308
17372-87-1	Eosin Y 1% solution acqueous	308
17372-87-1	Eosin Y 0.5% solution alcoholic	308
17629-30-0	Raffinose	585
18016-24-5	Calcium gluconate	227
18472-87-2	Phloxin B	528
18497-13-7	Hexachloroplatinic acid hexahydrate	360
20624-25-3	Sodium diethyldithiocarbamate trihydrate	622
20667-12-3	Silver oxide	607
20816-12-0	Osmium (VIII) oxide	505
21368-68-3	Camphor synthetic	233
21645-51-2	Aluminum hydroxide	141
21666-38-6	Hexane-d14	365
21908-53-2	Mercury (II) oxide red	453
22767-49-3	1-Pentanesulphonic acid sodium salt	514
22767-50-6	1-Heptanesulphonic acid sodium salt	359
24493-21-8	3-Trimethylsilylpropionic acid sodium salt-d4	718
24634-61-5	Potassium sorbate	568
25102-12-9	Ethylenediaminetetraacetic acid dipotassium salt dihydrate	324
25155-30-0	Dodecylbenzenesulphonic acid sodium salt	305
25561-30-2	n,o-Bis(trimethylsilyl)-trifluoroacetamide	190
25895-60-7	Sodium cyanoborohydride	621
26628-22-8	Sodium azide	613
28300-74-5	Antimony potassium tartrate	169
28631-66-5	Aniline blue soluble in water	167
28983-56-4	Methyl blue	463
30525-89-4	Paraformaldehyde	511
32503-27-8	Tetrabutylammonium bisulfate	691
33685-54-0	Tetrachloroethane-d2	692
33864-99-2	Alcian blue 8GX	136
35658-65-2	Cadmium chloride monohydrate	220

36653-82-4	Cetyl alcohol	241
37247-10-2	Azure II	176
37267-86-0	Metaphosphoric acid	454
38894-11-0	3-Methyl-2-benzothiazolinone hydrazone hydrochloride	463
39409-82-0	Magnesium carbonate basic	439
39430-27-8	Nickel (II) carbonate basic	487
51429-74-4	Phosphomolybdic acid	530
51580-86-0	Sodium dichloroisocyanurate dihydrate	622
52746-49-3	Bathophenanthroline sulfonate sodium salt	184
53092-85-6	Azure II eosin	177
62625-22-3	Zincon	744
63449-41-2	Benzalkonium chloride	185
64742-47-8	Kerosene	419
64742-49-0	Petroleum benzin E	518
64742-49-0	Petroleum ether 100 - 140°C	518
64742-49-0	Petroleum ether 80 - 120°C	518
64742-49-0	Petroleum ether 80 - 100°C	519
64742-49-0	Petroleum ether 75 - 120°C	519
64742-49-0	Petroleum ether 60 - 80°C	519
64742-49-0	Petroleum ether 55 - 85°C	520
64742-49-0	Petroleum ether 40 - 70°C	520
64742-49-0	Petroleum ether 40 - 65°C	520
64742-49-0	Petroleum ether 40 - 60°C	521
64771-72-8	Petroleum	518
68551-19-9	Solvent Plus	659
75006-64-3	Diacetyldioxime sodium salt	277
75881-23-1	Alcian Blue 8GS 1%	135
77253-67-9	Trifluoroethanol-d2	717
81029-05-2	Brillant cresyl blue	196
90622-57-4	Isopar G	412
91053-39-3	Kieselguhr composed	419
92045-76-6	Paraffin 56-58°C - Erbaplast (without DMSO)	510
92045-76-6	Paraffin 56°C-58°C - Erbaplast (with DMSO)	510
93763-70-3	Dicalite 4158	278
101316-46-5	Petroleum ether 35 - 60°C	521
101316-46-5	Petroleum ether 30 - 50°C	522
101316-46-5	Petroleum ether 30 - 40°C	523
206752-32-1	Azomethine H	176
207300-91-2	1-Hexanesulphonic acid sodium salt monohydrate	366
207596-29-0	1-Octanesulfonic acid sodium salt monohydrate	501
207605-40-1	1-Pentanesulphonic acid sodium salt monohydrate	514

A

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p-Acetilfenetidina 133
Acetil-2-fenilidrazina 134
Acetofenone 133
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Acetonitrile + 0.1% v/v acido trifluoroacetico 132
Acetonitrile-d3 132
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Acido acetico 96% 121
Acido acetico 80% 121
Acido acetico 45% 122
Acido acetico 30% 122
Acido acetico 28% 122
Acido acetico 27% 122
Acido acetico 25% 123
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Acido acetico 1 mol/l (1N) 124
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Acido cloridrico 32% 373
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Acido cloridrico 26% 374
Acido cloridrico 25% p/v 374
Acido cloridrico 23% 374
Acido cloridrico 20% 374
Acido cloridrico 12% 375
Acido cloridrico 10% 375
Acido cloridrico 8% 375
Acido cloridrico 5% 376
Acido cloridrico 1.128% (m/v) 376
Acido cloridrico 6 mol/l (6N) 376
Acido cloridrico 5 mol/l (5N) 377
Acido cloridrico 4 mol/l (4N) 377
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Acido cloridrico 0.1 mol/l (0.1N) in etanolo 381
Acido cloridrico 0.1 mol/l (0.1N) in isopropanolo 382
Acido cloridrico 0.0714 mol/l (N/14) 382
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Acido 1-eptansolfonico sale sodico 359
Acido esacloroplatinico esaidrato 360
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Acido fenilacetico 526
Acido fluoridrico 50% 384
Acido fluoridrico 47-51% 385
Acido fluoridrico 39,5% 386
Acido formico 99% 340
Acido formico 85% 341
Acido formico-d 342
Acido fosfomolibdico 530
Acido fosfonico 530
Acido fosforico 99% 503
Acido fosforico 85% 503
Acido fosforico 75% 504
Acido fosforico 10% 504
Acido fosforico-d3 85% in D2O 504
Acido ipofosforoso 50% 390
Acido fosfosolforico 532
Acido fosfotungstico 532
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Acido fumarico 343
Acido gallico monoidrato 345
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