



# Chemicals



**CARLO ERBA**

REAGENTS

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## [www.carloerbareagents.com](http://www.carloerbareagents.com)

Visit our website to:

Consult our on-line catalogue (research by CAS, name of products, product codes, synonym)  
with updated specifications,

Download updated MSDS and certificate of analysis,

Consult our sales conditions,

Make a request for Tailor made products, special prices, technical information



## CARLO ERBA Reagents

With dedication, competence and experience, CARLO ERBA Reagents strives to be the right “partner in choices” offering products of certified quality to professionals involved with Research, Healthcare and Industry.



# PRODUCTION

PRODUZIONE / PRODUCTION / PRODUCCIÓN



CARLO ERBA Reagents offers high-quality products and services to the market through cutting-edge manufacturing sites, high-level quality control labs and efficient logistics. Reactors, distillation columns, storage tanks, automated packaging and clean rooms are just a few among many technological solutions catering to a wide variety of market needs.

Qualified personnel, strict process control and standardized operational procedures are the key criteria underlying CARLO ERBA Reagents' industrial activities. Staff safety, environmental protection and a sustainable environmental footprint coupled with premium quality products are the strategic guidelines followed by CARLO ERBA Reagents.

CARLO ERBA Reagents garantisce al mercato qualità e servizio grazie ai propri moderni e sofisticati impianti di produzione, laboratori di controllo qualità di primo livello ed un'efficiente logistica per la distribuzione.

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 richieste del mercato. Personale qualificato, controlli di processo rigidi e procedure operative standardizzate, sono i criteri fondamentali che guidano le attività industriali di CARLO ERBA Reagents. Il rispetto della sicurezza di tutti gli operatori, la salvaguardia dell'ambiente e una visione di sostenibilità di impatto ambientale, affiancati alla qualità dei prodotti, sono le linee guida strategiche di CARLO ERBA Reagents.



**A**vec ses unités de production, le groupe CARLO ERBA Reagents offre à ses clients qualité et service à travers la flexibilité de la production et des installations. Réacteurs, 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 au conditionnement sont les critères qui guident CARLO ERBA Reagents dans son activité industrielle. CARLO ERBA Reagents veille également au respect des normes environnementales et d'hygiène et sécurité.

**C**ARLO ERBA Reagents garantiza a sus propios clientes la calidad y el servicio gracias a la flexibilidad productiva y a las numerosas mejoras de las instalaciones. Reactores, columnas de destilación, servicio de stockage, línea de acondicionamiento automático y salas blancas, son solo algunas de las tecnologías de las que disponemos para responder a las necesidades del mercado. Procedimientos operativos estandarizados, operarios altamente cualificados y un rígido control de las diversas fases productivas y de acondicionamiento, son los criterios que guían a CARLO ERBA Reagents en la actividad industrial. El respeto de la seguridad, la higiene y las normas medioambientales son, de cara a la garantía de calidad del producto, unas de las preocupaciones de CARLO ERBA Reagents.

# QUALITY

QUALITA' / QUALITE / CALIDAD



**O**ur quality management system focuses on ongoing improvement to deliver the best market service using operational procedures that carefully monitor every step in the production process, starting with the raw materials to the finished product.

The system ensures complete traceability of all materials used for production, a prompt change control system and management of technical documentation.

The entire process is accurately monitored through regularly scheduled inspections performed by employees, technical officers, inspectors and user clients.

**I**l 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 garantisce 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 interno, funzionari, ispettori e clienti utilizzatori.




**L**e 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.

**N**uestro sistema de calidad está basado en la gestión de riesgos de las plantas de producción, en la cualificación de las instalaciones adaptada a nuestra actividad, en el control de los procesos, en los procedimientos de limpieza y en los métodos analíticos. Independiente de la producción, el departamento de calidad gestiona la documentación, el control de los datos internos, la trazabilidad, las auditorías internas, el "change control", el seguimiento interno de los indicadores, la mejora continua.

# ERBApharm

PHARMACEUTICAL GRADE PRODUCTS / PRODOTTI DI GRADO FARMACEUTICO  
 PRODUITS DE GRADO PHARMACEUTIQUE / PRODUCTOS DE CALIDAD FARMACEÚTICA



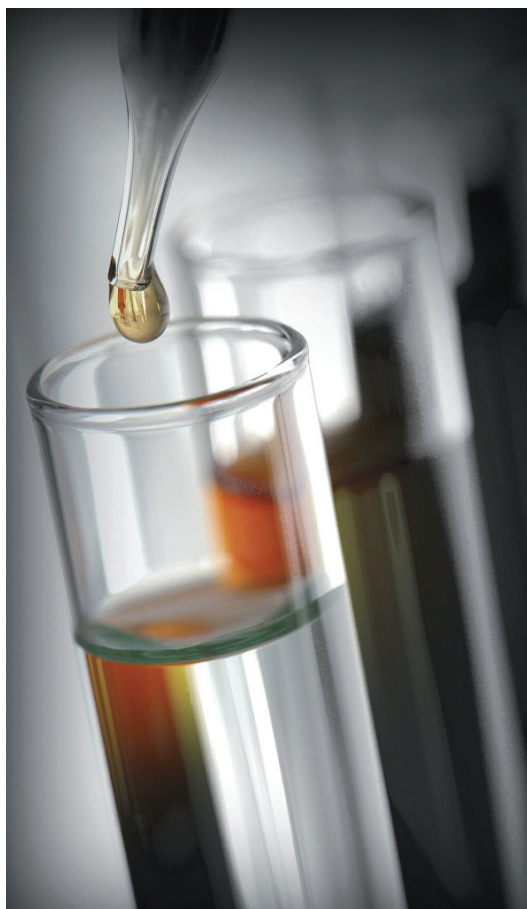
<p>NaOH CAS n° 1310-73-2</p> <p>Description: Clear colourless liquid - Colour: &lt;= 10 APHA Identification: Positive Density at 20°C: 1,311 - 1,344 - Heavy metals (Pb): &lt;= 20 ppm Assay: 29.5 - 30.5 %</p> <p>See the CA for more information</p> 	<p>369704 1L</p> <p><b>Sodium hydroxide ERBA solution 30% pharm</b></p> <p>Prepared from raw material according to Ph.Eur</p> <p><b>Sodio idrossido soluzione 30% en solution à 30%</b></p> <p><b>Sodium hydroxyde en solution à 30%</b></p> <p><b>Sodio hidróxido solución 30% Natronlauge 30%</b></p> <p><b>UN 1824</b> Batch Number V4A888134A Expiry Date 2017/01</p> <p>CARLO ERBA Reagents S.A.S. BP 616 F-27108 Val de Reuil Cedex T +33 (0) 23209000</p> <p>780107-0313</p>	<p><b>PERICOLO</b></p> <p>Attenzione: per il trasporto del NaOH occorre per gli recipienti riciclati con etichette di gruppo rischio H218 Pericolo: irritazione cutanea. H272 Pericolo: infiammazione del fieno di combustione. In questo modo, il NaOH è un prodotto altamente corrosivo. Per il trasporto del NaOH occorre per gli recipienti riciclati con etichette di gruppo rischio H272 Pericolo: infiammazione del fieno di combustione. In questo modo, il NaOH è un prodotto altamente corrosivo. Per il trasporto del NaOH occorre per gli recipienti riciclati con etichette di gruppo rischio H272 Pericolo: infiammazione del fieno di combustione. In questo modo, il NaOH è un prodotto altamente corrosivo.</p> <p><b>PERICOLO</b></p> <p>Attenzione: per il trasporto del NaOH occorre per gli recipienti riciclati con etichette di gruppo rischio H218 Pericolo: irritazione cutanea. H272 Pericolo: infiammazione del fieno di combustione. In questo modo, il NaOH è un prodotto altamente corrosivo. Per il trasporto del NaOH occorre per gli recipienti riciclati con etichette di gruppo rischio H272 Pericolo: infiammazione del fieno di combustione. In questo modo, il NaOH è un prodotto altamente corrosivo.</p> <p><b>PERICOLO</b></p> <p>Attenzione: per il trasporto del NaOH occorre per gli recipienti riciclati con etichette di gruppo rischio H218 Pericolo: irritazione cutanea. H272 Pericolo: infiammazione del fieno di combustione. In questo modo, il NaOH è un prodotto altamente corrosivo. Per il trasporto del NaOH occorre per gli recipienti riciclati con etichette di gruppo rischio H272 Pericolo: infiammazione del fieno di combustione. In questo modo, il NaOH è un prodotto altamente corrosivo.</p>
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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, excipients 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).

CARLO ERBA Reagents ha sviluppato la linea di prodotti ERBApharm su specifiche esigenze del mercato farmaceutico. Le caratteristiche tecniche sono conformi ai requisiti delle Farmacopoe in vigore oppure, dove non esistenti, ad un severo capitolato di vendita. Questi prodotti sono destinati ad essere utilizzati come materie prime, intermedi di sintesi, reattivi per la produzione di principi attivi, eccipienti e soluzioni biopharma. La linea ERBApharm include ogni tipologia di prodotto: solventi, acidi e basi puri e in soluzione, soluzioni titolate, sostanze organiche ed inorganiche in polvere. La documentazione disponibile per questi materiali risponde alle esigenze di tracciabilità legate al loro utilizzo (accordo di confidenzialità, nome del produttore, carte di controllo, solventi residui, metalli, dichiarazione BSE/TSE, OGM, allergeni e realizzazione del sistema di change control).





**E**RBAPharm est la gamme de produits CARLO ERBA Reagents dédiée au marché pharmaceutique. Conformes aux principales pharmacopées ou à un cahier des charges strict quand aucune n'existe, ces produits sont utilisés comme starting materials, intermédiaires de synthèse, réactifs pour API, excipients, solutions biopharma... La gamme ERBAPharm regroupe tous types de produits: solvants, acides et bases purs, dilués ou titrés, poudres organiques et inorganiques. La documentation disponible pour ces matières est en phase avec les besoins de traçabilité et d'exigence liés à l'utilisation de ces matières (accord de confidentialité, nom du fabricant, chart flow, solvants résiduels, résidus métalliques, déclaration BSE/TSE, OGM, allergènes..., mise en place de change control).

**E**RBAPharm es la gama de productos CARLO ERBA Reagents dedicada al mercado farmacéutico. Conformes a las principales farmacopeas o a un pliego de condiciones estricto, estos productos se utilizan como «starting materials», intermedios de síntesis, reactivos para API, excipientes, soluciones biopharma. La gama ERBAPharm agrupa todo tipo de productos: disolventes, ácidos y bases puros, diluidos o valorados, polvos orgánicos e inorgánicos. La documentación disponible para esas materias está en línea con las necesidades de trazabilidad y de exigencia relacionada con el uso de esas materias (acuerdo de confidencialidad, nombre del fabricante, chart flow, disolventes residuales, residuos metálicos, declaración BSE/TSE, OGM, alérgenos... puesta en marcha de «change control»).

# TAILOR MADE

PRODOTTI SU MISURA / PRODUITS A FAÇON / PRODUCTOS A MEDIDA



**C**ARLO ERBA Reagents draws on its vast experience and production flexibility to manufacture tailor-made products for the industry and laboratories. All our customized products are provided with a certificate of analysis and safety data sheet in compliance with current legislation. Product customization may involve formulation of new mixtures, introduction of new qualitative parameters or the use of special packing and packaging to customer specifications. Moreover, CARLO ERBA Reagents supplies solvents in reusable, stainless steel drums to optimize the quality and handling of its solvents as well as to eliminate the costs for the disposal of empty drums. The solution is ideal for applications involving the use of large volumes of solvents.

**C**ARLO ERBA Reagents è un'azienda specializzata nella realizzazione di prodotti su misura per l'industria e il laboratorio, grazie alla consolidata esperienza e flessibilità produttiva. I nostri prodotti su misura 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 ed 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 ed eliminare i costi di smaltimento dei vuoti. Questa soluzione è ideale in applicazioni con consumi importanti di solventi.



**D**epuis 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 maîtres mots pour répondre à leurs attentes et respecter leurs exigences. Nous fabriquons vos mélanges spécifiques (organiques ou aqueux), vos solutions titrées et 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.

**C**ARLO ERBA Reagents es reconocido como un gran especialista en la fabricación de productos a medida para la industria y el laboratorio. Desarrollamos en colaboración con nuestros clientes mas exigentes un servicio a medida: experiencia, flexibilidad y adaptabilidad son las claves para responder a sus expectativas y exigencias. Fabricamos sus mezclas específicas (orgánicas o acuosas), soluciones valoradas, fases eluyentes,... en el acondicionamiento de su elección con un etiquetado y una FDS conforma las reglamentaciones vigentes y un certificado de análisis. Por otro lado, CARLO ERBA Reagents propone acondicionamientos retornables de acero inoxidable para optimizar la calidad del disolvente y la gestión de los residuos de embalaje. Este tipo de acondicionamiento esta indicado para clientes que consumen grandes cantidades de disolventes, tanto en la industria como en el laboratorio.

# COMPLEMENTARY RANGES

GAMME COMPLEMENTARI / GAMMES COMPLEMENTAIRES /  
GAMAS COMPLEMENTARIAS

Idrimer™ line for water analysis / Linea Idrimer™ per l'analisi delle acque / Gamme Idrimer™ pour l'analyse des eaux / Línea Idrimer™ para l'análisis de aguas

The Idrimer™ product line features two groups of kits identified by the codes M (*non-instrumented*) and S (*instrumented*):

**Mc Kits** Non-instrumented colorimetric kits

**Mv Kits** Non-instrumented volumetric kits

**St Kits** Instrumented multi-test kits

**Sm Kits** Instrumented single-test kits



**T**he Idrimer™ product line grants reliable yet highly accurate solutions for water analysis.

The simplicity of reactions and the user-friendly systems of the innovative kits and instruments of this product line allow even unskilled users to obtain reliable results. The methods used to develop these kits are the same adopted in water control laboratories and are compliant to the official methodologies. Our kits are supplied with detailed instructions for use.

**L**a linea Idrimer™ assicura e garantisce affidabilità e precisione nella ricerca e nella determinazione dei parametri principali e delle sostanze inquinanti che possono essere presenti nelle acque chiare e di scarico.

La semplicità delle reazioni ed il facile utilizzo dei sistemi che comprendono la gamma Idrimer™ permettono a qualsiasi utilizzatore di ottenere risultati affidabili. I metodi utilizzati per lo sviluppo di questi kit sono gli stessi in uso nei laboratori di controllo delle acque e sono in accordo alle metodiche ufficiali. Ogni kit è fornito con dettagliate istruzioni per l'uso.

**L**a gamme Idrimer™ assure et garantit fiabilité et précision dans la recherche des principales substances polluantes présentes dans l'eau. La gamme Idrimer™ est constituée d'une série de kits alliant simplicité d'utilisation et autonomie totale, même pour un personnel n'ayant pas une qualification de technicien de laboratoire.

Les techniques utilisées pour le développement de ces kits sont identiques aux méthodes employées dans les laboratoires d'analyses officiels. Un mode d'emploi est fourni dans chaque emballage.

**L**a gama Idrimer™ asegura y garantiza fiabilidad y precisión en la investigación de las principales sustancias contaminantes presentes en el agua. Las técnicas utilizadas para el desarrollo de estos kits son idénticas a los métodos oficiales utilizados en los laboratorios. La gama Idrimer™ está compuesta por una serie de kits que aunan simplicidad de utilización con autonomía total, incluso para personal que no tenga la cualificación de técnico de laboratorio. Cada embalaje incluye un modo operatorio.

## AUSILAB™ Detergents / Detergenti AUSILAB™ / Détergents AUSILAB™ / Detergentes AUSILAB™



**Ausilab™ 101** Neutral, manual washing cleaner  
**Ausilab™ 104** Alkaline manual washing cleaner  
**Ausilab™ 201** Alkaline powder for glassware washers

**Ausilab™ 205** Acid for glassware washers  
**Ausilab™ 208** Alkaline for glassware washers  
**Ausilab™ 300** Neutral hand washing cream.

**C**ARLO ERBA Reagents, in cooperation with companies specialized in the branch of cleaners, is now able to offer laboratory technicians a range of suitable cleaners for all fields of analysis.

**C**ARLO ERBA Reagents, en collaboration avec des entreprises spécialisées dans le secteur des détergents, propose aux techniciens de laboratoire une gamme de détergents adaptés à tous les secteurs analytiques.

**C**ARLO ERBA Reagents, in collaborazione con aziende specializzate nel settore della detergenza, è in grado di offrire ai tecnici di laboratorio una gamma di detergenti idonei a tutti i settori analitici.

**C**ARLO ERBA Reagents, en colaboración con empresas especializadas en el sector de los detergentes, ofrece a los técnicos de laboratorio una gama de detergentes adaptada a todos los sectores analíticos.

## pH Indicator / Indicatori di pH / Indicateurs de pH / Indicadores de pH



**I**ndicator papers are a convenient and particularly simple instrument for pH measurement. Indicator papers are filter papers permeated with indicator solutions. A wide variety of indicator papers is available, allowing the user to select the product most suited to the sample in analysis and the degree of accuracy required on the final result: litmus, high-sensitivity indicator paper in rolls, three-color indicator paper in rolls, indicator strips with built-in color scale and color-fixed indicator strips without built-in color scale.


**L**es papiers indicateurs représentent un moyen pratique et particulièrement simple pour la mesure du pH. Ils sont constitués de papier filtre imprégné avec des solutions indicatrices. Plusieurs types de papiers sont disponibles afin de permettre à l'utilisateur de choisir le produit le plus adapté au type d'échantillon à analyser et au degré de précision souhaité sur le résultat final: tournesol, en rouleau à haute sensibilité, en rouleau trichromique, en bandes avec échelle chromatique incorporée, ou en bandes avec échelle chromatique non-incorporée indélébile.

**L**e cartine indicatrici rappresentano un mezzo pratico e particolarmente semplice per la misurazione del pH. Sono costituite da carta da filtro impregnata con soluzioni indicatrici. Sono disponibili in un'ampia varietà per poter permettere all'utilizzatore la scelta ottimale in relazione al tipo di campione da analizzare e al grado di accuratezza richiesto sul risultato finale: tornasole, rotolo con indicatori misti, rotolo tricromatica, in strisce con scala cromatica incorporata e indelebili in strisce con scala cromatica non incorporata.


**L**os papeles indicadores representan un medio práctico y particularmente simple para la medición del pH. Están compuestos por papel filtrado impregnado con soluciones indicadoras. Se dispone de varios tipos de papeles para permitir al usuario elegir el producto adecuado en función del tipo de muestra que debe analizarse y del grado de precisión deseado del resultado final: tornasol, en rollos de alta sensibilidad, en rollos tricromático, en tiras con escala cromática incorporada, o en tiras con escala cromática indeleble no incorporada.

# CERTIFICATE OF ANALYSIS

CERTIFICATO DI ANALISI / CERTIFICAT D'ANALYSES / CERTIFICADOS DE ANALISIS



120 9001: 2008



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## Certificate of Analysis

**1** **PRODUCT** : ACETONITRILE RS PLUS - For HPLC Gradient- ACS- Reag.Ph.Eur.- Reag.USP.

**2** **CODE** : 412392000

**3** **LOT N°** : D3L031043M **5** **METHOD** : 6479

**4** **EXPIRING DATE** : 2017/11 **6** **EDITION** : 6

<b>7</b> TEST	U.M.	SPECIFICATION	<b>9</b> <b>10</b> RESULT
Description	-	Clear liquid	Conform
Colour (APHA)	-	<= 10	5
Identification	-	Positive	Positive
Density at 20° C	-	0.781 + 0.785	Conform
Refractive index at 20° C	-	1.3420 + 1.3440	1.3440
Distillation range 95% distils between	°C	80 + 82	Pass test
Titration acid	meq/g	<= 0.0008	<0.0008
Titration base	meq/g	<= 0.0002	<0.0002
Residue on evaporation	%	<= 0.0002	<0.0002
Water (K.F.)	%	<= 0.01	0.0013
Litmus paper test	-	Conform	Conform
Assay (GLC)	%	>= 99.9	99.99
Fluorescence	-	-	-
at 254 nm	ppb	<= 1	<1
at 365 nm	ppb	<= 0.5	<0.5
at 450 nm	ppb	<= 0.5	<0.5
U.V. Transmittance	-	-	-
at 195 nm	%	>= 79	83.08
at 200 nm	%	>= 90	93.45
at 210 nm	%	>= 95	96.54
at 220 nm	%	>= 98	98.03
From 255 to 420 nm	%	>= 98	>98
Absorbance	-	-	-
At 190 nm	AU	<= 1.00	0.540
At 200 nm	AU	<= 0.05	0.029
At 220 nm	AU	<= 0.05	0.009
At 254 nm	AU	<= 0.01	0.0014
Absorbance ACS	-	Pass test	Conform
Gradient elution ACS	-	pass test	Conform
Functionality for HPLC	-	-	-
At 210 nm	mAU	<= 2	<2
At 254 nm	mAU	<= 0.8	<0.8

Filtered at 0.2 micron

**11** Approve Date : 21/10/2013

Date : 04/12/2013

Not signed electronically issued document

**QUALITY CONTROL RESPONSIBLE**

All certificates of analysis for our products are available on our website at [www.carloerbareagents.com](http://www.carloerbareagents.com) by entering the lot code and number printed on the label. 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.

Tutti i certificati di analisi dei nostri prodotti sono disponibili sul sito [www.carloerbareagents.com](http://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.

- 1 NAME OF THE PRODUCT, GRADE AND APPLICATION / NOME DEL PRODOTTO, GRADO E APPLICAZIONE / NOM DU PRODUIT, QUALITE ET APPLICATION / NOMBRE DEL PRODUCTO, CALIDAD Y APLICACIÓN
- 2 PRODUCT CODE / CODICE PRODOTTO / CODE PRODUIT / CÓDIGO DE PRODUCTO
- 3 LOT NUMBER / NUMERO DI LOTTO / NUMERO DE LOT / NUMERO DE LOTE
- 4 PRODUCT EXPIRATION DATE / DATA DI SCADENZA DEL PRODOTTO / DATE DE PEREMPTION DU LOT / FECHA DE CADUCIDAD DEL PRODUCTO
- 5 CODE OF THE METHOD USED FOR THE QUALIFICATION OF THE PRODUCT / CODICE DEL METODO UTILIZZATO PER LA QUALIFICAZIONE DEL PRODOTTO / REFERENCE DE LA METHODE D'ANALYSE UTILISEE POUR LA QUALIFICATION DU PRODUIT / REFERENCIA DEL MÉTODO DE ANÁLISIS UTILIZADO PARA LA VALIDACIÓN DEL PRODUCTO
- 6 CERTIFICATE EDITION NUMBER WHICH CHANGES WHEN GUARANTEED SPECIFICATIONS ARE UPDATED / NUMERO DELL'EDIZIONE DEL CERTIFICATO, CAMBIA CON L'AGGIORNAMENTO DELLE SPECIFICHE GARANTITE / NUMERO D'EDITION POUR LE SUIVI DES VARIATIONS DE SPECIFICATIONS / NÚMERO DE LA EDICIÓN DEL CERTIFICADO, CAMBIANDO CON LAS ÚLTIMAS ESPECIFICACIONES ACTUALIZADAS GARANTIZADOS
- 7 DESCRIPTION OF THE CHEMICAL-PHYSICAL TESTS THE PRODUCT UNDERGOES / DESCRIZIONE DELLE PROVE CHIMICO-FISCHE A CUI VIENE SOTTOPOSTO IL PRODOTTO / DESCRIPTION DES PARAMETRES PHYSICO-CHIMIQUES ANALYSES / DESCRIPCIÓN DE LOS PARÁMETROS FÍSICO-QUÍMICOS DEL ANÁLISIS DEL PRODUCTO
- 8 UNIT OF MEASURE / UNITÀ DI MISURA / UNITE DE MESURE / UNIDAD DE MEDIDA
- 9 GUARANTEED PRODUCT SPECIFICATIONS / SPECIFICHE GARANTITE PER IL PRODOTTO / SPECIFICATIONS DU PRODUIT AVEC INDICATION DES LIMITES DE TOLERANCE / ESPECIFICA LA GARANTÍA DEL PRODUCTO, CON INDICACIÓN DE LOS LÍMITES DE TOLERANCIA
- 10 TEST RESULTS OBTAINED FOR THE SPECIFIC LOT, AND FOR EACH SINGLE TEST, IN COMPLIANCE WITH INTERNATIONAL STANDARDS (PHARMACOPEIAS, ACS, ISO), IF APPLICABLE / RISULTATO OTTENUTO PER IL LOTTO IN OGGETTO, PER OGNI SINGOLA PROVA, SECONDO LE METODICHE INTERNAZIONALI (FARMACOPEE, ACS, ISO) OVE PERTINENTI / RESULTATS D'ANALYSE OBTENUS EN UTILISANT LA METHODE ADAPTEE ET RECONNUE AU NIVEAU INTERNATIONAL (PHARMACOPEE, ACS, ISO) / RESULTADO DEL ANÁLISIS OBTENIDO POR LOTE EN CADA PRUEBA, SEGÚN LA METODOLOGÍA INTERNACIONAL (FARMACOPEA, ACS, ISO) PERTINENTE
- 11 APPROVAL DATE FOR TEST RESULTS / DATA DI APPROVAZIONE DEI RISULTATI DI ANALISI / DATE D'APPROBATION DES RESULTATS D'ANALYSE / FECHA DE APROVACION DEL RESULTADO DE ANÁLISIS

Tous les certificats d'analyses sont disponibles sur le site [www.carloerbareagents.com](http://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 ouvert, conservés à l'abri de la chaleur, de la lumière et de l'humidité, ou selon les indications précisées sur la FDS.

Todos nuestros certificados están disponibles en la Web: [www.carloerbareagents.com](http://www.carloerbareagents.com) insertando el código y el número de lote que aparece en la etiqueta. La fecha de caducidad aparece siempre en la etiqueta y en el certificado de análisis. Estas indicaciones son válidas para productos en su embalaje de origen, no abiertos, conservados al resguardo del calor, de la luz y de la humedad o según las indicaciones especificadas en la FDS.

# LABEL

ETICHETTA / ETIQUETAGE / ETIQUETA

9 10

5 1 2 3 4 8 6 7

CH3OH  
CAS 67-56-1  
EEC 200-659-6

MW (g/mol) 32  
Assay ≥99.5 %  
Boiling point 80-81°C  
d 20° - 4° 0.779 +/- 0.005  
n 20° - 4° 1.4264 +/- 0.0050

IMPURITIES  
Residue on evaporation ≤ 0.005%  
H2O ≤ 0.03%

See the CoA for more informations

412722 2.5 L

**METHANOL RS**

For HPLC Gold Ultragradient

Metanolo  
Méthanol  
Metanol  
Methanol

UN 1230

Batch number V1G803101H  
Expiry date 2015/12

**DANGER**  
H225 Highly flammable liquid and vapour. H301 Toxic if swallowed H311 Toxic in contact with skin H331 Toxic if inhaled H370 Causes damage to organs P210 Keep away from heat/spark/open flames/hot surfaces. - No smoking. P231+P331 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P301+P310 IF SWALLOWED: - immediately call a POISON CENTER or doctor P361 Remove/Take off immediately all contaminating clothes P405 Store locked up P501a Dispose of contents/container in accordance with local/ regional/ national/international regulations

**DANGER**  
H225 Liquide et vapeurs très inflammables. H301 Toxique en cas d'ingestion. H311 Toxique par contact cutané H331 Toxique par inhalation H370 risque avéré d'effets graves pour les organes P210 Tenir à l'écart de la chaleur/des étincelles/des flammes nues/des surfaces chaudes. - Ne pas fumer. P231+P331 EN CAS D'INGESTION: appeler immédiatement un CENTRE ANTIPOISON ou un médecin. P303+P361+P353 EN CAS DE CONTACT AVEC LA PEAU (ou les cheveux): enlever immédiatement les vêtements contaminés. Rincer la peau à l'eau/se doucher. P501a Éliminer le contenu/ récipient conformément à la réglementation locale/régionale/nationale/

**PERICOLO**  
H225 Liquido e vapori facilmente infiammabili. H301 Tossico se ingerito H311 Tossico per contatto con la pelle H331 Tossico se inalato H370 Provoca danni agli organi P210 Tenere lontano da fonti di calore/scintille/fiamme /superfici riscaldate - Non fumare P301+P310 IN CASO DI INGESTIONE: contattare immediatamente un CENTRO ANTIVENENO o un medico. P303+P361+P353 IN CASO DI CONTATTO CON LA PELLE (o con i capelli): togliersi di dosso immediatamente tutti gli indumenti conta P501a Smaltire il prodotto/recipiente in conformità con le disposizioni locali / regionali / nazionali

**PELIGRO**  
H225 Líquido y vapores muy inflamables. H301 Tóxico en caso de ingestión H311 Tóxico en contacto con la piel H331 tóxico en caso de inhalación H370 Provoca daños en los órganos P210 Manténgase alejado de fuentes de calor, chispas, llama abierta o superficies calientes. - No fumar. P301+P310 EN CASO DE INGESTIÓN: Llame inmediatamente a un CENTRO ANTIVENENO o a un médico. P303+P361+P353 EN CASO DE CONTACTO CON LA PIEL (o el pelo): Quitese inmediatamente las prendas contaminadas. Adárese la piel con agua o duchese P501a Eliminar el contenido o el recipiente conforme a la reglamentación local/ regional/ nacional

**CARLO ERBA REAGENTS**

**DASITGROUP**

Carlo Erba Reagents  
Chaussée du Vexin - BP 616  
F-27106 Val de Reuil  
T +33 (0) 232092000

**G**HS is an international system set up to harmonize 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, which entered into effect on January 20, 2009, provides for a transition period until June 1, 2015 during which product classification on the label and/or safety data sheet of substances may comply with either the CLP regulation or with the Directive previously in force. As of June 1, 2015, all our substances and mixtures will be provided with labels and safety data sheets in compliance with the new CLP Directive.

**I**l GHS è un Sistema Internazionale creato con lo scopo di armonizzare classificazione, etichettatura ed 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, prevede un periodo di transizione fino al 1 giugno 2015, durante il quale le sostanze potranno riportare in etichetta e/o nelle schede di sicurezza la classificazione dei prodotti come previsto dal CLP o dalla Direttiva precedentemente in vigore. Dal 1 giugno 2015, tutti i nostri prodotti, sia sostanze che miscele, saranno tassativamente commercializzati con etichetta e scheda di sicurezza conformi alla nuova Direttiva CLP.



**1** PRODUCT NAME  
NOME PRODOTTO  
NOM DU PRODUIT  
NOMBRE DEL PRODUCTO

**2** PRODUCT CODE  
CODICE PRODOTTO  
CODE PRODUIT  
CODE DEL PRODUCTO

**3** PACKAGING  
TAGLIO  
CONDITIONNEMENT  
UNIDAD DE VENTA

**4** GRADE  
GRADO  
GRADE  
GRADO

**5** APPLICATION  
APPLICAZIONE  
APPLICATION  
APLICACIÓN

**6** GHS HAZARD SYMBOLS  
SIMBOLI DI PERICOLOSITÀ GHS  
SYMBOLS OF DANGER GHS  
SIMBOLO DE PELIGROSIDAD GHS

**7** WARNING OF DANGER AND REFERENCES  
AND GHS PRECAUTIONARY  
AVVERTENZA E RIFERIMENTI DI PERICOLO  
E DI PRECAUZIONE GHS  
MENTIONS D'AVERTISSEMENT, DE DANGER  
ET DE PRUDENCE GHS  
ADVERTENCIA Y MENCIÓN DE PELIGRO Y DE  
PRECAUCIÓN GHS

**8** LOT NUMBER AND EXPIRATION DATE  
NUMERO DI LOTTO E DATA DI SCADENZA  
NUMERO DE LOT ET DATE DE PEREMPTION  
NUMERO DE LOTE Y FECHA DE CADUCIDAD

**9** INTERNATIONAL IDENTIFICATION  
IDENTIFICAZIONE INTERNAZIONALE  
CLASSIFICATION INTERNATIONALE  
IDENTIFICACIÓN INTERNACIONAL

**10** MAIN TECHNICAL SPECIFICATION  
PRINCIPALI SPECIFICHE TECNICHE  
PRINCIPALES SPECIFICATIONS  
PRINCIPALES ESPECIFICACIONES TECNICAS  
GARANTIZADAS

**L**e SGH 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, prévoit une période de transition du 20/01/2009 au 01/06/2015 avec cohabitation des 2 systèmes de classification sur la MSDS pour les substances. Pour les mélanges, l'étiquetage et la fiche de données de sécurité devront être selon le CLP à partir du 01/06/2015. Il est donc possible que vous receviez des produits étiquetés selon l'ancienne directive pendant cette période.

**L**a GHS es un sistema internacional creado para la armonización de la clasificación, etiquetaje y embalaje de los productos químicos.

A nivel interno de la Comunidad Europea, ha sido transpuesto al Reglamento (CE) n. 1272/2008, llamado CLP (Clasificación, Etiquetado y Envasado). Este Reglamento, entró en vigor después del 20 de Enero de 2009, preve un periodo de transición hasta el 1 de Junio de 2015, durante el cual coexistirán los 2 sistemas de clasificación de las MSDS para las sustancias. Para las mezclas el etiquetado y la ficha de seguridad entrarán en vigor, según la CLP, a partir del 1 de Junio de 2015.

A partir del 1 de Junio de 2015, todos nuestros productos, serán comercializados con la etiqueta y la ficha de seguridad conforme a la nueva directiva CLP.

# SAFETY DATA SHEET

SCHEDA DI SICUREZZA / FICHE DE DONNEES DE SECURITE / FICHA DE SEGURIDAD

Page 1/13

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

Printing date 10.12.2013      Version number 2      Revision: 10.12.2013

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

- **1.1 Product identifier**
- **Molecular formula:** C<sub>2</sub>H<sub>3</sub>N
- **Structure formula:** C H<sub>3</sub> - 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 such or in preparations at industrial sites  
SU2a Mining, (without offshore industries)  
SU2b Offshore industries  
SU9 Manufacture of fine chemicals  
SU10 Formulation [mixing] of preparations and/or re-packaging (excluding alloys)  
SU24 Scientific research and development
- **Product category**  
PC19 Intermediate  
PC20 Products such as ph-regulators, flocculants, precipitants, neutralization agents  
PC21 Laboratory chemicals  
PC35 Washing and cleaning products (including solvent based products)  
PC30 Photo-chemicals  
PC29 Pharmaceuticals  
PC40 Extraction agents  
PC39 Cosmetics, personal care products
- **Process category**  
PROC1 Use in closed process, no likelihood of exposure  
PROC2 Use in closed, continuous process with occasional controlled exposure  
PROC3 Use in closed batch process (synthesis or formulation)  
PROC5 Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)  
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)



**C**ARLO ERBA Reagents provides all of its hazardous substances and mixtures with a safety data sheet in compliance with Article 31 of the REACH Regulation No. 1907/2006 and Annex I of EU Regulation No. 453/2010. All our safety data sheets are updated in real time and available on our website at [www.carloerbareagents.com](http://www.carloerbareagents.com).

**P**er tutte le sostanze e miscele pericolose, CARLO ERBA Reagents fornisce una scheda di sicurezza conforme all'articolo 31 del Regolamento n°1907/2006 (REACH) e all'annesso I del Regolamento (UE) n°453/2010. Tutte le nostre schede di sicurezza, aggiornate in tempo reale, sono disponibili sul nostro sito [www.carloerbareagents.com](http://www.carloerbareagents.com).



**C**ARLO ERBA Reagents réalise, 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. Toutes les fiches de données de sécurité, mises à jour en temps réel, sont consultables sur le site [www.carloerbareagents.com](http://www.carloerbareagents.com).

**C**ARLO ERBA Reagents realiza, para todas las sustancias y mezclas peligrosas, una ficha de seguridad conforme al artículo 31 del Reglamento n°1907/2006 (REACH) y al anexo I del Reglamento (UE) n°453/2010. Todas nuestras fichas de seguridad, actualizadas en tiempo real, están disponibles en nuestro sitio web: [www.carloerbareagents.com](http://www.carloerbareagents.com).

# PACKAGING

IMBALLAGGI / EMBALLAGES / EMBALAJES



Nominal volume	Colour	Diameter at the base	Height	Opening
<b>Glass bottle</b>		mm	mm	mm
50 ml	Amber	41	82	31,5
100 ml		47	110,4	20,5
250 ml		51,2	142	16,5
500 ml		78	190	28
1 000 ml		98	243	ISO 45
2500 ml		138	318,5	ISO 45

<b>HDPE bottles for liquids</b>				
250 ml	Translucid	55	152	18
500 ml		76,5	193	ISO 45
1000 ml		97,5	245	ISO 45
2500 ml		140	321	ISO 45
5000 ml		164	361,5	29,3

<b>HDPE bottles for solids</b>				
300 ml	Grey or white	61,5	166,5	41,4
600 ml		77	176	41,4
1250 ml		98,5	210,5	55,2
2900 ml		130	276	55

<b>HDPE containers for solids with wide opening</b>				
5 kg	White	191	211	115
10 kg		190	395	112

<b>HDPE buckets with full opening</b>				
30 l	White	278	417	Full
32 l		405	402	Full
59 l		447	562	Full

Nominal volume	Colour	Diameter at the base	Height	Opening
<b>HDPE containers and drums</b>		mm	mm	mm
5 l	Translucid	187	285	42
10 l	Natural	245	186	DIN 45
10,8 l	Translucid	230	307	DIN 55
25 l	Natural	290	450	48
26,6 l	Translucid	305	480	DIN 61
27,1 l	Blue	290	450	2" + 3/4"
228 l	Translucid	581	965	2" + 3/4"

<b>Kubidos™ (plastic bag inside)</b>				
10 l	Translucid	228	228	37,5

<b>Aluminium containers</b>				
5 l	Grey	175	292	42
32 l	Grey	300	545	DIN 62

<b>Stainless steel containers or drums with 2 openings</b>				
25 l	Blue or grey	289	530	2" + 3/4"
235 l		585	917	2" + 3/4"

<b>Drums with 2 openings and internal lining</b>				
235 l	Blue or grey	585	917	2" + 3/4"

Description		Material	Colour	Opening	Code
Tap cap for 5 liters HDPE containers		PE	Red and white	42 mm	599003
Tap cap for 10 liters HDPE containers		PE	Red and white	DIN 55	599001
Tap cap for 25 liters HDPE containers		PE	White	DIN 61	599002
Tap cap for 25 liters HDPE containers		PE	White	DIN 61	599005
Threaded tap for HDPE drums		PE	White	3/4"	289397650
Spanner wrench		PE	White		289397652
Tap adapter for drums		PE	White	2"	289397653
Spanner wrench for bottles and containers		PE	Grey	DIN 32 DIN 45	500016
Spanner wrench for containers and drums		PE	Black	DIN61	528002
Tri-Sure® key for drums (*)		Metal	Grey	2" + 3/4"	528008

(\*) property of Tri-Sure®

# HOW TO CHOOSE THE PRODUCTS

COME SCEGLIERE I PRODOTTI / COMMENT CHOISIR LES PRODUITS /  
CÓMO ELEGIR LOS PRODUCTOS

GRADE	APPLICATION	PRODUCTS FOR SPECIFIC USES
RS Specific Grade Reagents	For LC-MS	Extremely high-purity solvents, provided with guaranteed specifications of a high-performance LC-MS solvent: high assay, low acidity, alkalinity and residue, ideal fluorescence, absorbance/transmittance and gradient test, low metal content at ppb level in order to prevent interactions with ionized species in the mass analyzer, low particulate and LC-MS suitability. They are suitable for UHPLC-MS
	For HPLC GOLD Ultragradient	Extremely high-purity solvents that guaranteed excellent short-wavelength performance, low particulate and limited drift, which makes them ideal for gradient applications and trace analysis. They are suitable for UHPLC.
	For HPLC PLUS Gradient	High-purity solvents for very sophisticated uses, with guaranteed gradient test, fluorescence and transmittance limits
	For HPLC Isocratic	This is a line of high-purity solvents which, due to their high purity and strictly controlled chemical-physical parameters, adequately meet the needs of modern analytical HPLC.
	For HPLC preparative	High-purity solvents that are able to guarantee contamination-free separations and purifications.
	For HPLC	Derivatizers, Reagents for pre- and post-column modification in HPLC and Reagents for ion pair chromatography
	ATRASOL - For trace analysis	High-purity solvents, specific for the extraction and analysis of hydrocarbons and volatile contaminants, even at trace levels. The absence of critical impurities is ensured by specific functionality tests (GC-ECD and GC-FID)
	PESTIPUR- For pesticide analysis	High-purity solvents, specific for the extraction of pesticides and the analysis of chlorinated and nitrogenous residues, even at trace levels. The absence of critical impurities is ensured by specific functionality tests (GC-ECD and GC-NPD).
	Anhydrous	Our anhydrous solvents are the result of specific production processes, optimized and controlled to obtain the highest degree of purity and minimum water content. For improved prevention of contamination from external humidity, all our solvents can be supplied with molecular sieves on request.
	SPECTROSOL For optical spectroscopy	High-purity solvents for spectroscopy, obtained through specific production processes, controlled and packaged in order to adequately meet the needs of modern ultraviolet, infrared and fluorescence analytical techniques.
	For NMR	Deuterated solvents, available in various degrees of isotopic purity and a vast assortment of package.
	For Karl Fischer titration	Karl Fischer reagents for volumetric titrations that do not contain pyridine: One-component reagents, Two-component reagents and Reagents for titration in the presence of aldehydes and ketones.
	For Kjeldahl	Catalysts for the determination of the nitrogen content according to the Kjeldahl method, in powder and tablets.
	For microscopy	Fixatives, Solvents for dehydration, deparaffinization and diaphanization, Inclusion media, Dyes and Staining solutions, Mounting media and Immersion media for Histology, Hematology and Cytodiagnosis
	For volumetry	Ready-to-use volumetric solutions with guaranteed quality and NIST traceability. The assay precision is at +/- 0.1% and the exact title of the batch is printed on the label and on the certificate of analysis.
	For chromatography	
For COD analysis		
For metallography		
For microanalysis	Acids, Bases, Solvents, Salts, Indicators, ready-to-use Reagents, organic and inorganic Substances with guaranteed quality for specific applications	
For peptide synthesis		
For pHmetry		
For polarography		

GRADE	APPLICATION	PRODUCTS FOR SPECIFIC USES
RS Specific Grade Reagents	For potentiometry	
	For surfactants detection	Acids, Bases, Solvents, Salts, Indicators, ready-to-use Reagents, organic and inorganic Substances with guaranteed quality for specific applications
	For thin layer chromatography	
	MOS For electronic use	Acids, Salts and Solvents for MOS (Metal Oxide Semiconductor) circuit production processes. Physical purity is guaranteed in compliance with NAV AIR 10-1°-17, SAE 749 D and NAS 1638 specifications.
	RSE For electronic use	Acids, Salts and Solvents for the electronics industry, characterized by high chemical purity for all the applications which do not require control of particle content.
	VLSI For electronic use	For the production of microcircuits using VLSI technology (Very Large Scale Integration).
	Superpure For trace analysis	Acids, bases and water for trace metal analysis on the ppb level
	Ultrapure For trace analysis	Acids, bases and water for trace metal analysis on the ppt level
	Standard for AAS	
	Standard for detection of surfactants	
	Standard for ICP	
	Standard for ICP-MS	Organic and Inorganic reference standard (neat and solutions) for the instrumental calibration, with guaranteed quality and NIST traceability.
	Standard for ionic chromatography	
	Standard for refractometry	
Standard for volumetry		
RPE Analytical Grade Reagents	For analysis	Acids, Bases, Solvents, Salts, Organic and Inorganic substances provided with purity generally higher than 99,5%
	For analysis-ISO	Acids, Bases, Solvents, Salts, Organic and Inorganic substances provided with guaranteed purity in compliance with ISO (International Organization for Standardization) specifications.
	For analysis-ACS	Acids, Bases, Solvents, Salts, Organic and Inorganic substances provided with guaranteed purity in compliance with ACS ( American Chemical Society) specifications.
	For analysis-Reag. According to Pharmacopoeia	Acids, Bases, Solvents, Salts, Organic and Inorganic substances provided with guaranteed conformity with the Pharmacopoeia requirements for analytical purposes.
	NORMEX For analysis	Concentrated buffer, volumetric and single-element solutions packaged in Normex vials. These are ideal to prepare solutions immediately before the instrumental analysis in a rapid and precise manner, following the detailed instructions for use printed on the package of each individual Normex vial.
ERBAPharm Pharma Grade Products	According to pharmacopoeia	Raw materials and/or excipients intended for the pharmaceutical production. For our ERBAPharm grade products we specify the pharmacopoeias the product complies with in the application band (e.g. according to pharmacopoeia: Ph.Eur.-USP-FU).
RE Technical Grade Reagents	Pure	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

COME LEGGERE IL CATALOGO / COMMENT LIRE LE CATALOGUE /  
CÓMO LEER EL CATÁLOGO

PRODUCT NAME  
NOME DEL PRODOTTO  
NOM DU PRODUIT  
NOMBRE DEL PRODUCTO

TRANSPORT CLASSIFICATION  
CLASSIFICAZIONE PER IL TRASPORTO  
CLASSIFICATION TRANSPORT  
CLASIFICACIÓN DE TRANSPORTE

## Methanol

INTERNATIONAL CLASSIFICATION  
IDENTIFICAZIONE INTERNAZIONALE  
CLASSIFICATION INTERNATIONALE  
CLASIFICACIÓN INTERNACIONAL

CH<sub>3</sub>OH  
Molecular Weight 32  
CAS : 67-56-1  
EEC-N : 200-659-6

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

## Methanol > RS-For LC/MS

APPLICATION  
APPLICAZIONE  
APPLICATION  
APLICACIÓN

Description .....	Clear colourless liquid	At 210 nm .....
Colour .....	<= 10 APHA	At 225 nm .....
Identification (I.R.) .....	Conform	At 235 nm .....
Refractive index at 20°C .....	1.327 - 1.331	At 250 nm .....
Water (K.F.) .....	<= 200 ppm	>= 260 nm .....
Residue on evaporation .....	<= 2 ppm	Fluorescence (quinine) .....
Acidity .....	<= 0.0003 meq/g	At 254 nm .....
Alkalinity .....	<= 0.00006 meq/g	At 365 nm .....
Assay (GLC) .....	>= 99.95 %	HPLC gradient .....
Transmission UV (1cm, ref water) .....		At 235 nm .....

PRODUCT CODE  
CODICE PRODOTTO  
CODE PRODUIT  
CÓDIGO PRODUCTO

Code	Size	Packaging
414831	1l	Glass bottle
414832	2,5l	Glass bottle

Filtered through 0.1µm membrane. Suitable in ULC-MS

COMMERCIAL INFORMATION  
NOTE COMMERCIALI  
INFORMATIONS COMMERCIALES  
INFORMACIONES COMERCIALES

UNIT SIZE  
UNITA' DI VENDITA  
UNITE DE VENTE  
UNIDAD DE VENTA

PACKAGING  
CONFEZIONAMENTO  
CONDITIONNEMENT  
ENVASE

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](http://www.carloerbareagents.com).

Le specifiche chimiche dei nostri prodotti possono subire variazioni. Pertanto, per valutazioni tecniche vi invitiamo a consultare le specifiche aggiornate disponibili sul nostro sito [www.carloerbareagents.com](http://www.carloerbareagents.com).



**Methanol** Synonym : *Methyl alcohol*

CH<sub>3</sub>OH  
Molecular Weight 32  
CAS : 67-56-1  
E.C. N. : 200-659-6

**Classification transport**  
Class: 230  
Transport Hazard class: 3  
Packing group II

**Danger**  
2.6/2; H225-3.1.O/3; H301-3.1.D/3; H311-3.1.I/3; H331-3.8/1; H370  
P210-P241-P304+P340-P307+P311-P403+P235-P405-P501a

**Methanol > RS-For LC/MS** **RS**

Description	At 210 nm	>= 90 %	At 214 nm	<= 1 mAU
Color	At 215 nm	>= 85 %	Test LC-MS TIC (50-2000m/z) ESI (+)	<= 50 ppb
Identification 98%	At 225 nm	>= 80 %	Sensitive Impurities (reserpine)	<= 50 ppb
Refractive index at 20°C	At 230 nm	>= 75 %	Metals compounds	
Water (H <sub>2</sub> O)		>= 98 %	Al	<= 50 ppb
Residue on evaporation	Fluorescence liquid (ml)		Fe	<= 50 ppb
Acidity	At 245 nm	<= 1 ppb	Na	<= 50 ppb
Alkalinity	At 250 nm	<= 1 ppb	Ca	<= 50 ppb
Fluoride (F <sup>-</sup> )	UV-C grade (ml)	<= 1 ppb	Mg	<= 50 ppb
Transmittance UV (1 cm, ref. water)	At 225 nm	>= 2 mAU	K	<= 50 ppb

Code	Size	Packaging	Notes
414831	1l	Class: bottle	
414832	2,5l	Class: bottle	

Filtered through 0.1µm membrane. Suitable in LC-MS

DANGER CLASSIFICATION  
CLASSIFICAZIONE DI PERICOLOSITA'  
CLASSIFICATION DE DANGER  
CLASE DE PELIGRO

**Synonym : *Methyl alcohol***

**Danger**  
2.6/2; H225-3.1.O/3; H301-3.1.D/3; H311-3.1.I/3; H331-3.8/1; H370  
P210-P241-P304+P340-P307+P311-P403+P235-P405-P501a

**RS**

>= 30 %	At 254 nm	<= 1 mAU
>= 65 %	Test LC-MS TIC (50-2000m/z) ESI (+)	<= 50 ppb
>= 85 %	Sensitive Impurities (reserpine)	<= 50 ppb
>= 95 %	Metals compounds	
>= 98 %	Al	<= 50 ppb
	Fe	<= 50 ppb
	Na	<= 50 ppb
<= 1 ppb	Ca	<= 50 ppb
<= 1 ppb	Mg	<= 50 ppb
	K	<= 50 ppb
<= 2 mAU		

**Notes**

GRADE  
GRADO  
GRADE  
GRADO

SPECIFICATIONS  
SPECIFICHE  
SPECIFICACIONES  
ESPECIFICACIONES

Les spécifications chimiques de nos produits sont sujettes à changement. Merci de vous référer aux dernières versions à jour présentées sur notre site [www.carloerbareagents.com](http://www.carloerbareagents.com).

Las especificaciones químicas de nuestros productos están sujetas a cambios. Por lo tanto, para las evaluaciones técnicas, por favor consulte la información específica actualizada disponible en nuestro sitio web: [www.carloerbareagents.com](http://www.carloerbareagents.com).

# HOW TO FIND THE PRODUCT FAMILIES

COME TROVARE LE FAMIGLIE DI PRODOTTI / COMMENT TROUVER LES FAMILLES DE PRODUITS / CÓMO ENCONTRAR LAS FAMILIAS DE PRODUCTOS

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# PRODUCTS

PRODOTTI / PRODUITS / PRODUCTOS

1



## Absorbent for spilt liquids

## Absorbent for spilt liquids &gt; RE-Pure

RE

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


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

## Acetal

Synonyms : 1,1-Diethoxyethane  
Acetaldehyde diethyl acetal

CH<sub>3</sub>CH(OC<sub>2</sub>H<sub>5</sub>)<sub>2</sub>  
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**  
2.6/2; H225-3.2/2; H315-3.3/2; H319  
P210-P241-P243-P305+P351+P338-P403+P235-P501a

## Acetal &gt; RE-Pure-Reagent Ph.Eur.


RE

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

Code	Size	Packaging	Notes
400155	100ml	Glass bottle	

## Acetamide

CH<sub>3</sub>CONH<sub>2</sub>  
Molecular Weight 59,07  
CAS : 60-35-5  
EEC-N : 200-473-5

 **Warning**  
3.6/2; H351  
P281-P201-P202-P308+P313-P405-P501a

## Acetamide &gt; RPE-For analysis

RPE


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

Code	Size	Packaging	Notes
400204	100g	Plastic bottle	

## Acetanilide

Synonym : N-Phenylacetamide

CH<sub>3</sub>CONHC<sub>6</sub>H<sub>5</sub>  
Molecular Weight 135,17  
CAS : 103-84-4  
EEC-N : 203-150-7

 **Warning**  
3.1.0/4; H302  
P264-P270-P330-P301+P312-P501a

## Acetanilide &gt; RPE-For analysis

RPE

Description .....Whitish powder Melting point .....111 - 115 °C Residue on ignition .....<= 0.1 %  
Identification.....Positive Water (K.F.).....<= 0.2 % Assay (GLC).....>= 99.0 %

Code	Size	Packaging	Notes
400255	250g	Plastic bottle	

## A Acetate buffer 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	1l	Bottle	Ref Ph.Eur 4002200

## Acetate buffer 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	1l	Bottle	Ref Ph.Eur 4001400

## Acetate buffer pH 4.5

Acetate buffer pH 4.5 > RS-For analysis

RS

Temperature of measurement .....19 - 21 °C pH.....4.3 - 4.7 pH unit


Code	Size	Packaging	Notes
PS0784/95	5l	Kubidos	

Composition : sodium acetate anhydrous 164g/l, acetic acid 168g/l, deionized water 763g/l

## Acetic acid glacial

CH<sub>3</sub>COOH  
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**  
3.2/1A; H314-2.6/3; H226  
P210-P241-P304+P340-P305+P351+P338-P403+P235-P405-P501a

Acetic acid glacial > RS-For LC/MS

RS

Description .....	Clear liquid	Sulphate .....	<=0.5 ppm	Mn .....	<=0.01 ppm
Colour.....	<=10 APHA	Ag .....	<=0.02 ppm	Mo .....	<=0.05 ppm
Identification.....	Positive	Al .....	<=0.05 ppm	Na .....	<=0.5 ppm
Water miscibility .....	Conform	As .....	<=0.01 ppm	Ni .....	<=0.03 ppm
Titrate base .....	Conform	Ba .....	<=0.1 ppm	Pb .....	<=0.02 ppm
Subst. reducing KMnO <sub>4</sub> .....	Conform	Be .....	<=0.02 ppm	Sr .....	<=0.02 ppm
Density at 20° C.....	1.0495 - 1.0503	Bi .....	<=0.02 ppm	Ti .....	<=0.1 ppm
Refractive index at 20° .....	1.3711 - 1.3731	Ca .....	<=0.2 ppm	Tl .....	<=0.05 ppm
Freezing point.....	>=16 °C	Cd .....	<=0.05 ppm	V .....	<=0.05 ppm
Assay (acidimetric) .....	99.5 - 100.5 %	Co .....	<=0.01 ppm	Zn .....	<=0.05 ppm
Residue on evaporation .....	<= 10 ppm	Cr .....	<=0.03 ppm	Zr .....	<=0.1 ppm
Formic acid .....	<=0.05 %	Cu .....	<=0.01 ppm	Reducing chromic acid .....	Conform ACS
Acetic anhydride .....	<=100 ppm	Fe .....	<=0.2 ppm	Acetaldehyde .....	<= 500 ppm
Chloride .....	<=1 ppm	K .....	<=0.1 ppm	<b>Test LC-MS TIC (50-2000m/z) ESI (+)</b>	
Phosphate .....	<=0.5 ppm	Li .....	<=0.02 ppm	Sensitive Impurities (reserpine) .....	<= 100 ppb
Heavy metals (Pb) .....	<=0.5 ppm	Mg .....	<=0.1 ppm		

Code	Size	Packaging	Notes
401411	10x1ml	Glass ampoule	
401412	10x2,5ml	Glass ampoule	
401413	50ml	Plastic bottle	

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

Acetic acid glacial > RS-For HPLC Isocratic

RS

Description .....	Clear colourless liquid	Residue after evaporation .....	<= 0.001 %	At 260 nm.....	>= 80 %
Colour.....	<= 10 APHA	<b>U.V. Transmittance</b>		Water (KF) .....	<= 0.05 %
Assay .....	>= 99.8 %	At 254 nm.....	>= 25 %		

Code	Size	Packaging	Notes
401431	1l	Glass bottle	
401432	2,5l	Glass bottle	

Store at temperature > 20°C

► Acetic acid glacial > RS-Ultrapur - For trace analysis

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

Code	Size	Packaging	Notes
401361	500ml	Plastic bottle	

For all levels of impurities, see the certificate of analysis. Store at temperature above 20 ° C.

► Acetic acid glacial > RS-Superpure-For trace analysis

Assay (acidimetric) .....>= 99 %	Co .....<= 0.1 ppb	Lu .....<= 0.1 ppb	Sn .....<= 0.5 ppb
Description .....Clear colourless liquid	Cr .....<= 1 ppb	Mg .....<= 0.5 ppb	Sr .....<= 0.5 ppb
Colour .....<= 10 APHA	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	
Cd .....<= 0.5 ppb	La .....<= 0.1 ppb	Se .....<= 0.1 ppb	
Ce .....<= 0.1 ppb	Li .....<= 0.1 ppb	Sm .....<= 0.1 ppb	

Code	Size	Packaging	Notes
401405	500ml	Plastic bottle	
401406	1l	Plastic bottle	
401407	2,5l	Plastic bottle	

For all levels of impurities, see the certificate of analysis. Store at temperature > 20 ° C.

► Acetic acid glacial > RS-RSE For electronic use

Assay (acidimetric) .....>=99.9 %	Phosphate .....<=0.1 ppm	Ca .....<=0.2 ppm	Na .....<=0.2 ppm
Description .....Clear liquid	Heavy metals (Pb) .....<=0.2 ppm	Cd .....<=0.01 ppm	Ni .....<=0.03 ppm
Colour .....<=10 APHA	Reducing chromic acid.....<=100 ppm	Co .....<=0.01 ppm	Pb .....<=0.01 ppm
Identification .....Positive	Subst. reducing KMnO4 .....<=10 ppm	Cr .....<=0.03 ppm	Pt .....<=0.05 ppm
Water miscibility .....Conform	Sulphate.....<=0.5 ppm	Cu .....<=0.01 ppm	Sb .....<=0.005 ppm
Freezing point.....>=16.24 °C	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	V .....<=0.05 ppm
Acetic anhydride .....<=100 ppm	Ba .....<=0.1 ppm	Mg .....<=0.05 ppm	Zn .....<=0.05 ppm
Chloride .....<=1 ppm	Be .....<=0.02 ppm	Mn .....<=0.01 ppm	Zr .....<=0.05 ppm
Carbonyl Compounds (CO) .....<=2 ppm	Bi .....<=0.02 ppm	Mo .....<=0.05 ppm	

Code	Size	Packaging	Notes
401462	2,5l	Glass bottle	

Store at temperature > 20°C

► Acetic acid glacial > RS-For potentiometry

Refractive index at 20°C .....1.371 - 1.374	Reducing subst (Na2S2O3 0.1M).....>= 1 ml	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
Titrate base .....Conform	Sulphate (SO4 2-) .....<= 1 mg/Kg	Iron (Fe) .....<= 1 mg/Kg	Arsenic (As) .....<= 0.02 mg/Kg

Code	Size	Packaging	Notes
P00725P15	1l	Plastic bottle	
P00725P21	2,5l	Glass bottle	

Store at temperature > 20°C

Product specifications are subject to changes. Please visit our website for updates.

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

RS

Assay .....>= 99.8 % Identification.....Positive  
Description .....Clear colourless liquid Density at 20° C.....1.049 - 1.051

Code	Size	Packaging	Notes
401453	1l	Glass bottle	
401455	2,5l	Glass bottle	

Store at temperature > 20°C

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

RPE

Assay (acidimetric) .....99.5 - 100.5 % Formic acid .....<=0.05 % Bi .....<=0.02 ppm Na .....<=0.5 ppm  
Description .....Clear liquid Acetic anhydride .....<=100 ppm Ca .....<=0.2 ppm Ni .....<=0.03 ppm  
Colour .....<=10 APHA Chloride .....<=1 ppm Cd .....<=0.05 ppm Pb .....<=0.02 ppm  
Identification .....Positive Carbonyl Compounds (CO) .....<=2 ppm Co .....<=0.01 ppm Sr .....<=0.02 ppm  
Water miscibility .....Conform Phosphate .....<=0.5 ppm Cr .....<=0.03 ppm Tl .....<=0.1 ppm  
Titration base .....Conform Heavy metals (Pb) .....<=0.5 ppm Cu .....<=0.01 ppm Tl .....<=0.05 ppm  
Subst. reducing KMnO4 .....Conform Sulphate .....<=0.5 ppm Fe .....<=0.2 ppm V .....<=0.05 ppm  
Density at 20° C .....1.0501 - 1.0521 Ag .....<=0.02 ppm K .....<=0.1 ppm Zn .....<=0.05 ppm  
Refractive index at 20°C .....1.3711 - 1.3731 Al .....<=0.05 ppm Li .....<=0.02 ppm Zr .....<=0.1 ppm  
Boiling point .....118.3 - 118.8 °C As .....<=0.01 ppm Mg .....<=0.1 ppm Reducing chromic acid .....Conform ACS  
Freezing point .....>=16 °C Ba .....<=0.1 ppm Mn .....<=0.01 ppm Water (K.F.) .....<= 1500 ppm  
Residue on evaporation .....<= 10 ppm Be .....<=0.02 ppm Mo .....<=0.05 ppm Acetaldehyde .....<= 500 ppm

Code	Size	Packaging	Notes
401421	1l	Glass bottle PVC coated	
401422	1l	Glass bottle	
401424	2,5l	Glass bottle	
401425	30kg	Plastic tank	

Store at temperature > 20°C

## Acetic acid glacial > RPE-For analysis

RPE

Assay (CPG) .....>= 99.8 % Formic acid .....<=0.05 % Bi .....<=0.02 ppm Na .....<=0.5 ppm  
Description .....Clear liquid Acetic anhydride .....<=100 ppm Ca .....<=0.2 ppm Ni .....<=0.03 ppm  
Colour .....<=10 APHA Chloride .....<=1 ppm Cd .....<=0.05 ppm Pb .....<=0.02 ppm  
Identification .....Positive Carbonyl Compounds (CO) .....<=2 ppm Co .....<=0.01 ppm Sr .....<=0.02 ppm  
Water miscibility .....Conform Phosphate .....<=0.5 ppm Cr .....<=0.03 ppm Tl .....<=0.1 ppm  
Titration base .....Conform Heavy metals (Pb) .....<=0.5 ppm Cu .....<=0.01 ppm Tl .....<=0.05 ppm  
Subst. reducing KMnO4 .....Conform Sulphate .....<=0.5 ppm Fe .....<=0.2 ppm V .....<=0.05 ppm  
Density at 20° C .....1.0501 - 1.0521 Ag .....<=0.02 ppm K .....<=0.1 ppm Zn .....<=0.05 ppm  
Refractive index at 20°C .....1.3711 - 1.3731 Al .....<=0.05 ppm Li .....<=0.02 ppm Zr .....<=0.1 ppm  
Boiling point .....118.3 - 118.8 °C As .....<=0.01 ppm Mg .....<=0.1 ppm Water (K.F.) .....<= 1500 ppm  
Freezing point .....>=16 °C Ba .....<=0.1 ppm Mn .....<=0.01 ppm Acetaldehyde .....<= 500 ppm  
Assay (acidimetric) .....99.5-100.5 % Be .....<=0.02 ppm Mo .....<=0.05 ppm

Code	Size	Packaging	Notes
401391	1l	Glass bottle	
524520	1l	Plastic bottle	
401392	2,5l	Glass bottle	
524521	2,5l	Plastic bottle	
401396	30kg	Plastic tank	
401397	200kg	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 Refractive index at 20°C .....1.370 - 1.374 Heavy metals (Pb) .....<= 5 ppm  
Identification .....Positive Water (K.F.) .....<= 3000 ppm Fe .....<= 5 ppm  
Appearance of solution .....Conform Ph.Eur. Residue on evaporation .....<= 50 mg/l Assay (acidimetric) .....99.5 - 100.5 %  
Colour .....<= 10 APHA Chloride .....<= 2 mg/l Origin (BSE/TSE) .....Synthesis  
Reducing impurities .....Conform Ph.Eur. Sulphate .....Conform USP-NF Residual solvents (CPMP/ICH/283/95) .....Conform  
Ready oxidizable substances .....Conform USP-NF Sulfate .....Conform USP-NF  
Freezing point .....>= 15.6 °C

Code	Size	Packaging	Notes
302016	1l	Glass bottle	
302011	2,5l	Glass bottle	
302014	5l	Plastic tank	
302015	30kg	Plastic tank	
302013	200kg	Polythene-metal drum	

Store at temperature > 20°C



## Acetic acid glacial > RE-Pure

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

Code	Size	Packaging	Notes
302031	1l	Plastic bottle	
302032	2,5l	Glass bottle	
302034	5l	Plastic tank	
302033	10l	Plastic tank	

Store at temperature > 20°C

## Acetic acid 96%

CH<sub>3</sub>COOH  
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

3.2/1A; H314-2.6/3; H226  
P210-P241-P304+P340-P305+P351+P338-P403+P235-P405-P501a

## Acetic acid 96% > RE-Pure

**RE**

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

Code	Size	Packaging	Notes
302002	1l	Glass bottle	
302003	2,5l	Plastic bottle	
302005	25kg	Plastic tank	
302007	50kg	Plastic tank	

Store at temperature > 20°C

## Acetic acid 80%

CH<sub>3</sub>COOH  
Molecular Weight 60,05  
CAS : 64-19-7  
EEC-N : 200-580-7

### Classification transport

ONU: 2790  
Transport Hazard class: 8  
Packing group II



### Danger

3.2/1A; H314  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

## Acetic acid 80% > RE-Pure

**RE**

Description .....	Clear liquid	Subst. reducing KMnO4 .....	<= 40 ppm	Chloride .....	<= 1 ppm	Cu .....	<= 0.1 ppm
Colour .....	<= 10 APHA	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 acetaldehy .....	<= 50 ppm	Al .....	<= 0.1 ppm	Assay (acidimetric) .....	80.5 - 82.5 %
Density at 20° C .....	1.069 - 1.071	Acetic anhydride .....	<= 500 ppm	As .....	<= 0.4 ppm		

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

Store at temperature > 20°C

## Acetic acid 45%

CH<sub>3</sub>COOH  
Molecular Weight 60,05  
CAS : 64-19-7  
EEC-N : 200-580-7

### Classification transport

ONU: 2790  
Transport Hazard class: 8  
Packing group III



### Danger

3.2/1A; H314  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

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

**RE**

Description .....	Clear colourless liquid	Assay (acetic acid) .....	44 - 46 %
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Code	Size	Packaging	Notes
526545	5l	Plastic tank	
526546	10l	Plastic tank	

# ACE

A

## Acetic acid 30%

CH<sub>3</sub>COOH  
Molecular Weight 60,05  
CAS : 64-19-7  
EEC-N : 200-580-7

### Classification transport

ONU: 2790  
Transport Hazard class: 8  
Packing group III



**Danger**  
3.2/1A; H314  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

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

RS

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

## Acetic acid 28%

CH<sub>3</sub>COOH  
Molecular Weight 60,05  
CAS : 64-19-7  
EEC-N : 200-580-7

### Classification transport

ONU: 2790  
Transport Hazard class: 8  
Packing group III



**Danger**  
3.2/1A; H314  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

### Acetic acid 28% > RE-Pure

RE

Description .....Clear colourless liquid  
Identification.....Positive  
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	1l	Glass bottle	

## Acetic acid 27%

CH<sub>3</sub>COOH  
Molecular Weight 60,05  
CAS : 64-19-7  
EEC-N : 200-580-7

### Classification transport

ONU: 2790  
Transport Hazard class: 8  
Packing group III



**Danger**  
3.2/1A; H314  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

### Acetic acid 27% > RS-Pure- For glassware washing

RS

Code	Size	Packaging	Notes
508645	5l	Plastic tank	

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

## Acetic acid 25%

CH<sub>3</sub>COOH  
Molecular Weight 60,05  
CAS : 64-19-7  
EEC-N : 200-580-7

### Classification transport

ONU: 2790  
Transport Hazard class: 8  
Packing group III



**Danger**  
3.2/1A; H314  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

### Acetic acid 25% > RE-Pure

RE

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

Code	Size	Packaging	Notes
PS0222/52	30l	Plastic tank	

## Acetic acid 17%

CH<sub>3</sub>COOH  
Molecular Weight 60,05  
CAS : 64-19-7  
EEC-N : 200-580-7

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

**Warning**

3.2/2; H315-3.3/2; H319  
P280-P264-P305+P351+P338-P332+P313-P337+P313-P362

## ▶ Acetic acid 17% &gt; RE-Pure-For washing

RE

Assay .....15 - 20 %

Code	Size	Packaging	Notes
PS0808/41	10l	Plastic tank	

## Acetic acid 12%

CH<sub>3</sub>COOH  
Molecular Weight 60,05  
CAS : 64-19-7  
EEC-N : 200-580-7

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

**Warning**

3.2/2; H315-3.3/2; H319  
P280-P264-P305+P351+P338-P332+P313-P337+P313-P362

## ▶ Acetic acid 12% &gt; RS-For analysis according to Ph. Eur. Chap. 4.1.1

RS

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

## ▶ Acetic acid 12% &gt; RPE-For analysis

RPE

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

Code	Size	Packaging	Notes
401531	1l	Plastic bottle	

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

## Acetic acid 1 mol/l (1N)

## ▶ Acetic acid 1 mol/l (1N) &gt; RS-For analysis according to USP

RS

Code	Size	Packaging	Notes
617000171	1l	Plastic bottle	

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

## ▶ Acetic acid 1 mol/l (1N) &gt; RPE-For analysis-Reag. Ph.Eur.-Reag. USP

RPE

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

Code	Size	Packaging	Notes
524605	5l	Plastic tank	

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

## ▶ Acetic acid 1 mol/l (1N) &gt; RPE-For analysis

RPE

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

Code	Size	Packaging	Notes
502000	1l	Plastic bottle	

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

# ACE

A

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

ERBAPharm

Identification (Ph.Eur) .....Conform    Origine (BSE-TSE).....Conform  
 Assay (Ph.Eur) .....0.95 - 1.05 N    Residual solvents (CPMP/ICH/283/95).....Conform

Code	Size	Packaging	Notes
524641	1l	Plastic bottle	

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

## ▶ Acetic acid 0.1 mol/l (0.1N)

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

RPE

Assay (potentiometry).....0.999 - 1.001 N

Code	Size	Packaging	Notes
P3100015	1l	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	Normex	Plastic ampoule	

6,005 g of CH<sub>3</sub>COOH. Volumetric concentrated solution to prepare 1 L of solution 0,1 N.

## ▶ Acetic acid 0.03 mol/l (0.03N)

### ▶ 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	10l	Kubidos	

## ▶ Acetic acid-d<sub>4</sub>

CD<sub>3</sub>COOD  
 CAS : 1186-52-3  
 EEC-N : 214-693-4

### Classification transport

ONU: 2789  
 Transport Hazard class: 8  
 Packing group II



### Danger

3.2/1A; H314-2.6/3; H226  
 P210-P241-P304+P340-P305+P351+P338-P403+P235-P405-P501a

### ▶ Acetic acid-d<sub>4</sub> > RS-For NMR-min 99.5%

RS

Code	Size	Packaging	Notes
P5013A	5ml	Glass ampoule	

### ▶ Acetic acid-d<sub>4</sub> > RS-For NMR-min 99.9%

RS

Code	Size	Packaging	Notes
P5039	10x0,75ml	Glass ampoule	

## ▶ Acetic anhydride

(CH<sub>3</sub>CO)<sub>2</sub>O  
 Molecular Weight 102,09  
 CAS : 108-24-7  
 EEC-N : 203-564-8

### Classification transport

ONU: 1715  
 Transport Hazard class: 8  
 Packing group II



### Danger

2.6/2; H225-3.2/1B; H314-3.1.0/4; H302-3.1.D/4; H312-3.1.I/4; H332-3.8/3; H335-H336  
 P210-P241-P304+P340-P305+P351+P338-P403+P235-P405-P501a

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

RS

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

Storage: protected from light and air

## ▶ Acetic anhydride > RPE-For analysis-ACS

Description .....	Clear liquid	Refractive index at 20°C .....	1.3881 - 1.3931	Chloride .....	<=5 ppm	Fe.....	<=5 ppm
Colour .....	<=20 APHA	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	1l	Glass bottle	
421496	2,5l	Glass bottle	
421493	30kg	Plastic tank	

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	1l	Glass bottle	
316505	2,5l	Glass bottle	
316503	30kg	Plastic tank	
316502	210kg	Metal drum	

Storage: protected from light and air

## Acetone

CH<sub>3</sub>COCH<sub>3</sub>  
Molecular Weight 58,01  
CAS : 67-64-1  
EEC-N : 200-662-2

### Classification transport

ONU: 1090  
Transport Hazard class: 3  
Packing group II


**Danger**

2.6/2; H225-3.3/2; H319-3.8/3; H336-EU066  
P210-P241-P304+P340-P305+P351+P338-P403+P235-P405-P501a

## ▶ Acetone > RS-For HPLC Isocratic

**RS**

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

Code	Size	Packaging	Notes
412501	1l	Glass bottle	
412502	2,5l	Glass bottle	

## ▶ Acetone > RS-ATRASOL- For trace analysis

**RS**

Refractive index at 20°C .....	1.357 - 1.361	Non volatile residue .....	<= 2 mg/Kg	<b>Retention time trichlorobenzene to mirex</b>	
Water content (K.F.).....	<= 500 mg/Kg	Ethanol .....	<= 100 mg/Kg	GC-FID. Individ. peak (hexadecane).....	<= 5 µg/l
Colour .....	<= 10 Hazen	Assay (GC).....	>= 99.8 %	<b>Retention time range over toluene</b>	
Free acid (as CH <sub>3</sub> COOH).....	<= 20 mg/Kg	Methanol .....	<= 500 mg/Kg		
2-Propanol .....	<= 500 mg/Kg	GC-ECD. Individual peak (Lindane).....	<= 2 ng/l		

Code	Size	Packaging	Notes
P0053221	2,5l	Glass bottle	

## ▶ Acetone > RS-PESTIPUR- For pesticide analysis

**RS**

Description .....	Clear liquid	Water .....	<= 0.05 %	GC-NPD (Ethylparathion standard).....	<= 3 ng/l
Identification.....	Positive	Not volatile residue.....	<= 2 mg/kg	Refractive index at 20°C .....	1.357 - 1.361
Colour .....	<= 10 hazen	Free acid (as CH <sub>3</sub> COOH).....	<= 20 mg/kg		
Assay (GLC).....	>= 99.8 %	GC-ECD (Lindane standard).....	<= 3 ng/l		

Code	Size	Packaging	Notes
400991	1l	Glass bottle	
400992000	2,5l	Glass bottle	

Product specifications are subject to changes.  
Please visit our website for updates.

## ▶ Acetone > RS-SPECTROSOL - For optical spectroscopy

RS

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

Code	Size	Packaging	Notes
401034	1l	Glass bottle	
401032	2,5l	Glass bottle	

## ▶ Acetone > RS-Anhydrous-For analysis

RS

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

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

## ▶ Acetone > RS-VLSI For electronic use

RS

Description .....	Clear liquid	Ag .....	<=10 ppb	Cr .....	<=10 ppb	Pb .....	<=10 ppb
Colour .....	<=10 APHA	Al .....	<=50 ppb	Cu .....	<=30 ppb	Sb .....	<=10 ppb
Identification .....	Positive	As .....	<=10 ppb	Fe .....	<=50 ppb	Sn .....	<=10 ppb
Assay (GLC) .....	>=99.5 %	Au .....	<=10 ppb	Ga .....	<=10 ppb	Sr .....	<=10 ppb
Density at 20° C .....	0.790 - 0.792	B .....	<=20 ppb	K .....	<=20 ppb	Ti .....	<=10 ppb
Water (K.F.) .....	<=0.3 %	Ba .....	<=20 ppb	Li .....	<=10 ppb	V .....	<=10 ppb
Residue on evaporation .....	<=5 ppm	Be .....	<=10 ppb	Mg .....	<=20 ppb	Zn .....	<=20 ppb
Acidity .....	<=0.2 meq/g	Bi .....	<=10 ppb	Mn .....	<=10 ppb	Zr .....	<=10 ppb
Alcalinity .....	<=0.5 meq/g	Ca .....	<=50 ppb	Mo .....	<=10 ppb		
Chloride .....	<=0.1 ppm	Cd .....	<=10 ppb	Na .....	<=50 ppb		
Phosphate .....	<=0.5 ppm	Ce .....	<=10 ppb	Ni .....	<=10 ppb		

Code	Size	Packaging	Notes
527650	2,5l	Glass bottle	
527655	5l	Plastic bottle	

Particles control < 250 particles 0.5 µm/ml

## ▶ Acetone > RS-RSE For electronic use

RS

Description .....	Clear liquid	Methyl alcohol .....	<=500 ppm	Bi .....	<=0.02 ppm	Na .....	<=0.2 ppm
Colour .....	<=10 APHA	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 .....	<=0.05 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	1l	Glass bottle	
401058	2,5l	Glass bottle	
401054	5l	Plastic tank	
401055	5l	Metal tank	
401052	22kg	Metal tank	

## ▶ Acetone > RS-MOS- For electronic use

RS

Description .....	Clear liquid	Methyl alcohol .....	<=500 ppm	Bi .....	<=0.02 ppm	Na .....	<=0.2 ppm
Colour .....	<=10 APHA	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
401041	2,5l	Glass bottle	

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

Code	Size	Packaging	Notes
614000100	1l	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	<=10 APHA	Alkalinity	<=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 (GLO)	>=99.8 %
Boiling point	55.8 - 56.3 °C	Heavy metals (Pb)	<=0.2 ppm	Cu	<=0.01 ppm	Related substances (GLO)	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	1l	Plastic bottle	
400971	1l	Glass bottle	
400974	2,5l	Glass bottle	
400962	5l	Plastic tank	
400963	10l	Plastic tank	
400978	16kg	Plastic tank	
400972	22kg	Metal tank	
400979	160kg	Metal drum	

▶ **Acetone** > ERBAPharm-According to pharmacopoeia: BP-NF-Ph.Eur.

ERBAPharm

Description	Clear colourless liquid	Related substances(GLC)	Conform Ph.Eur.	Residue on evaporation	<=40 ppm p/v
Identification	Positive	Reducing substances	Conform Ph.Eur.	Assay (GLO)	>=99 %
Appearance of solution	Conform Ph.Eur.	Density at 20° C	0.790 - 0.793	Origin (BSE/TSE)	Synthesis
Acidity or alkalinity	Conform Ph.Eur.	Water (K.F.)	<=3 g/l	Residual solvents (CPMP/ICH/283/95)	Conform
Water-insoluble matter	Conform Ph.Eur.	Water (GLO)	<=0.5 %		

Code	Size	Packaging	Notes
301505	1l	Glass bottle	
301506	2,5l	Glass bottle	
301502	5l	Aluminium can	
301503	5l	Plastic tank	
301501	16kg	Plastic tank	
301504	22kg	Metal tank	
301507	160kg	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 (GLO)	>=99.8 % (GLO)
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	1l	Glass bottle	
508201	2,5l	Glass bottle	
528203	5l	Plastic tank	
528206	10l	Plastic tank	
528201	25l	Plastic tank	
528204	200l	Metal drum	

**Acetone-d6**

CD<sub>3</sub>COCD<sub>3</sub>  
 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**

2.6/2; H225-3.3/2; H319-3.8/3; H336-EUH066  
 P210-P241-P304+P340-P305+P351+P338-P403+P235-P405-P501a

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

RS

Code	Size	Packaging	Notes
P5049	10x0,75ml	Glass ampoule	
P5044A	10ml	Glass ampoule	
P5044S	5x10ml	Bottle with sept	
P5045	25ml	Glass bottle	
P5046	100ml	Glass bottle	

## ▶ Acetone-d<sub>6</sub> > RS-For NMR-min 99.96%

RS

Code	Size	Packaging	Notes
P5060	10x0,6ml	Glass ampoule	

## Acetonitrile

Synonym : Methyl cyanide

CH<sub>3</sub>CN  
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**

2.6/2; H225-3.1.O/4; H302-3.1.D/4; H312-3.1.I/4; H332-3.3/2; H319  
P210-P241-P304+P340-P305+P351+P338-P403+P235-P501a

## ▶ Acetonitrile > RS-For LC/MS

RS

Description .....	Clear colourless liquid	At 200 nm .....	>= 95 %	Sensitive Impurities (reserpine) .....	<= 50 ppb
Colour .....	<= 10 APHA	At 220 nm .....	>= 98 %	<b>Metals compounds</b>	
Identification (I.R.) .....	Conform	>= 230 nm .....	>= 99 %	Al .....	<= 50 ppb
Refractive index at 20°C .....	1.342 - 1.346	<b>Fluorescence (quinine)</b>		Fe .....	<= 50 ppb
Residue on evaporation .....	<= 2 ppm	At 254 nm .....	<= 1 ppb	Na .....	<= 50 ppb
Acidity .....	<= 0.0005 meq/g	At 365 nm .....	<= 0.5 ppb	Ca .....	<= 50 ppb
Alkalinity .....	<= 0.0002 meq/g	<b>HPLC gradient</b>		Mg .....	<= 50 ppb
Assay (GLC) .....	>= 99.95 %	At 210 nm .....	<= 1 mAU	Water (K.F.) .....	<= 100 ppm
<b>Transmission UV (1cm, ref water)</b>		At 254 nm .....	<= 0.2 mAU		
At 195 nm .....	>= 80 %	<b>Test LC-MS TIC (50-2000m/z) ESI (+)</b>			

Code	Size	Packaging	Notes
412341	1l	Glass bottle	
412342	2,5l	Glass bottle	

Filtered through 0.1 µm membrane. Suitable for use in ULC-MS.

## ▶ Acetonitrile > RS-For HPLC GOLD - Ultragradient

RS

Description .....	Clear liquid	Distillation range .....	80,5 - 82,5 °C	At 450 nm .....	<= 0.5 ppb	At 228 nm .....	>= 99 %
Colour .....	<= 10 APHA	Water (K.F.) .....	<= 100 ppm	<b>Absorbance</b>		From 230 to 420 nm .....	>= 99 %
Identification .....	Positive	Residue on evaporation .....	<= 2 ppm	At 190 nm .....	<= 0.6 AU	<b>Functionality for HPLC</b>	
Miscb. with Acetone .....	Conform	Acidity .....	<= 0.0003 meq/g	At 200 nm .....	<= 0.03 AU	At 210 nm .....	<= 1 mAU
Water miscibility .....	Conform	Alcalinity .....	<= 0.0002 meq/g	At 220 nm .....	<= 0.007 AU	At 254 nm .....	<= 0.2 mAU
Miscibility in ether .....	Conform	Assay (GLC) .....	>= 99.9 %	At 254 nm .....	<= 0.005 AU	Drift at 210 nm .....	<= 12 mAU
Miscibility in methanol .....	Conform	<b>Fluorescence</b>		<b>Transmittance</b>		HPLC Gradient .....	Passed test
Density at 20°C .....	0.781 - 0.785	At 254 nm .....	<= 1 ppb	At 195 nm .....	>= 80 %	UV cut off .....	<= 190 nm
Refractive index at 20°C .....	1.342 - 1.344	At 365 nm .....	<= 0.5 ppb	At 200 nm .....	>= 95 %		

Code	Size	Packaging	Notes
412371000	1l	Glass bottle	
412372000	2,5l	Glass bottle	
412374	4l	Glass bottle	
412375	5l	Aluminium can	

Filtered through 0.1 µm membrane. Suitable for use in UHPLC.

## ▶ Acetonitrile > RS-For HPLC PLUS-Gradient-ACS-Reag.Ph.Eur.-Reag.USB

RS

Description .....	Clear liquid	Assay (GLC) .....	>= 99.9 %	<b>Absorbance</b>	
Colour .....	<= 10 APHA	<b>Fluorescence</b>		At 190 nm .....	<= 1.00 AU
Identification .....	Positive	At 254 nm .....	<= 1 ppb	At 200 nm .....	<= 0.05 AU
Density at 20° C .....	0.781 - 0.785	At 365 nm .....	<= 0.5 ppb	At 220 nm .....	<= 0.05 AU
Refractive index at 20°C .....	1.3420 - 1.3440	At 450 nm .....	<= 0.5 ppb	At 254 nm .....	<= 0.01 AU
Distillation range 95% distils between .....	80 - 82 °C	<b>U.V. Transmittance</b>		Absorbance ACS .....	Pass test
Titration acid .....	<= 0.0008 meq/g	At 195 nm .....	>= 79 %	Gradient elution ACS .....	pass test
Titration base .....	<= 0.0002 meq/g	At 200 nm .....	>= 90 %	<b>Functionality for HPLC</b>	
Residue on evaporation .....	<= 0.0002 %	At 210 nm .....	>= 95 %	At 210 nm .....	<= 2 mAU
Water (K.F.) .....	<= 0.01 %	At 220 nm .....	>= 98 %	At 254 nm .....	<= 0.8 mAU
Litmus paper test .....	Conform	From 255 to 420 nm .....	>= 98 %		

Code	Size	Packaging	Notes
412391000	1l	Glass bottle	
412392000	2,5l	Glass bottle	
412395	5l	Aluminium can	

Filtered through 0.2 µm membrane



## ▶ Acetonitrile > RS-For HPLC Isocratic

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

Code	Size	Packaging	Notes
412411000	1l	Glass bottle	
412412000	2,5l	Glass bottle	

Filtered through 0.2 µm membrane

## ▶ Acetonitrile > RS-For HPLC 230

**RS**

Appearance.....	Clear colourless liquid	Colour.....	<= 10 Hazen	<b>U.V. Transmittance</b>	At 230 nm.....	>= 80 %
Refractive index at 20°C.....	1.342 - 1.346	Non volatile residue.....	<= 5 mg/Kg	At 250 nm.....	>= 98 %	
Density d20/20.....	0.780 - 0.785	Free acid (as CH3COOH).....	<= 20 mg/Kg			
Boiling point.....	80.0 - 82.5 °C	Assay (GC).....	>= 99.9 %			

Code	Size	Packaging	Notes
P00637S16	1l	Glass bottle	
P00637S21	2,5l	Glass bottle	

## ▶ Acetonitrile > RS-For HPLC preparative

**RS**

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

Code	Size	Packaging	Notes
412409	2,5l	Glass bottle	
412407	23l	Metal tank	

## ▶ Acetonitrile > RS-PESTIPUR- For pesticide analysis

**RS**

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

Code	Size	Packaging	Notes
401241	1l	Glass bottle	
401242	2,5l	Glass bottle	

## ▶ Acetonitrile > RS-SPECTROSOL - For optical spectroscopy

**RS**

Description .....	Clear colourless liquid	Boiling point.....	81.1 - 82.1 °C	Assay (GLC).....	>=99.9 %	<b>U.V. Transmittance</b>	at 200 nm.....	>=90 %
Colour.....	<= 10 APHA	Acidity or alkalinity.....	<=0.0008 meq/g	<b>Fluorescence</b>	at 254 nm.....	>=94 %	at 210 nm.....	>=94 %
Density at 20° C.....	0.781 - 0.785	Water (K.F.).....	<=300 ppm		<=1 ppb		at 230 nm.....	>=98 %
Refractive index at 20°C.....	1.3410 - 1.3450	Residue on evaporation.....	<=5 ppm					

Code	Size	Packaging	Notes
401216	1l	Glass bottle	
401212	2,5l	Glass bottle	

## ▶ Acetonitrile > RS-Anhydrous-For analysis

**RS**

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

Code	Size	Packaging	Notes
P0061010	200ml	Bottle with sept	
P00610S10	200ml	Bottle with sept	Water content < 50 ppm
P00610T10	200ml	Bottle with sept	On molecular sieves 3A
P0061016	1l	Glass bottle	
P00610S16	1l	Glass bottle	Water content < 50 ppm
P0061021	2,5l	Glass bottle	
P00610S21	2,5l	Glass bottle	Water content < 50 ppm

Product specifications are subject to changes.  
Please visit our website for updates.

## Acetonitrile > RS-For peptide synthesis

RS

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

Code	Size	Packaging	Notes
P0063510	200ml	Bottle with sept	
P0063516	1l	Glass bottle	
P0063521	2,5l	Glass bottle	

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

RPE

Description.....Clear liquid Water (K.F.).....<= 500 ppm K.....<=0.05 ppm Assay (GLC).....>=99.8 %  
 Identification.....Positive Residue on evaporation .....<=10 ppm Mg.....<=0.05 ppm Colour.....<= 10 APHA  
 Density at 20° C.....0.781 - 0.785 Ca.....<=0.05 ppm Na.....<=1 ppm Acidity.....<= 8 µeq/g  
 Refractive index at 20°C .....1.3410 - 1.3450 Cu.....<=0.05 ppm Pb.....<=0.05 ppm Alkalinity .....<=0.6 µeq/g  
 Boiling point .....81.1 - 82.1 ° C Fe.....<=0.2 ppm Zn.....<=0.5 ppm

Code	Size	Packaging	Notes
401183000	1l	Glass bottle	
401185000	2,5l	Glass bottle	

## Acetonitrile > RE-Pure-For synthesis

RE

Appearance.....Clear colourless liquid Colour .....<= 10 Hazen Free acid (as CH<sub>3</sub>COOH) .....<= 20 mg/Kg  
 Refractive index at 20°C .....1.342 - 1.346 Density d20/20 .....0.780 - 0.785 Non volatile residue .....<= 20 mg/Kg  
 Identification (IP).....Conform Boiling point .....80.0 - 82.5 °C Assay (GC).....>= 99.9 %  
 Colour .....Colourless Water content (K.F.).....<= 500 mg/Kg

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

## Acetonitrile + 0.1% v/v formic acid

### Classification transport

ONU: 1993

Transport Hazard class: 3

Packing group II



2.6/2; H225-3.1.O/4; H302-3.1.D/4; H312-3.1.I/4; H332-3.3/2; H319  
 P210-P241-P304+P340-P305+P351+P338-P403+P235-P501a

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

RS

Description.....Clear colourless liquid At 230 nm.....>= 15 % Fe.....<= 0.5 ppm  
 Colour.....<= 10 APHA At 254 nm.....>= 90 % Ca.....<= 0.5 ppm  
 Acidity (formic acid).....0.095 - 0.105 % Assay (CPG).....>= 99.5 % Mg.....<= 0.5 ppm  
**HPLC Gradient** At 254 nm.....<= 50 mAU **Test LC-MS TIC (100-2000m/z)** Na.....<= 2 ppm  
**Transmittance** At 210 nm.....>= 5 % Sensitive Impurities (reserpine).....<= 50 ppb **Metals content** K.....<= 0.5 ppm  
 At 230 nm.....>= 50 % Al.....<= 0.5 ppm

Code	Size	Packaging	Notes
412331	1l	Glass bottle	
412332	2,5l	Glass bottle	

## Acetonitrile + 0.1% v/v trifluoroacetic acid

### Classification transport

ONU: 1993

Transport Hazard class: 3

Packing group II



2.6/2; H225-3.1.O/4; H302-3.1.D/4; H312-3.1.I/4; H332-3.3/2; H319  
 P210-P241-P304+P340-P305+P351+P338-P403+P235-P501a

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

RS

Description.....Clear colourless liquid At 254 nm.....>= 90 % Na.....<= 2 ppm  
 Assay (GLC).....>= 99.5 % **HPLC gradient** At 254 nm.....<= 10 mAU Ca.....<= 0.5 ppm  
**Transmission UV (1cm, ref water)** At 210 nm.....>= 30 **Test LC-MS TIC (50-2000m/z) ESI (+)** Mg.....<= 0.5 ppm  
 At 230 nm.....>= 50 % Sensitive Impurities (reserpine).....<= 100 ppb K.....<= 0.5 ppm  
 Formic acid.....0.093-0.107 %

Code	Size	Packaging	Notes
412321	1l	Glass bottle	
412322	2,5l	Glass bottle	

Acetonitrile-d<sub>3</sub>

CD<sub>3</sub>CN  
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**  
2.6/2; H225-3.1.O/4; H302-3.1.D/4; H312-3.1.I/4; H332-3.3/2; H319  
P210-P241-P304+P340-P305+P351+P338-P403+P235-P501a

Acetonitrile-d<sub>3</sub> > RS-For NMR-min 99.8%

RS

Code	Size	Packaging	Notes
P5070	2x0,6ml	Glass ampoule	
P5079	10x0,75ml	Glass ampoule	
P5073A	5ml	Glass ampoule	

## Acetophenone

Synonym : Methyl phenyl ketone

C<sub>6</sub>H<sub>5</sub>COCH<sub>3</sub>  
Molecular Weight 120,15  
CAS : 98-86-2  
EEC-N : 202-708-7



**Warning**  
3.1.O/4; H302-3.3/2; H319  
P280-P305+P351+P338-P330-P337+P313-P301+P312-P501a

## Acetophenone &gt; 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	1L	Glass bottle	

## Acetylacetone

Synonym : 2,4-Pentanedione

CH<sub>3</sub>COCH<sub>2</sub>COCH<sub>3</sub>  
Molecular Weight 100,11  
CAS : 123-54-6  
EEC-N : 204-634-0

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



**Warning**  
2.6/3; H226-3.1.O/4; H302  
P210-P241-P243-P330-P403+P235-P501a

## Acetylacetone &gt; 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 ..... 1.4480 - 1.4530  
Water (K.F.) ..... <=0.1 %  
Residue on evaporation ..... <=100 ppm  
Assay (GLC) ..... >=99.5 %

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

## Acetylcholine bromide

(CH<sub>3</sub>)<sub>3</sub>N(Br)CH<sub>2</sub>CH<sub>2</sub>OCOCH<sub>3</sub>  
Molecular Weight 226,11  
CAS : 66-23-9  
EEC-N : 200-622-4



**Warning**  
3.2/2; H315-3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

## Acetylcholine bromide &gt; RPE-For analysis

RPE

Description ..... White crystals  
Identification ..... Positive  
Alcohol solubility ..... Conform  
pH 10% at 25° C ..... 3.6 - 5.6  
Loss on drying ..... <=0.5 %  
Ammonium ..... <=20 ppm  
Water-insoluble matter ..... <=100 ppm  
Heavy metals (Pb) ..... <=10 ppm  
Residue on ignition ..... <=500 ppm  
Sulphate ..... <=500 ppm  
As ..... <=1 ppm  
Fe ..... <=5 ppm  
Assay (non-aqueous medium) ..... 99.5 - 100.0 %  
Assay (argentimetric) ..... 99.5 - 100.0 %

Code	Size	Packaging	Notes
400553	50g	Glass bottle	

# ACE

A

## n-Acetylcysteine

HSCH<sub>2</sub>CH(NHCOCH<sub>3</sub>)COOH  
 Molecular Weight 163,19  
 CAS : 616-91-1  
 EEC-N : 210-498-3

### n-Acetylcysteine > RPE-For analysis

RPE

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

Code	Size	Packaging	Notes
400522	100g	Glass bottle	

## p-Acetylphenetidine

Synonyms : *Phenacetin*  
*4' -Ethoxyacetanilide*

C<sub>2</sub>H<sub>5</sub>OC<sub>6</sub>H<sub>4</sub>NHCOCH<sub>3</sub>  
 Molecular Weight 179,22  
 CAS : 62-44-2  
 EEC-N : 200-533-0



**Warning**  
 3.1.O/4; H302-3.1.D/4; H312-3.1.I/4; H332  
 P261-P271-P280-P304+P340-P312-P501a

### p-Acetylphenetidine > RE-Pure

RE

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

Code	Size	Packaging	Notes
300857	1kg	Plastic bottle	

## 1-Acetyl-2-phenylhydrazine

C<sub>6</sub>H<sub>5</sub>NHNHCOCH<sub>3</sub>  
 Molecular Weight 150,18  
 CAS : 114-83-0  
 EEC-N : 204-055-3



**Danger**  
 3.1.O/3; H301-3.1.D/4; H312-3.1.I/4; H332  
 P261-P271-P280-P304+P340-P405-P501a

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

RPE

Description.....White crystalline powder Melting point .....128 - 132 ° C  
 Identification.....Positive Assay .....>= 97.5 %

Code	Size	Packaging	Notes
400672	25g	Glass bottle	

## ACh ▶ Acetylcholine bromide

## ACN ▶ Acetonitrile

## ADF Solution

### Classification transport

ONU: 1760  
 Transport Hazard class: 8  
 Packing group III



**Danger**  
 3.3/1; H318-3.2/2; H315  
 P280-P264-P305+P351+P338-P332+P313-P362-P302+P352

### ADF Solution > RPE-For analysis

RPE

Density at 20°C.....1.020 - 1.040

Code	Size	Packaging	Notes
526625	2,5l	Plastic bottle	
526623	10l	Plastic tank	

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

## Adipic acid

Synonym : Hexanedioic acid

HOOC(CH<sub>2</sub>)<sub>4</sub>COOH  
Molecular Weight 146,14  
CAS : 124-04-9  
EEC-N : 204-673-3



Warning

3.3/2; H319  
P280-P264-P305+P351+P338-P337+P313

## Adipic acid &gt; RPE-For analysis

RPE

Description .....White crystalline powder Melting point .....151 - 153 °C HNO<sub>3</sub> .....<= 4 ppm  
Identification.....Positive Water .....<= 0.2 % Assay (acidimetric) .....>= 99 %  
Solution colour.....<= 5 APHA Residue on ignition .....<= 0.0002 %

Code	Size	Packaging	Notes
401785	250g	Plastic bottle	
401787	2,5kg	Plastic bottle	

## Adsorbents

Metaphosphoric acid.....319	Calcium sulfate hemihydrate.....108	Potassium hydroxide, pellets.....410
Orthophosphoric acid 99% .....365	Soda lime .....461	Sodium carbonate anhydrous .....468
Sulfuric acid 96%.....527	Copper (II) sulfate anhydrous .....141	Sodium hydroxide, pellets .....477
Aluminum oxide activated.....25	Silica gel granular with indicator cobalt free .....453	Sodium hydroxide, pearls .....477
Acetic anhydride .....8	Lithium chloride .....295	Sodium, metallic .....463
Phosphorus pentoxide .....392	Magnesium oxide .....304	Sodium sulfate anhydrous .....501
Calcium chloride fused .....102	Magnesium perchlorate .....305	Sodium sulfate anhydrous .....501
Calcium chloride anhydrous .....100	Magnesium sulfate anhydrous .....306	Zinc chloride anhydrous .....583
Calcium oxide, lumps .....105	Potassium carbonate .....400	

## Adsorption indicators

Alizarin .....18	Eosin Y solution aqueous .....183	Chlorophenol red solution 0.4% in ethanol .....126
Bromophenol blue solution 0.02% .....79	Eosin Y .....182	Methyl red.....333
Bromophenol blue solution 0.4% in ethanol .....79	Erythrosin extra B .....185	Neutral red .....346
Bromophenol blue .....79	Fluorescein sodium salt .....208	Bromophenol blue solution .....80
Bromothymol blue 0.02% .....80	Bromocresol purple solution 0.4% in ethanol .....78	Bromothymol blue solution .....80
Bromothymol blue 0.4% in ethanol.....80	Bromocresol purple .....78	Bromocresol purple solution .....78
Bromothymol blue .....80	Alizarin red .....19	sym-Diphenylcarbazone .....180
Eosin B .....182	Congo red .....135	

## Albumin from eggs powder

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

## Albumin from eggs powder &gt; RE-Pure

RE

Description .....White powder pH .....6.0 - 8.0  
Identification.....Positive Water .....<=8.0 %

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

## Albumin from eggs, dried

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

## Albumin from eggs, dried &gt; RS-For biochemistry

RS

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

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

## Alcian Blue 8GS 1%

C<sub>56</sub>H<sub>68</sub>N<sub>16</sub>Cu<sub>4</sub>Cl<sub>4</sub>  
CAS : 33864-99-2



**Danger**

3.3/1; H318-3.2/2; H315  
P280-P264-P305+P351+P338-P332+P313-P362-P302+P352

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

RS

Description.....Blue clear liquid Identification.....Positive Absorbance at 610 nm .....0.14 - 0.18 AU

Code	Size	Packaging	Notes
428551	250ml	Glass bottle	

## Alcian blue 8GX

C<sub>56</sub>H<sub>68</sub>N<sub>16</sub>Cu<sub>4</sub>Cl<sub>4</sub>  
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	25g	Glass bottle	

*Dye for histochemistry.*

## Alcohol-ether mixture

### Classification transport

ONU: 1993  
Transport Hazard class: 3  
Packing group II



**Danger**

2.6/2; H225-3.1.0/4; H302-3.8/3; H336-EUH019  
P210-P241-P304+P340-P403+P235-P405-P501a

### Alcohol-ether mixture > RPE-For analysis

RPE

Description .....Clear colourless liquid Identification.....Positive Density at 20° C.....0.740 - 0.750

Code	Size	Packaging	Notes
463251	1l	Glass bottle	
463255	2,5l	Glass bottle	

*Contains Phenolphthalein*

## Alizarin

C<sub>14</sub>H<sub>8</sub>O<sub>4</sub>  
Molecular Weight 240,21  
CAS : 72-48-0  
EEC-N : 200-782-5



**Warning**

3.1.0/4; H302  
P264-P270-P330-P301+P312-P501a

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

RPE

Description.....Orange red powder Loss on drying .....<=2 % Assay .....>=96.0 %  
Identification.....Positive Aluminium sensitivity.....>=0.1 µg/ml

Code	Size	Packaging	Notes
415892	25g	Glass bottle	

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

## Alizarin red

C<sub>14</sub>H<sub>7</sub>NaO<sub>7</sub>S  
 Molecular Weight 364,24  
 CAS : 130-22-3  
 EEC-N : 204-981-8

## Alizarin red &gt; RPE-For analysis-C.I. 58005

RPE

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

Code	Size	Packaging	Notes
416002	25g	Glass bottle	

## Alizarin saturated solution in ethanol

C<sub>14</sub>H<sub>8</sub>O<sub>4</sub>  
 CAS : 72-48-0

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

**Danger**

2.6/2; H225  
 P210-P241-P243-P303+P361+P353-P403+P235-P501a

## Alizarin saturated solution in ethanol &gt; RPE-For analysis

RPE

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

Code	Size	Packaging	Notes
E415932	250ml	Glass bottle	

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

## Alizarin yellow R

C<sub>13</sub>H<sub>9</sub>N<sub>3</sub>O<sub>5</sub>  
 Molecular Weight 287,23  
 CAS : 2243-76-7  
 EEC-N : 218-818-3

**Warning**

3.1.0/4; H302-3.3/2; H319  
 P280-P305+P351+P338-P330-P337+P313-P301+P312-P501a

## Alizarin yellow R &gt; RPE-For analysis-C.I. 14030

RPE

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

Code	Size	Packaging	Notes
453451	10g	Glass bottle	

*Michaelis indicator series.*

## Alkali blue 6B

C<sub>37</sub>H<sub>29</sub>N<sub>3</sub>O<sub>3</sub>S  
 Molecular Weight 595,72  
 CAS : 1324-76-1  
 EEC-N : 215-385-2

## Alkali blue 6B &gt; RS-For microscopy-C.I. 42765

RS

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

Code	Size	Packaging	Notes
428532	25g	Glass bottle	

*Dye for cytology*

# ALK

A

## Alkali Blue 6B solution 2% in ethanol

C32H28Na3NaO4S  
CAS : 1324-76-1  
EEC-N : 215-385-2

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



**Danger**  
2.6/2; H225  
P210-P241-P243-P303+P361+P353-P403+P235-P501a

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

RPE

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

Code	Size	Packaging	Notes
E428541	250ml	Glass bottle	

## β-Alanine

NH2CH2CH2COOH  
Molecular Weight 89,09  
CAS : 107-95-9  
EEC-N : 203-536-5

### β-Alanine > RPE-For analysis

RPE

Description .....White crystalline powder Chloride .....<= 400 ppm Fe.....<= 30 ppm  
Identification.....Positive Heavy metals (Pb).....<= 10 ppm Assay (non-aqueous medium).....99.0 - 101.0 %  
Loss on drying .....<= 0.2 % Residue on ignition .....<= 0.2 %  
Ammonium .....<= 200 ppm Sulphate .....<= 480 ppm

Code	Size	Packaging	Notes
413603	50g	Glass bottle	

## Allylthiourea

CH2:CHCH2NHCSNH2  
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**  
3.1.O/3; H301  
P264-P270-P301+P310-P330-P405-P501a

### Allylthiourea > RPE-For analysis

RPE

Description .....White crystalline powder Melting point .....70 - 78 ° C Assay (ex nitrogen).....97.5 - 102.5 %  
Identification.....Positive loss on drying (50°C).....<= 1.5 %

Code	Size	Packaging	Notes
416281	25g	Glass bottle	

## Alumina ▶ Aluminum hydroxide

## Alumina blue

Al2O3  
Molecular Weight 101,96  
CAS : 1344-28-1  
EEC-N : 215-691-6

### Alumina blue > RS-For metallography (Hard metals)

RS

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

Code	Size	Packaging	Notes
416501	120g	Bottle	



**Alumina red**

Al<sub>2</sub>O<sub>3</sub>  
 Molecular Weight 101,96  
 CAS : 1344-28-1  
 EEC-N : 215-691-6

**Alumina red > RS-For metallography (Soft metals)**

RS

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

Code	Size	Packaging	Notes
416561	120g	Bottle	

**Alumina white**

Al<sub>2</sub>O<sub>3</sub>  
 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	120g	Bottle	

**Alumina yellow**

Al<sub>2</sub>O<sub>3</sub>  
 Molecular Weight 101,96  
 CAS : 1344-28-1  
 EEC-N : 215-691-6

**Alumina yellow > RS-For metallography (High degree finish)**

RS

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

Code	Size	Packaging	Notes
416521	120g	Bottle	

**Aluminum standard solution**

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

RS

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

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

RS

Code	Size	Packaging	Notes
505306	50ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505307	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505308	100ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid

Product specifications are subject to changes.  
 Please visit our website for updates.

## ▶ Aluminum standard solution > RS-Standard for ICP

RS

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

## ▶ Aluminum standard solution > RS-Standard for AAS

RS

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

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

## ▶ 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	Normex	Plastic ampoule	conc. 1.000 ppm Matrix : Nitric acid

## ▶ Aluminum, powder

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**

2.10/1; H250-2.12/2; H261  
P210-P222-P231+P232-P335+P334-P422a-P501a

## ▶ 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	1kg	Metallic can	
416815	25kg	Drum	

## ▶ Aluminum ammonium sulfate dodecahydrate

Synonym : Ammonium alum

AlNH<sub>4</sub>(SO<sub>4</sub>)<sub>2</sub>·12H<sub>2</sub>O  
Molecular Weight 453,34  
CAS : 7784-26-1



**Warning**

3.2/2; H315-3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

## ▶ Aluminum ammonium sulfate dodecahydrate > RPE-For analysis

RPE

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

Code	Size	Packaging	Notes
416897	1kg	Plastic bottle	
416896	10kg	Plastic bottle	
416892	25kg	Drum	
416894	50kg	Fibre drum	

## ▶ Aluminum ammonium sulfate dodecahydrate > RE-Pure

RE


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

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

## Aluminum chloride anhydrous

AlCl<sub>3</sub>  
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**  
3.2/1B; H314  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

### Aluminum chloride anhydrous > RE-Pure


RE

Description .....Yellowish powder Heavy metals (Pb) .....<= 75 ppm Assay (complexometric) .....>= 99.0 %  
Identification .....Positive Fe .....<= 100 ppm

Code	Size	Packaging	Notes
416996	500g	Glass bottle	

## Aluminum chloride hexahydrate

AlCl<sub>3</sub>.6H<sub>2</sub>O  
Molecular Weight 241,44  
CAS : 7784-13-6  
EEC-N : 231-208-1

 **Warning**  
3.1.0/4; H302-3.2/2; H315-3.3/2; H319  
P280-P305+P351+P338-P330-P332+P313-P337+P313-P501a

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

RPE

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

Code	Size	Packaging	Notes
416947	1kg	Plastic bottle	
416949	5kg	Plastic bottle	
416942	25kg	Drum	

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


ERBAPharm

Description .....White crystals Heavy metals (Pb) .....<= 20 ppm Assay (complexometric) .....95.0 - 102.0 % s.s.  
Identification .....Positive Fe .....<= 10 ppm Assay (complexometric) .....95.0 - 101.0 % t.q.  
Water (K.F) .....42.0 - 48.0 % Appearance of solution .....Conform Ph.Eur.  
Alkaline,alk.earth met. ....<= 0.5 % Sulphate .....<= 100 ppm

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

## Aluminum hydroxide

Al(OH)<sub>3</sub>  
Molecular Weight 78  
CAS : 21645-51-2  
EEC-N : 244-492-7

 **Warning**  
3.3/2; H319  
P280-P264-P305+P351+P338-P337+P313

### Aluminum hydroxide > RPE-For analysis

RPE

Description .....White powder Silicate .....<= 0.01 % Assay (complexometric) .....>= 99.5 %  
Identification .....Positive Fe<sub>2</sub>O<sub>3</sub> .....<= 100 ppm  
Humidity (H<sub>2</sub>O) .....<= 0.7 % Na<sub>2</sub>O (tot.) .....<= 0.3 %

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

# ALU

A

## ▶ Aluminum hydroxide > RE-Pure

RE

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

Code	Size	Packaging	Notes
311734	1kg	Plastic bottle	

## ▶ Aluminum nitrate nonahydrate

Al(NO<sub>3</sub>)<sub>3</sub>·9H<sub>2</sub>O  
 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

2.14/2; H272-3.1.0/3; H301-3.2/2; H315-3.3/2; H319  
 P210-P221-P280-P305+P351+P338-P405-P501a

## ▶ Aluminum nitrate nonahydrate > RPE-For analysis

RPE

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

Code	Size	Packaging	Notes
417097	1kg	Plastic bottle	

## ▶ Aluminum nitrate nonahydrate > RE-Pure

RE

Description.....transparent crystals Chloride .....<= 20 ppm Fe.....<= 20 ppm  
 Identification.....Positive Heavy metals (Pb).....<= 20 ppm Assay (complexometric).....>= 99 %  
 pH solution 5% .....2.5 - 3.5 Sulphate .....<= 50 ppm

Code	Size	Packaging	Notes
312007	1kg	Plastic bottle	

## ▶ Aluminum oxide

Synonym : Alumina

Al<sub>2</sub>O<sub>3</sub>  
 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 NH<sub>4</sub>OH .....<=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
417145	250g	Plastic bottle	
417147	1kg	Plastic bottle	

## ▶ Aluminum oxide > RE-Pure

RE

Description.....White powder Fe<sub>2</sub>O<sub>3</sub>.....<= 300 ppm Si .....<= 300 ppm  
 Identification.....Positive Na<sub>2</sub>O .....<= 0.3 % Assay (complexometric).....>= 99.5 %

Code	Size	Packaging	Notes
312258	2,5kg	Plastic bottle	
312259	5kg	Plastic bottle	
312252	25kg	Drum	

**Aluminum oxide (acid)**

Al<sub>2</sub>O<sub>3</sub>  
 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	250g	Plastic bottle	
417182	1kg	Plastic bottle	

**Aluminum oxide (basic)**

Al<sub>2</sub>O<sub>3</sub>  
 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	100g	Plastic bottle	
417217	1kg	Plastic bottle	

**Aluminum oxide (neutral)**

Al<sub>2</sub>O<sub>3</sub>  
 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 pH suspension 10% H<sub>2</sub>O .....6.5 - 7.5 Na<sub>2</sub>O .....<= 0.4 %  
 Identification.....Positive Fe<sub>2</sub>O<sub>3</sub>.....<= 0.03 %  
 Activity grade 1 .....Conform SiO<sub>2</sub>.....<= 0.03 %

Code	Size	Packaging	Notes
417245	250g	Plastic bottle	
417241	1kg	Plastic bottle	
417248	2,5kg	Plastic bottle	

**Aluminum oxide activated**

Al<sub>2</sub>O<sub>3</sub>  
 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	1kg	Plastic bottle	

## Aluminum potassium sulfate dodecahydrate Synonyms : Potassium alum Potassium aluminum sulfate dodecahydrate

$KAl(SO_4)_2 \cdot 12H_2O$   
Molecular Weight 474,39  
CAS : 7784-24-9

### Aluminum potassium sulfate dodecahydrate > RPE-For analysis-ACS

RPE

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

Code	Size	Packaging	Notes
417297	1kg	Plastic bottle	

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

ERBAPharm

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

Code	Size	Packaging	Notes
312401	1kg	Plastic bottle	
312402	10kg	Plastic bottle	

### Aluminum potassium sulfate dodecahydrate > RE-Pure

RE

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

Code	Size	Packaging	Notes
312508	2,5kg	Plastic bottle	
312502	25kg	Drum	

## Aluminum sulfate

$Al_2(SO_4)_3 \cdot 18H_2O$   
Molecular Weight 666,42  
CAS : 7784-31-8  
EEC-N : 233-135-0



**Danger**

3.3/1; H318  
P280-P305+P351+P338-P310

### Aluminum sulfate > RPE-For analysis-ACS

RPE

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

Code	Size	Packaging	Notes
417427	1kg	Plastic bottle	

### Aluminum sulfate > RE-Pure

RE

Description.....White crystals Heavy metals (Pb).....<=50 ppm Assay (complexometric).....16 - 18 % (Al<sub>2</sub>O<sub>3</sub>)  
Identification.....Positive Fe.....<=100 ppm

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

## Amidoschwarz B 10 solution



**Warning**

3.3/2; H319  
P280-P264-P305+P351+P338-P337+P313

### Amidoschwarz B 10 solution > RS-For agroalimentary analysis

RS

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

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

## p-Aminobenzoic acid

H<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>COOH  
Molecular Weight 137,14  
CAS : 150-13-0  
EEC-N : 205-753-0



## Warning

3.1.O/4; H302-3.2/2; H315-3.3/2; H319-3.4.S/1; H317-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

## p-Aminobenzoic acid &gt; 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	100g	Plastic bottle	

## Aminohippuric acid reagent

## Aminohippuric acid reagent &gt; RS-For analysis according to Ph. Eur. Chap. 4.1.1

RS

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

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

NH<sub>2</sub>C<sub>10</sub>H<sub>5</sub>(OH)SO<sub>3</sub>H  
Molecular Weight 239,25  
CAS : 116-63-2  
EEC-N : 204-147-3

## 1-Amino-2-naphthol-4-sulfonic acid &gt; 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	25g	Glass bottle	

For the determination of phosphates.

## 4-Aminophenazon

C<sub>6</sub>H<sub>5</sub>NN(CH<sub>3</sub>)C(CH<sub>3</sub>):C(NH<sub>2</sub>)CO  
Molecular Weight 203,25  
CAS : 83-07-8  
EEC-N : 201-452-3



## Warning

3.1.O/4; H302  
P264-P270-P330-P301+P312-P501a

## 4-Aminophenazon &gt; RS-For phenol detection

RS

Description ..... Yellowish crystalline powder Melting point ..... 105.5 - 110 °C Residue on ignition ..... <= 0.1 %  
Identification ..... Positive Loss on drying ..... <= 1.5 % Assay (non-aqueous medium) ..... >= 97.5 % (s.s.)

Code	Size	Packaging	Notes
418381	25g	Glass bottle	

## m-Aminophenol

Synonym : m-Hydroxyaniline

NH<sub>2</sub>C<sub>6</sub>H<sub>4</sub>OH  
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

3.1.O/4; H302-3.1.I/4; H332-4.1.C/2; H411  
P261-P271-P304+P340-P312-P330-P501a

## m-Aminophenol &gt; RE-Pure

RE

Description ..... Yellowish powder Melting point ..... 121.5 - 124.5 °C Assay (ex nitrogen) ..... >=98 %  
Identification ..... Positive Residue on ignition ..... <=0.1 %

Code	Size	Packaging	Notes
418564	100g	Glass bottle	

## p-Aminophenol

Synonym : *p*-Hydroxyaniline

NH<sub>2</sub>C<sub>6</sub>H<sub>4</sub>OH  
Molecular Weight 109,12  
CAS : 123-30-8  
EEC-N : 204-616-2

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

**Warning**  
3.5/2; H341-4.1.A/1; H400-4.1.C/1; H410-3.1.O/4; H302-3.1.I/4; H332  
P261-P271-P304+P340-P308+P313-P405-P501a

### p-Aminophenol > RE-Pure

RE

Description ..... White powder or yellow Residue on ignition ..... <= 2.5 %  
Identification ..... Positive Assay (GLC) ..... >= 96.0 %

Code	Size	Packaging	Notes
418594	100g	Glass bottle	

## Amman's lactophenol solution

**Classification transport**  
ONU: 2927  
Transport Hazard class: 6.1  
Packing group II

**Danger**  
3.1.I/3; H331-3.2/1B; H314-3.5/2; H341-3.9/2; H373-3.1.O/4; H302  
P260-P261-P304+P340-P305+P351+P338-P405-P501a

### 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	100ml	Glass bottle	

Dye for bacteriology. Contains phenol.

## Ammonia solution 32%

NH<sub>4</sub>OH  
Molecular Weight 35,046  
CAS : 1336-21-6

**Classification transport**  
ONU: 2672  
Transport Hazard class: 8  
Packing group III

**Danger**  
3.2/1B; H314-4.1.A/1; H400-3.8/3; H335  
P260-P261-P304+P340-P305+P351+P338-P405-P501a

### Ammonia solution 32% > RE-Pure

RE

Description ..... Clear liquid Identification ..... Positive Assay (alcalimetric) ..... 28 - 34 %  
Colour ..... <= 10 APHA Density at 20°C ..... 0.880 - 0.898

Code	Size	Packaging	Notes
528503	5l	Plastic tank	
528501	18kg	Plastic tank	

## Ammonia solution 30%

NH<sub>4</sub>OH  
Molecular Weight 35,046  
CAS : 1336-21-6

**Classification transport**  
ONU: 2672  
Transport Hazard class: 8  
Packing group III

**Danger**  
3.2/1B; H314-4.1.A/1; H400-3.8/3; H335  
P260-P261-P304+P340-P305+P351+P338-P405-P501a

### Ammonia solution 30% > RS-RSE For electronic use

RS

Description ..... Clear liquid Ag ..... <=0.02 ppm Cu ..... <=0.01 ppm Pt ..... <=0.05 ppm  
Colour ..... <=10 APHA 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 ..... 0.892 - 0.910 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 KMnO<sub>4</sub> ..... <=5 ppm Cd ..... <=0.01 ppm Na ..... <=0.5 ppm Zr ..... <=0.05 ppm  
Sulphate ..... <=1 ppm Co ..... <=0.01 ppm Ni ..... <=0.01 ppm  
Assay (alcalimetric) ..... 28 - 32 % Cr ..... <=0.01 ppm Pb ..... <=0.01 ppm

Code	Size	Packaging	Notes
420071	1l	Glass bottle	
420073	2l	Glass bottle	
420077	5l	Plastic bottle	
420075	25kg	Plastic tank	



### Ammonia solution 30% > RS-Nuclear

Description .....	Clear liquid	Chloride (Cl-) .....	<= 5 ppm	Cu .....	<= 10 ppm	Assay (alkalimetric) .....	20 - 35 %
Colour .....	<= 10 APHA	Sulphate .....	<= 5 ppm	Fe .....	<= 10 ppm		
Identification .....	Positive	Heavy metals .....	<= 0.5 ppm	Na .....	<= 5 ppm		
Density at 20° C .....	0.88 - 0.92	Residue on evaporation .....	<= 200 ppm	Zn .....	<= 10 ppm		

Code	Size	Packaging	Notes
526503	27kg	Drum	
526501	190kg	Plastic drum	

### Ammonia solution 30% > RPE-For analysis-ACS

## RPE

Description .....	Clear colourless liquid	Heavy metals (Pb) .....	<=0.4 ppm	Cd .....	<=0.01 ppm	Na .....	<=1 ppm
Colour .....	<=10 APHA	Subst. reducing KMnO4 .....	<=8 ppm(5m)	Co .....	<=0.01 ppm	Ni .....	<=0.02 ppm
Identification .....	Positive	Silicate .....	<=10 ppm	Cr .....	<=0.02 ppm	Pb .....	<=0.02 ppm
Assay (alkalimetric) .....	28.0 - 30.0 %	Sulphide .....	<=0.1 ppm	Cu .....	<=0.02 ppm	Zn .....	<=0.05 ppm
Density at 20° C .....	0.892 - 0.910	Sulphate .....	<=2 ppm	Fe .....	<=0.05 ppm	Nitrate .....	<=2 ppm
Carbonate .....	<=10 ppm	Ag .....	<=0.02 ppm	K .....	<=0.2 ppm	Residue on ignition .....	<=20 ppm
Chloride .....	<=0.5 ppm	As .....	<=0.02 ppm	Mg .....	<=0.1 ppm		
Phosphate .....	<=0.3 ppm	Ca .....	<=0.5 ppm	Mn .....	<=0.01 ppm		

Code	Size	Packaging	Notes
419941	1l	Glass bottle	
419943	2l	Glass bottle	
419948	2l	Plastic bottle	
419945	5l	Plastic tank	
419946	25kg	Plastic tank	

### 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	2l	Glass bottle	
314871	25kg	Plastic tank	

## Ammonia solution 28%

NH<sub>4</sub>OH  
Molecular Weight 35,046  
CAS : 1336-21-6

**Classification transport**  
ONU: 2672  
Transport Hazard class: 8  
Packing group III

 **Danger**  
3.2/1B; H314-4.1.A/1; H400-3.8/3; H335  
P260-P261-P304+P340-P305+P351+P338-P405-P501a

### Ammonia solution 28% > ERBAPharm-According to pharmacopoeia:NF-FU-Ph.Eur.

## ERBAPharm

Description .....	Clear colourless liquid	Chloride .....	<= 1 ppm	Assay (alkalimetric) .....	27.0 - 30.0 % NH <sub>3</sub>
Identification .....	Positive	Sulphate .....	<= 5 ppm	Ready oxidizable substances .....	Conform Ph.Eur.
Appearance of solution .....	Conform Ph.Eur.	Heavy metals (Pb) .....	<= 1 ppm	Pyridine and homologues .....	Conform Ph.Eur.
Density at 20° C .....	0.892 - 0.910	Fe .....	<= 0.25 ppm	Origin (BSE/TSE) .....	Synthesis
Carbonate .....	<= 60 ppm	Non volat.substances .....	<= 0.002 % m/v		

Code	Size	Packaging	Notes
314861	1l	Glass bottle	26° Bé
314863	2l	Glass bottle	26° Bé
314866	25kg	Plastic tank	26° Bé

## Ammonia solution 25%

NH<sub>4</sub>OH  
Molecular Weight 35,046  
CAS : 1336-21-6

**Classification transport**  
ONU: 2672  
Transport Hazard class: 8  
Packing group III

**Danger**  
3.2/1B; H314-4.1.A/1; H400-3.8/3; H335  
P260-P261-P304+P340-P305+P351+P338-P405-P501a

### 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.....	<=10 APHA	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 KMnO <sub>4</sub> .....	<=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	5l	Plastic bottle	
420084	25kg	Plastic tank	

### 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.....	<=10 APHA	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 KMnO <sub>4</sub> .....	<=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	1l	Glass bottle	


### Ammonia solution 25% > RPE-For analysis

RPE

Description .....	Clear liquid	Phosphate.....	<=0.3 ppm	As.....	<=0.02 ppm	K.....	<=0.2 ppm
Colour.....	<=10 APHA	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 KMnO <sub>4</sub> .....	<=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	2l	Glass bottle	

**Ammonia solution 20-22%**


<p>NH<sub>4</sub>OH Molecular Weight 35,046 CAS : 1336-21-6</p>	<p><b>Classification transport</b> ONU: 2672 Transport Hazard class: 8 Packing group III</p>	<p> <b>Danger</b> 3.2/1B; H314-4.1.A/1; H400-3.8/3; H335 P260-P261-P304+P340-P305+P351+P338-P405-P501a</p>
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**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	Lj .....<= 10 ppt	U .....<= 10 ppt
Co .....<= 10 ppt	Assay (alkalimetric).....20 - 22 %	Lu .....<= 10 ppt	V .....<= 10 ppt
Cr .....<= 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	500ml	Plastic bottle	

**Ammonia solution 20%**

<p>NH<sub>4</sub>OH Molecular Weight 35,046 CAS : 1336-21-6</p>	<p><b>Classification transport</b> ONU: 2672 Transport Hazard class: 8 Packing group III</p>	<p> <b>Danger</b> 3.2/1B; H314-4.1.A/1; H400-3.8/3; H335 P260-P261-P304+P340-P305+P351+P338-P405-P501a</p>
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**Ammonia solution 20% > RS-Superpure-For trace analysis** RS

Description .....Clear liquid	Ca .....<= 1 ppb	Ge .....<= 0.1 ppb	Nd .....<= 0.1 ppb	Te .....<= 0.1 ppb
Colour .....<= 10 APHA	Cd .....<= 0.5 ppb	Hg .....<= 0.2 ppb	Ni .....<= 0.5 ppb	Th .....<= 0.1 ppb
Identification.....Positive	Ce .....<= 0.1 ppb	Ho .....<= 0.1 ppb	Pb .....<= 0.1 ppb	Ti .....<= 0.5 ppb
Chloride.....<= 0.5 ppm	Co .....<= 0.5 ppb	In .....<= 0.1 ppb	Pr .....<= 0.1 ppb	Tl .....<= 0.1 ppb
Phosphate.....<= 0.01 ppm	Cr .....<= 0.5 ppb	K .....<= 1 ppb	Rb .....<= 0.1 ppb	Tm .....<= 0.1 ppb
Sulphate .....<= 1 ppm	Cs .....<= 0.1 ppb	La .....<= 0.1 ppb	Rh .....<= 0.5 ppb	U .....<= 0.1 ppb
Ag .....<= 0.5 ppb	Cu .....<= 0.5 ppb	Li .....<= 0.1 ppb	Sb .....<= 0.5 ppb	V .....<= 0.5 ppb
Al .....<= 1 ppb	Dy .....<= 0.1 ppb	Lu .....<= 0.1 ppb	Sc .....<= 0.1 ppb	W .....<= 0.1 ppb
As .....<= 1 ppb	Er .....<= 0.1 ppb	Mg .....<= 1 ppb	Se .....<= 1 ppb	Y .....<= 0.1 ppb
Au .....<= 0.5 ppb	Eu .....<= 0.1 ppb	Mn .....<= 0.5 ppb	Sm .....<= 0.1 ppb	Yb .....<= 0.1 ppb
Ba .....<= 0.1 ppb	Fe .....<= 1 ppb	Mo .....<= 0.5 ppb	Sr .....<= 0.5 ppb	Zn .....<= 0.5 ppb
Be .....<= 0.1 ppb	Ga .....<= 0.1 ppb	Na .....<= 1 ppb	Sr .....<= 0.1 ppb	Zr .....<= 0.1 ppb
Bi .....<= 0.1 ppb	Gd .....<= 0.1 ppb	Nb .....<= 0.1 ppb	Tb .....<= 0.1 ppb	Assay (alkalimetric).....20 ± 22 %

Code	Size	Packaging	Notes
420175	500ml	Plastic bottle	

**Ammonia solution 20% > RPE-For analysis** RPE

Description .....Clear liquid	Phosphate .....<=0.3 ppm	As .....<=0.02 ppm	K .....<=0.2 ppm
Colour .....<=10 APHA	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	1l	Glass bottle	
419983	2l	Glass bottle	
419984	25kg	Plastic tank	

Product specifications are subject to changes. Please visit our website for updates.

## Ammonia solution 17%

NH<sub>4</sub>OH  
Molecular Weight 35,046  
CAS : 1336-21-6

**Classification transport**  
ONU: 2672  
Transport Hazard class: 8  
Packing group III

**Danger**  
3.2/1B; H314-4.1.A/1; H400-3.8/3; H335  
P260-P261-P304+P340-P305+P351+P338-P405-P501a

▶ **Ammonia solution 17% > RS-For analysis according to Ph. Eur. Chap. 4.1.1**

RS

Code	Size	Packaging	Notes
611004701	250ml	Glass bottle	Ref Ph.Eur 1004701

Storage: protected from atmospheric carbon dioxide, at a temperature below 20 °C.

## Ammonia solution 10%

NH<sub>4</sub>OH  
Molecular Weight 35,046  
CAS : 1336-21-6

**Classification transport**  
ONU: 2672  
Transport Hazard class: 8  
Packing group III

**Danger**  
3.2/1B; H314-4.1.A/1; H400-3.8/3; H335  
P260-P261-P304+P340-P305+P351+P338-P405-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	1l	Glass bottle	

## Ammonia solution diluted

▶ **Ammonia solution diluted > RS-For analysis according to Ph. Eur. Chap. 4.1.1**

RS

Code	Size	Packaging	Notes
611004702	1l	Glass bottle	Ammonia, dilute R1 Ref Ph.Eur 1004702
611004703	1l	Glass bottle	Ammonia, dilute R2 Ref Ph.Eur 1004703
611004704	1l	Bottle	Ammonium solution diluted R3 Ref Ph.Eur 1004704
611004706	1l	Bottle	Ammonium solution diluted R4 Ref Ph.Eur 1004706

## Ammonium standard solution

▶ **Ammonium standard solution > RS-For analysis according to Ph. Eur. Chap. 4.1.2**

RS

Code	Size	Packaging	Notes
615000301	100ml	Bottle	A 2,5 ppm solution : to dilute according to Ref Ph.Eur 5000301
615000302	100ml	Bottle	A 1 ppm solution : to dilute according to Ref Ph.Eur 5000302
615000309	100ml	Bottle	A 100 ppm solution : to dilute according to Ref Ph.Eur 5000300

▶ **Ammonium standard solution > RS-Standard for ionic chromatography**

RS

Code	Size	Packaging	Notes
503310	50ml	Plastic bottle	conc. 1.000 ppm Matrix : Eau
503311	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Eau
503312	250ml	Plastic bottle	conc. 1.000 ppm Matrix : Eau
503313	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Eau

## Ammonium acetate

CH<sub>3</sub>COONH<sub>4</sub>  
Molecular Weight 77,08  
CAS : 631-61-8  
EEC-N : 211-162-9

### Ammonium acetate > RPE-For analysis-ACS-Reag.Ph.Eur.-Reag.USP

RPE

Description.....White crystals Residue on ignition .....<=100 ppm Heavy metals (Pb).....<=5 ppm  
Identification.....Positive Chloride .....<=5 ppm Fe.....<=5 ppm  
pH sol. 5% at 25° C .....6.7 - 7.3 Nitrate .....<=10 ppm Assay (acc.to Sørensen) .....>=98 %  
Water-insoluble matter .....<=50 ppm Sulphate .....<=10 ppm

Code	Size	Packaging	Notes
418776	500g	Plastic bottle	
418777	1kg	Plastic bottle	
418772	5kg	Plastic bucket	
418771	25kg	Drum	

### Ammonium acetate > RE-Pure

RE

Description.....White semitransparent crystals Water .....<= 2 %  
Identification.....Positive Assay (non-aqueous medium) .....>= 97.5 % (s.s.)

Code	Size	Packaging	Notes
313507	1kg	Plastic bottle	
313502	25kg	Drum	
313504	50kg	Fibre drum	

## Ammonium bicarbonate

Synonym : Ammonium hydrogen carbonate

NH<sub>4</sub>HCO<sub>3</sub>  
Molecular Weight 79,06  
CAS : 1066-33-7  
EEC-N : 213-911-5



Warning

3.1.O/4; H302  
P264-P270-P330-P301+P312-P501a

### Ammonium bicarbonate > RPE-For analysis

RPE

Description.....White crystalline powder Water-insoluble matter .....<=30 ppm Cu .....<=10 ppm Ni .....<=10 ppm  
Identification.....Positive Sulphate.....<=50 ppm Fe.....<=10 ppm Pb .....<=10 ppm  
pH sol. 5% at 25° C .....7.0 - 8.0 Residue on ignition.....<=500 ppm K .....<=10 ppm Assay (acidimetric) .....>=98.5 %  
Chloride .....<=5 ppm As.....<=1 ppm Mg .....<=10 ppm  
Phosphate .....<=5 ppm Ca .....<=100 ppm Na .....<=20 ppm

Code	Size	Packaging	Notes
418927	1kg	Plastic bottle	
418929	5kg	Plastic bottle	

### Ammonium bicarbonate > RE-Pure

RE

Description.....White crystalline powder Sulphated ash.....<=500 ppm Sulphate .....<=150 ppm  
Identification.....Positive Chloride .....<=50 ppm Assay (acidimetric) .....>=99 %

Code	Size	Packaging	Notes
313601	5kg	Plastic bottle	
313602	50kg	Fibre drum	

## Ammonium bromide

NH<sub>4</sub>Br  
Molecular Weight 97,94  
CAS : 12124-97-9  
EEC-N : 235-183-8

### Ammonium bromide > RPE-For analysis-ACS

RPE

Description.....White crystalline powder Residue on ignition.....<=100 ppm Sulphate.....<=50 ppm Assay (argentimetric).....>=99.0 %  
Identification.....Positive Bromate .....<=20 ppm Heavy metals (Pb) .....<=5 ppm  
pH sol. 5% at 25° C .....4.5 - 6.0 Chloride .....<=0.2 % Ba .....<=20 ppm  
Water-insoluble matter .....<=50 ppm Iodide .....<=5 ppm

Code	Size	Packaging	Notes
419175	250g	Plastic bottle	
419177	1kg	Plastic bottle	

## Ammonium bromide > RE-Pure

RE

Description.....White crystalline powder Chloride .....<=0.2 % Assay (argentimetric).....>=99.0 %  
 Identification.....Positive Sulphate .....<=500 ppm  
 Sulphated ash.....<=500 ppm Fe.....<=5 ppm

Code	Size	Packaging	Notes
313802	25kg	Drum	

## Ammonium carbamate

NH<sub>2</sub>COONH<sub>4</sub>  
 Molecular Weight 78,07  
 CAS : 1111-78-0  
 EEC-N : 214-185-2



**Warning**  
 3.1.O/4; H302  
 P264-P270-P330-P301+P312-P501a

## Ammonium carbamate > RPE-For analysis

RPE

Description.....White irregular pieces Cu .....<= 5 ppm Pb .....<= 5 ppm Cr .....<= 5 ppm  
 Identification.....Positive Fe .....<= 5 ppm Zn .....<= 5 ppm Mn .....<= 5 ppm  
 Chloride .....<= 5 ppm K .....<= 50 ppm Assay (alkalimetric) .....>= 99.5 % Residue on calcination .....<= 20 ppm  
 Phosphate .....<= 5 ppm Mg .....<= 5 ppm Sulphate.....<= 10 ppm  
 Nitrate .....<= 10 ppm Na .....<= 50 ppm Cd .....<= 5 ppm  
 Ca .....<= 10 ppm Ni .....<= 5 ppm Co .....<= 5 ppm

Code	Size	Packaging	Notes
419202	1kg	Plastic bottle	

## Ammonium carbonate

(NH<sub>4</sub>)<sub>2</sub>CO<sub>3</sub>  
 Molecular Weight 96,08  
 CAS : 10361-29-2  
 EEC-N : 233-786-0



**Warning**  
 3.1.O/4; H302  
 P264-P270-P330-P301+P312-P501a

## Ammonium carbonate > RPE-For analysis-ACS-Reag.Ph.Eur.-Reag.USP

RPE

Description.....White crystals Non volat.substances .....<=100 ppm Heavy metals (Pb) .....<=5 ppm  
 Identification.....Positive Chloride .....<=5 ppm Fe .....<=5 ppm  
 Water-insoluble matter.....<=50 ppm Total sulphur .....<=20 ppm Assay (alkalimetric) .....>=30.0 %

Code	Size	Packaging	Notes
419237	1kg	Plastic bottle	
419239	5kg	Plastic bottle	
419232	25kg	Drum	

## Ammonium carbonate > ERBAPharm-According to pharmacopoeia: NF

ERBAPharm

Description.....White crystalline powder Chloride .....<=35 ppm Assay (acidimetric) .....30.0 - 34.0 % (NH<sub>3</sub>)  
 Identification.....Positive Sulphate .....<=50 ppm  
 Sulphated ash.....<=0.1 % Heavy metals (Pb) .....<=10 ppm

Code	Size	Packaging	Notes
313887	1kg	Plastic bottle	
313889	5kg	Plastic bottle	

## Ammonium carbonate solution 20%

**Classification transport**  
 ONU: 2206  
 Transport Hazard class: 6.1  
 Packing group III



**Danger**  
 3.2/1B; H314-3.1.O/4; H302  
 P260-P280-P304+P340-P305+P351+P338-P405-P501a

## 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	1l	Plastic bottle	

## Ammonium carbonate solution 158 g/l

### Classification transport

ONU: 1935  
Transport Hazard class: 6.1  
Packing group III

### Ammonium carbonate solution 158 g/l > RS-For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611005201	1l	Bottle	Ref Ph.Eur 1005201

## Ammonium cerium(IV) nitrate

$(\text{NH}_4)_2\text{Ce}(\text{NO}_3)_6$   
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

2.14/2; H272-3.3/1; H318  
P210-P221-P280-P220-P305+P351+P338-P501a

### Ammonium cerium(IV) nitrate > RPE-For analysis-ACS-Reag.Ph.Eur.-Reag.USP

RPE

Description .....Orange crystalline powder  
Identification.....Positive  
H<sub>2</sub>SO<sub>4</sub>-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	50g	Glass bottle	

## Ammonium cerium(IV) nitrate 0.1 mol/l

### Classification transport

ONU: 3093  
Transport Hazard class: 8  
Packing group II



### Danger

2.13/2; H272-3.2/1A; H314  
P210-P221-P304+P340-P305+P351+P338-P405-P501a

### Ammonium cerium(IV) nitrate 0.1 mol/l > RS-For analysis according to Ph. Eur. Chap. 4.2.2

RS

Code	Size	Packaging	Notes
613000100	1l	Glass bottle	Ref Ph.Eur 3000100

Storage: protected from light

## Ammonium cerium(IV) nitrate 0.01 mol/l

### Ammonium cerium(IV) nitrate 0.01 mol/l > RS-For analysis according to Ph. Eur. Chap. 4.2.2

RS

Code	Size	Packaging	Notes
613000200	1l	Glass bottle	Ref Ph.Eur 3000200

Storage: protected from light

## Ammonium cerium(IV) sulfate dihydrate

Ce(NH<sub>4</sub>)<sub>4</sub>(SO<sub>4</sub>)<sub>4</sub>·2H<sub>2</sub>O  
Molecular Weight 632,53  
CAS : 10378-47-9



**Warning**  
3.2/2; H315-3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

### Ammonium cerium(IV) sulfate dihydrate > RPE-For analysis-ACS

**RPE**

Description ..... Yellow-orange powder Insoluble in diluted sulphuric acid ..... <= 0.05 % Fe ..... <= 100 ppm  
Identification ..... Positive Phosphate ..... <= 0.03 % Assay (oxidimetric) ..... >= 94 %  
pH sol. 5% at 25° C ..... 4.5 - 5.5

Code	Size	Packaging	Notes
436091	100g	Glass bottle	

## Ammonium cerium(IV) sulfate dihydrate 0.1 mol/l

**Classification transport**

ONU: 2796  
Transport Hazard class: 8  
Packing group II



**Danger**  
3.2/1A; H314  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

### Ammonium cerium(IV) sulfate dihydrate 0.1 mol/l > RS-For analysis according to Ph. Eur. Chap. 4.2.2

**RS**

Code	Size	Packaging	Notes
613000301	250ml	Bottle	Ref Ph.Eur 3000300
613000300	1l	Bottle	Ref Ph.Eur 3000300

## Ammonium cerium(IV) sulfate dihydrate 0.01 mol/l

### Ammonium cerium(IV) sulfate dihydrate 0.01 mol/l > RS-For analysis according to Ph. Eur. Chap. 4.2.2

**RS**

Code	Size	Packaging	Notes
613000400	1l	Bottle	Ref Ph.Eur 3000400

## Ammonium chloride

NH<sub>4</sub>Cl  
Molecular Weight 53,49  
CAS : 12125-02-9  
EEC-N : 235-186-4



**Warning**  
3.1.0/4; H302-3.3/2; H319  
P280-P305+P351+P338-P330-P337+P313-P301+P312-P501a

### Ammonium chloride > RPE-For analysis-ACS-Reag.Ph.Eur.-Reag.USB

**RPE**

Description ..... White crystalline powder Water-insoluble matter ..... <=50 ppm Sulphate ..... <=20 ppm Fe ..... <=2 ppm  
Identification ..... Positive Residue on calcination ..... <=100 ppm Heavy metals (Pb) ..... <=5 ppm Mg ..... <=5 ppm  
pH sol. 5% at 25° C ..... 4.5 - 5.5 Phosphate ..... <=2 ppm Ca ..... <=10 ppm Assay (argentimetric) ..... >=99.5 %

Code	Size	Packaging	Notes
419416	500g	Plastic bottle	
419417	1kg	Plastic bottle	
419419	5kg	Plastic bottle	
419412	25kg	Bag	



▶ **Ammonium chloride >**

ERBAPharm-According to pharmacopoeia: Ph.Eur.-USP-FU-Ph.Franc.-BP-DAB

Description .....	White crystalline powder	pH (1:20) .....	4.6 - 6.0	Fe.....	<=20 ppm
Identification.....	Positive	Loss on drying .....	<=0.5 %	Assay (argentimetric).....	99.5 - 100.5 % s.s.
Appearance of solution.....	Conform Ph.Eur.	Sulphated ash.....	<=0.1 %	Origin (BSE/TSE) .....	Synthesis
Acidity or alkalinity .....	Conform Ph.Eur.	Heavy metals (Pb).....	<=10 ppm	Residual solvents (CPMP/ICH/283/95).....	Conform
Bromide and Iodide .....	Conform Ph.Eur.	Sulphate .....	<=150 ppm		
Thiocyanate .....	Conform USP-NF	Ca.....	<=200 ppm		

Code	Size	Packaging	Notes
313957	1kg	Plastic bottle	
313952	2,5kg	Plastic bottle	
313951	25kg	Drum	
313954	50kg	Fibre drum	

▶ **Ammonium chloride > RE-Pure**

RE

Description .....	White crystalline powder	Part. massed	Not soluble matter .....	<= 0.02 %	Assay (argentimetric).....	>= 99 %
Identification.....	Positive		Sulphated ash.....	<= 0,3 %		
Water (K.F.).....	<= 0.1 %		Fe.....	<= 10 ppm		

Code	Size	Packaging	Notes
314002	2,5kg	Plastic bottle	
314001	25kg	Drum	

▶ **Ammonium chloride buffer solution pH 10.7**

Danger

3.2/1B; H314  
P260-P280-P304+P340-P305+P351+P338-P405-P501a▶ **Ammonium chloride buffer solution pH 10.7 >**

RS

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

Code	Size	Packaging	Notes
614013400	1l	Bottle	Ref Ph.Eur 4013400

▶ **Ammonium chloride buffer solution pH 10.0**

Danger

3.2/1B; H314  
P260-P280-P304+P340-P305+P351+P338-P405-P501a▶ **Ammonium chloride buffer solution pH 10.0 >**

RS

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

Code	Size	Packaging	Notes
614007301	100ml	Bottle	Ref Ph.Eur 4007300
614007300	1l	Bottle	Ref Ph.Eur 4007300

▶ **Ammonium chloride buffer solution pH 9.5**▶ **Ammonium chloride buffer solution pH 9.5 >**

RS

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

Code	Size	Packaging	Notes
614007200	1l	Bottle	Ref Ph.Eur 4007200

## Ammonium chloride solution 10%



**Warning**  
3.3/2; H319  
P280-P264-P305+P351+P338-P337+P313

### Ammonium chloride solution 10% > RPE-For analysis

**RPE**

Description .....Clear colourless liquid    Density at 20° C.....1.025 - 1.031  
Identification.....Positive    Assay.....9.5 - 10.5 %

Code	Size	Packaging	Notes
E419531	1l	Plastic bottle	

## Ammonium chloride solution 107 g/l

### Ammonium chloride solution 107 g/l > RS-For analysis according to Ph. Eur. Chap. 4.1.1

**RS**

Code	Size	Packaging	Notes
611005301	1l	Bottle	Ref Ph.Eur 1005301

## tri-Ammonium citrate

HOC(CO2NH4)(CH2CO2NH4)2  
Molecular Weight 243,22  
CAS : 3458-72-8  
EEC-N : 222-394-5

### 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	25kg	Plastic bucket	

## Ammonium citrate dibasic

Synonym : Di-ammonium hydrogen citrate

HOCCOOH(CH2COONH4)2  
Molecular Weight 226,19  
CAS : 3012-65-5  
EEC-N : 221-146-3



**Warning**  
3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

### Ammonium citrate dibasic > RPE-For analysis-ACS

**RPE**

Description.....White crystals    Chloride .....<= 10 ppm    Heavy metals (Pb).....<= 5 ppm  
Identification.....Positive    Phosphate .....<= 5 ppm    Fe.....<= 10 ppm  
Water-insoluble matter.....<= 50 ppm    Oxalate .....<= 500 ppm    Assay (acc.to Sørensen).....98.0 - 103.0 %  
Residue on ignition.....<= 100 ppm    Total sulphur .....<= 50 ppm

Code	Size	Packaging	Notes
419315	250g	Plastic bottle	
419317	1kg	Plastic bottle	
419312	25kg	Drum	
419316	50kg	Fibre drum	

## Ammonium citrate solution 20%



**Warning**

3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

### Ammonium citrate solution 20% > RPE-For analysis

RPE

Description .....Clear colourless liquid pH of the substance.....7 - 7.3  
Identification.....Positive Assay.....19 - 21 %

Code	Size	Packaging	Notes
E419361	1l	Glass bottle	

Analysis for phosphate.

## Ammonium dichromate

Synonym : Ammonium bichromate

(NH<sub>4</sub>)<sub>2</sub>Cr<sub>2</sub>O<sub>7</sub>  
Molecular Weight 252,06  
CAS : 7789-09-5  
EEC-N : 232-143-1

**Classification transport**

ONU: 1439  
Transport Hazard class: 5.1  
Packing group II



**Danger**

2.14/2; H272-3.1.O/3; H301-3.1.I/2; H330-3.4.R/1; H334-3.5/1B; H340-3.6/1B; H350-3.7/1B; H360FD-3.9/1; H372-3.2/1B; H314-4.1.A/1; H400-4.1.C/1; H410-3.1.D/4; H312-3.4.S/1; H317-A26  
P210-P221-P304+P340-P305+P351+P338-P342+P311-P405-P501a

### Ammonium dichromate > RPE-For analysis

RPE

Description .....Orange crystalline powder Chloride .....<= 10 ppm K + Na .....<= 0.1 %  
Identification.....Positive Sulphate .....<= 100 ppm Assay (iodometric).....>= 99 %  
Water-insoluble matter .....<= 50 ppm Ca .....<= 20 ppm

Code	Size	Packaging	Notes
418975	250g	Plastic bottle	
418977	1kg	Plastic bottle	

## Ammonium fluoride

NH<sub>4</sub>F  
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**

3.1.O/3; H301-3.1.D/3; H311-3.1.I/3; H331  
P261-P271-P280-P304+P340-P405-P501a

### Ammonium fluoride > RPE-For analysis-ACS

RPE

Description.....White crystals Residue on ignition .....<=100 ppm Heavy metals (Pb).....<=5 ppm  
Identification.....Positive Chloride .....<=10 ppm Fe.....<=5 ppm  
Water-insoluble matter .....<=50 ppm Sulphate .....<=50 ppm Assay (acc.to Sørensen) .....>=98.0 %

Code	Size	Packaging	Notes
419638	250g	Plastic bottle	
419637	1kg	Plastic bottle	

## Ammonium fluoride solution 40%

**Classification transport**

ONU: 3287  
Transport Hazard class: 6.1  
Packing group III



**Danger**

3.1.D/3; H311-3.1.I/3; H331-3.1.O/4; H302  
P261-P271-P280-P304+P340-P405-P501a

### Ammonium fluoride solution 40% > RS-RSE For electronic use

RS

Description .....Clear liquid Ag .....<=0.05 ppm Cu .....<=0.1 ppm Pt .....<=0.05 ppm  
Colour .....<=10 APHA Al .....<=0.5 ppm Fe .....<=0.5 ppm Sb .....<=0.03 ppm  
Identification.....Positive As .....<=0.03 ppm Ga .....<=0.1 ppm Sn .....<=0.1 ppm  
Density at 20° C .....1.10 - 1.12 Au .....<=0.05 ppm In .....<=0.05 ppm Sr .....<=0.1 ppm  
pH of the substance .....7.4 - 8.2 B .....<=0.1 ppm K .....<=0.1 ppm Ta .....<=0.1 ppm  
Assay (acc.to Sørensen) .....39 - 41 % Ba .....<=0.1 ppm Li .....<=0.1 ppm Ti .....<=0.05 ppm  
Residue on calcination .....<=10 ppm Be .....<=0.05 ppm Mg .....<=0.3 ppm Tl .....<=0.05 ppm  
Chloride .....<=4 ppm Bi .....<=0.05 ppm Mn .....<=0.05 ppm V .....<=0.1 ppm  
Phosphate .....<=0.4 ppm Ca .....<=0.5 ppm Mo .....<=0.05 ppm Zn .....<=0.1 ppm  
Heavy metals (Pb) .....<=1 ppm Cd .....<=0.1 ppm Na .....<=0.3 ppm Zr .....<=0.05 ppm  
Nitrate .....<=10 ppm Co .....<=0.05 ppm Ni .....<=0.05 ppm  
Total sulphur .....<=2 ppm Cr .....<=0.05 ppm Pb .....<=0.3 ppm

Code	Size	Packaging	Notes
419653	1l	Plastic bottle	

## Ammonium fluoride solution 40% > RS-MOS- For electronic use

RS

Description .....	Clear liquid	Ag .....	<=0.05 ppm	Cu .....	<=0.1 ppm	Pt .....	<=0.05 ppm
Colour .....	<=10 APHA	Al .....	<=0.5 ppm	Fe .....	<=0.5 ppm	Sb .....	<=0.03 ppm
Identification .....	Positive	As .....	<=0.03 ppm	Ga .....	<=0.1 ppm	Sn .....	<=0.1 ppm
Density at 20° C .....	1.10 - 1.12	Au .....	<=0.05 ppm	In .....	<=0.05 ppm	Sr .....	<=0.1 ppm
pH of the substance .....	7.4 - 8.2	B .....	<=0.1 ppm	K .....	<=0.1 ppm	Ta .....	<=0.1 ppm
Assay (acc.to Sørensen) .....	39 - 41 %	Ba .....	<=0.1 ppm	Li .....	<=0.1 ppm	Ti .....	<=0.05 ppm
Residue on calcination .....	<=10 ppm	Be .....	<=0.05 ppm	Mg .....	<=0.3 ppm	Tl .....	<=0.05 ppm
Chloride .....	<=4 ppm	Bi .....	<=0.05 ppm	Mn .....	<=0.05 ppm	V .....	<=0.1 ppm
Phosphate .....	<=0.4 ppm	Ca .....	<=0.5 ppm	Mo .....	<=0.05 ppm	Zn .....	<=0.1 ppm
Heavy metals (Pb) .....	<=1 ppm	Cd .....	<=0.1 ppm	Na .....	<=0.3 ppm	Zr .....	<=0.05 ppm
Nitrate .....	<=10 ppm	Co .....	<=0.05 ppm	Ni .....	<=0.05 ppm		
Total sulphur .....	<=2 ppm	Cr .....	<=0.05 ppm	Pb .....	<=0.3 ppm		

Code	Size	Packaging	Notes
419663	1l	Plastic bottle	

## Ammonium formate

HCOONH<sub>4</sub>  
Molecular Weight 63,06  
CAS : 540-69-2  
EEC-N : 208-753-9



**Warning**  
3.2/2; H315-3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

## Ammonium formate > RPE-For analysis-Reag. Ph. Eur.

RPE

Description .....	Colourless crystals	Chloride .....	<= 5 ppm	Fe .....	<= 5 ppm
Identification .....	Positive	Sulphate .....	<= 10 ppm	Assay (acc.to Sørensen) .....	>= 98.0 %
pH sol. 5% at 25° C .....	5.5 - 7.0	Water-insoluble matter .....	<= 50 ppm	Melting point .....	119 - 121 °C
Water .....	<= 0.5 %	Heavy metals (Pb) .....	<= 5 ppm		

Code	Size	Packaging	Notes
419735	250g	Plastic bottle	
419737	1kg	Plastic bottle	
419733	25kg	Plastic bucket	

## Ammonium hydrogen carbonate ▶ Ammonium bicarbonate

## Di-ammonium hydrogen citrate ▶ Ammonium citrate dibasic

## Ammonium hydrogen difluoride

NH<sub>4</sub>F.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**  
3.1.0/3; H301-3.2/1B; H314  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

## Ammonium hydrogen difluoride > RE-Pure

RE

Description .....	White flakes	Sulphate .....	<= 2000 ppm	Fe .....	<= 500 ppm
Identification .....	Positive	Sulphite .....	<= 100 ppm	Assay (acidimetric) .....	>= 94 %
Water (K.F.) .....	<= 0.5 %	Heavy metals (Pb) .....	<= 200 ppm		

Code	Size	Packaging	Notes
314261	1kg	Plastic bottle	
314263	25kg	Fibre drum	

## di-Ammonium hydrogenphosphate ▶ Ammonium phosphate dibasic

## di-Ammonium hydrogen phosphate 25 mg/L solution

**Classification transport**

ONU: 1760  
 Transport Hazard class: 8  
 Packing group III


**Warning**

3.1.1/4; H332-3.2/2; H315-3.3/2; H319  
 P261-P271-P280-P304+P340-P305+P351+P338-P312

### di-Ammonium hydrogen phosphate 25 mg/L solution > RS-Matrix modifiers for AAS-GTA

RS

Code	Size	Packaging	Notes
503194	50ml	Plastic bottle	Matrix : 1% Nitric acid

Ammonium hydrogen sulphate ▶ Ammonium bisulfate

## Ammonium hydroxide 6N

### Ammonium hydroxide 6N > RS-For analysis according to USP

RS

Code	Size	Packaging	Notes
617000151	1l	Plastic bottle	

## Ammonium iodide

NH<sub>4</sub>I  
 Molecular Weight 144,94  
 CAS : 12027-06-4  
 EEC-N : 234-717-7


**Warning**

3.2/2; H315-3.3/2; H319-3.8/3; H335  
 P261-P271-P304+P340-P305+P351+P338-P405-P501a

### Ammonium iodide > RPE-For analysis-ACS

RPE

Description .....	White granules	Water-insoluble matter .....	<= 50 ppm	Fe.....	<= 5 ppm
Identification.....	Positive	Phosphate .....	<= 10 ppm	Assay (oxidimetric).....	>= 99.0 %
Residue on ignition .....	<= 0.05 %	Heavy metals (Pb).....	<= 10 ppm	Sulphate .....	<= 0.05 %
Chloride + bromide (Cl).....	<= 50 ppm	Ba.....	<= 20 ppm		

Code	Size	Packaging	Notes
420133	50g	Glass bottle	
420135	250g	Glass bottle	

Stabilized with ~1,5% of NH<sub>4</sub>H<sub>2</sub>PO<sub>2</sub>.

## Ammonium iron (II) sulfate 0.12N

### Ammonium iron (II) sulfate 0.12N > RS-For COD determination

RS

Code	Size	Packaging	Notes
526761	1l	Glass bottle	

## Ammonium iron (II) sulfate 0.1N

**Classification transport**

ONU: 2796  
 Transport Hazard class: 8  
 Packing group II


**Warning**

3.2/2; H315-3.3/2; H319  
 P280-P264-P305+P351+P338-P332+P313-P337+P313-P362

### Ammonium iron (II) sulfate 0.1N > RPE-For analysis

RPE

Assay (potentiometry).....0.099 - 0.101 N


Code	Size	Packaging	Notes
P3250016	1l	Glass bottle	

## Ammonium metavanadate

Synonym : Ammonium vanadate(V)

NH<sub>4</sub>VO<sub>3</sub>  
Molecular Weight 116,98  
CAS : 7803-55-6  
EEC-N : 232-261-3

**Classification transport**  
ONU: 2859  
Transport Hazard class: 6.1  
Packing group II

 **Danger**  
3.1.O/3; H301-3.2/2; H315-3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

### Ammonium metavanadate > RPE-For analysis

RPE


Description.....Yellowish powder  
Identification.....Positive  
Chloride.....<= 20 ppm  
Fe.....<= 10 ppm  
Cd.....<= 10 ppm  
Co.....<= 20 ppm  
Cu.....<= 10 ppm  
Ni.....<= 20 ppm  
Pb.....<= 20 ppm  
Zn.....<= 10 ppm  
Phosphate.....<= 50 ppm  
Sulphate.....<= 100 ppm

Code	Size	Packaging	Notes
420184	100g	Plastic bottle	

## Ammonium molybdate tetrahydrate

Synonym : Ammonium heptamolybdate tetrahydrate

(NH<sub>4</sub>)<sub>6</sub>Mo<sub>7</sub>O<sub>24</sub>·4H<sub>2</sub>O  
Molecular Weight 1235,86  
CAS : 12054-85-2  
EEC-N : 234-320-9

 **Warning**  
3.1.O/4; H302-3.1.I/4; H332  
P261-P271-P304+P340-P312-P330-P501a

### Ammonium molybdate tetrahydrate > RS-For microanalysis

RS

Description.....White crystalline powder  
Identification.....Positive  
Water-insoluble matter.....<= 0.005 %  
Nitrate.....<= 0.003 %  
AsO<sub>4</sub>, PO<sub>4</sub>, SiO<sub>4</sub> (SiO<sub>2</sub>).....<= 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	100g	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 (SiO<sub>2</sub>).....<= 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 % (MoO<sub>3</sub>)  
Mg.....<= 50 ppm

Code	Size	Packaging	Notes
420234	100g	Glass bottle	
420236	500g	Plastic bottle	
420238	2,5kg	Plastic bottle	

## Ammonium molybdate solution 5%

### 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	1l	Plastic bottle	

## Ammonium molybdate solution 2.5% in nitric acid

**Classification transport**  
ONU: 3265  
Transport Hazard class: 8  
Packing group II

 **Danger**  
3.1.I/2; H330-3.2/1A; H314  
P260-P271-P304+P340-P305+P351+P338-P405-P501a

### Ammonium molybdate solution 2.5% in nitric acid > RPE-For analysis

RPE

Description.....Clear liquid  
Identification.....Positive  
Density at 20° C.....1.0 - 1.2

Code	Size	Packaging	Notes
E420371	1l	Glass bottle	

## Ammonium molybdate solution

### Ammonium molybdate solution > RS-For analysis according to Ph. Eur. Chap. 4.1.1


RS

Code	Size	Packaging	Notes
611005702	1l	Bottle	Ref Ph.Eur 1005702
611005703	1l	Glass bottle	Ammonium molybdate solution R2 Ref Ph.Eur 1005703

## Ammonium nitrate

NH<sub>4</sub>NO<sub>3</sub>  
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**  
2.14/1; H271  
P210-P221-P283-P280-P306+P360-P501a

### Ammonium nitrate > RPE-For analysis-ISO-ACS-Reag.Ph.Eur.-Reag.USP

RPE

Description.....White crystals Residue on ignition.....<= 100 ppm Sulphate.....<= 20 ppm Acidity.....Conform  
Identification.....Positive Chloride.....<= 5 ppm Heavy metals (Pb).....<= 5 ppm  
pH sol. 5% at 25° C.....4.5 - 6.0 Phosphate.....<= 5 ppm Fe.....<= 2 ppm  
Water-insoluble matter.....<= 50 ppm Nitrite.....<= 5 ppm Assay (alkalimetric).....>= 95 %

Code	Size	Packaging	Notes
420427	1kg	Plastic bottle	
420429	5kg	Plastic bottle	
420422	25kg	Drum	
420424	50kg	Fibre drum	

### Ammonium nitrate > RE-Pure


RE

Description.....White pearls pH sol. 5% at 25° C.....4.6 - 7 Total nitrogen.....>= 34.2 %  
Identification.....Positive Residue on ignition.....<= 0.5 %

Code	Size	Packaging	Notes
315509	5kg	Plastic bottle	
315502	25kg	Drum	

## Ammonium nitrate 200 mg/L solution

**Classification transport**  
ONU: 1942  
Transport Hazard class: 5.1  
Packing group III

 **Danger**  
2.13/1; H271  
P210-P221-P283-P280-P306+P360-P501a


### Ammonium nitrate 200 mg/L solution > RS-Matrix modifiers for AAS-GTA

RS

Code	Size	Packaging	Notes
503195	50ml	Plastic bottle	Matrix : Water

## Ammonium oxalate

(NH<sub>4</sub>)<sub>2</sub>C<sub>2</sub>O<sub>4</sub>.H<sub>2</sub>O  
Molecular Weight 142,11  
CAS : 6009-70-7  
EEC-N : 238-135-4

 **Warning**  
3.1.O/4; H302-3.1.D/4; H312  
P280-P312-P330-P363-P301+P312-P501a

### Ammonium oxalate > RPE-For analysis-ACS-Reag.Ph.Eur.-Reag.USP

RPE

Description.....White crystals Residue on ignition.....<=200 ppm Heavy metals (Pb).....<=5 ppm  
Identification.....Positive Chloride.....<=20 ppm Fe.....<=2 ppm  
Water-insoluble matter.....<=50 ppm Sulphate.....<=20 ppm Assay (oxidimetric).....99.0 - 101.0 %

Code	Size	Packaging	Notes
420475	250g	Plastic bottle	
420477	1kg	Plastic bottle	
420478	2,5kg	Plastic bottle	

## Ammonium oxalate solution 4%

### Ammonium oxalate solution 4% > RPE-For analysis

RPE

Description .....Clear colourless liquid Density at 20° C .....1.00 - 1.02  
 Identification .....Positive Assay (oxidimetric) .....3.8 - 4.2 %

Code	Size	Packaging	Notes
E420521	1l	Plastic bottle	

## Ammonium persulfate

Synonym : Ammonium peroxodisulfate

(NH<sub>4</sub>)<sub>2</sub>S<sub>2</sub>O<sub>8</sub>  
 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**

3.4.R/1; H334-2.14/3; H272-3.1.0/4; H302-3.8/3; H335-3.2/2; H315-3.3/2; H319-3.4.S/1; H317  
 P210-P221-P304+P340-P305+P351+P338-P342+P311-P405-P501a

### Ammonium persulfate > RPE-For analysis-ACS-Reag.Ph.Eur.-Reag.USP

RPE

Description .....Yellowish crystals Residue on ignition .....<=500 ppm Mn .....<=0.5 ppm  
 Identification .....Positive Chloride & Chlorate(Cl) .....<=10 ppm Assay (oxidimetric) .....>=98.0 %  
 Acidity (H<sub>2</sub>SO<sub>4</sub>) .....<=0.04 meq/g Heavy metals (Pb) .....<=50 ppm Fe .....<=10 ppm  
 Water-insoluble matter .....<=50 ppm Fe .....<=10 ppm

Code	Size	Packaging	Notes
420627	1kg	Plastic bottle	
420629	5kg	Plastic bottle	
420623	25kg	Fibre drum	

### Ammonium persulfate > RE-Pure

RE

Description .....White crystals or yellowish Heavy metals (Pb) .....<= 50 ppm Assay (oxidimetric) .....>= 97.5 %  
 Identification .....Positive Fe .....<= 10 ppm

Code	Size	Packaging	Notes
316008	500g	Plastic bottle	
316002	25kg	Drum	

## Ammonium phosphate dibasic

Synonym : di-Ammonium hydrogenphosphate

(NH<sub>4</sub>)<sub>2</sub>HPO<sub>4</sub>  
 Molecular Weight 132,06  
 CAS : 7783-28-0  
 EEC-N : 231-987-8



**Warning**

3.1.D/4; H312-3.1.1/4; H332  
 P261-P271-P280-P304+P340-P312-P501a

### Ammonium phosphate dibasic > RPE-For analysis-ACS-Reag. USP

RPE

Description .....White crystals Sulphate .....<= 100 ppm Fe .....<= 10 ppm Ca .....<= 10 ppm  
 Identification .....Positive Chloride .....<= 10 ppm K .....<= 50 ppm Mg .....<= 5 ppm  
 pH sol. 5% at 25° C .....7.7 - 8.1 Nitrate .....<= 30 ppm Na .....<= 50 ppm  
 Water-insoluble matter .....<= 50 ppm Heavy metals (Pb) .....<= 10 ppm Assay (alkalimetric) .....>= 98.0 %

Code	Size	Packaging	Notes
419836	500g	Plastic bottle	
419837	1kg	Plastic bottle	
419831	5kg	Plastic bottle	
419832	25kg	Drum	
419834	50kg	Fibre drum	

### Ammonium phosphate dibasic > RE-Pure

RE

Description .....White crystals Water-insoluble matter .....<= 0.05 % Assay as nitrogen .....>= 20.8 %  
 Identification .....Positive Loss on ignition .....<= 0.1 % Assay (alkalimetric) .....>= 99.5 %  
 pH sol. 1M .....8.00 - 8.50 Assay as phosphorus pentoxide .....>= 53.5 %

Code	Size	Packaging	Notes
314757	1kg	Plastic bottle	
314758	2,5kg	Plastic bottle	
314752	25kg	Drum	



## Ammonium phosphate monobasic

Synonym : Ammonium dihydrogenphosphate

NH<sub>4</sub>H<sub>2</sub>PO<sub>4</sub>  
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 Water-insoluble matter .....<= 50 ppm Ca .....<= 10 ppm Na .....<= 50 ppm  
Identification.....Positive Heavy metals (Pb) .....<= 5 ppm Mg .....<= 5 ppm Assay (acidimetric) .....>= 98.0 %  
pH sol. 5% at 25° C .....3.8 - 4.4 Nitrate .....<= 0.001 % Fe .....<= 10 ppm  
Chloride .....<= 5 ppm Sulphate .....<= 100 ppm K .....<= 50 ppm

Code	Size	Packaging	Notes
419786	500g	Plastic bottle	
419787	1kg	Plastic bottle	

### Ammonium phosphate monobasic > RE-Pure

RE

Description.....White crystals Water-insoluble matter .....<=100 ppm Fe.....<=50 ppm  
Identification.....Positive Heavy metals (Pb) .....<=50 ppm Assay (acidimetric) .....>=98 %  
pH sol. 5% at 25° C .....3.7 - 4.3 Sulphate .....<=100 ppm  
Chloride .....<=100 ppm As .....<=2 ppm

Code	Size	Packaging	Notes
314507	1kg	Plastic bottle	
314506	10kg	Plastic bottle	
314504	25kg	Bag	

## Ammonium phosphomolybdate

Synonym : Ammonium molybdophosphate

(NH<sub>4</sub>)<sub>3</sub>PO<sub>4</sub>.12MoO<sub>3</sub>.3H<sub>2</sub>O  
Molecular Weight 1930,55  
CAS : 54723-94-3



Warning

3.1.O/4; H302  
P264-P270-P330-P301+P312-P501a

### Ammonium phosphomolybdate > RPE-For analysis

RPE

Description .....Yellow powder Identification.....Positive Loss on drying .....<= 4 %

Code	Size	Packaging	Notes
419884	100g	Plastic bottle	

## Ammonium sulfamate

NH<sub>4</sub>SO<sub>3</sub>NH<sub>2</sub>  
Molecular Weight 114,12  
CAS : 7773-06-0  
EEC-N : 231-871-7

### Ammonium sulfamate > RPE-For analysis-ACS-Reag.Ph.Eur.-Reag.USP

RPE

Description.....White crystals Residue on ignition .....<=0.1 % Assay (oxidimetric) .....>=98.0 %  
Identification.....Positive Water-insoluble matter .....<=200 ppm  
Melting point .....131.0 - 135.0 °C Heavy metals (Pb) .....<=5 ppm

Code	Size	Packaging	Notes
420724	100g	Glass bottle	

## Ammonium sulfate

(NH<sub>4</sub>)<sub>2</sub>SO<sub>4</sub>  
 Molecular Weight 132,14  
 CAS : 7783-20-2  
 EEC-N : 231-984-1



**Warning**  
 3.2/2; H315-3.3/2; H319-3.8/3; H335  
 P261-P271-P304+P340-P305+P351+P338-P405-P501a

### Ammonium sulfate > RPE-For analysis-ISO-ACS-Reag.Ph.Eur.-Reag.USP

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 Sørensen) .....>=99.0 %

Code	Size	Packaging	Notes
420777	1kg	Plastic bottle	
420772	5kg	Plastic bottle	
420771	25kg	Plastic bucket	
420774	50kg	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 % (SO<sub>4</sub>)  
 Assay .....>= 99.0 %

Code	Size	Packaging	Notes
316257	1kg	Plastic bottle	
316251	5kg	Plastic bottle	
316252	25kg	Plastic bucket	

### Ammonium sulfate > RE-Pure-For fermentation

RE

Description.....White crystals  
 Identification.....Positive  
 Chloride .....<=50 ppm  
 Phosphate .....<=300 ppm  
 Cu.....<=10 ppm  
 Pb.....<=10 ppm  
 Assay .....20.54 - 21.18 % (N)

Code	Size	Packaging	Notes
316152	25kg	Drum	

## Ammonium sulfide solution 20%

(NH<sub>4</sub>)<sub>2</sub>S  
 Molecular Weight 68,141  
 CAS : 12135-76-1  
 EEC-N : 235-223-4

**Classification transport**  
 ONU: 2683  
 Transport Hazard class: 8  
 Packing group II



**Danger**

2.6/2; H225-3.1.O/3; H301-3.2/1B; H314-EUH031  
 P210-P241-P304+P340-P305+P351+P338-P403+P235-P405-P501a

### Ammonium sulfide solution 20% > RPE-For analysis

RPE

Description.....Yellow clear liquid  
 Identification.....Positive  
 Density at 15° C.....0.960 - 1.000  
 Carbonate.....<=50 ppm  
 Chloride .....<=50 ppm  
 Heavy metals (Pb).....<=10 ppm  
 Residue on ignition.....<=50 ppm  
 Sulphate.....<=100 ppm  
 As.....<=1 ppm  
 Ca.....<=30 ppm  
 Cd.....<=5 ppm  
 Cu.....<=5 ppm  
 Fe.....<=5 ppm  
 K.....<=10 ppm  
 Mg.....<=5 ppm  
 Na.....<=50 ppm  
 Ni.....<=5 ppm  
 Pb.....<=5 ppm  
 Sb.....<=5 ppm  
 Sn.....<=5 ppm  
 Zn.....<=5 ppm  
 Assay (ex ammonium) .....>=20 %  
 Assay (argentimetric).....>=20 %

Code	Size	Packaging	Notes
421101	1l	Glass bottle	
421102	25kg	Plastic tank	

## Ammonium D(-)tartrate

(CHOHCOONH<sub>4</sub>)<sub>2</sub>  
Molecular Weight 184,15  
CAS : 3164-29-2  
EEC-N : 221-618-9

### Ammonium D(-)tartrate > RPE-For analysis

RPE

Description .....	White crystals or cristalline powder	Heavy metals (Pb) .....	<=5 ppm	Fe.....	<=2 ppm
Identification.....	Positive	Residue on ignition .....	<=100 ppm	Mg .....	<=10 ppm
pH sol. 2% at 25° C .....	6.0 - 7.0	Total sulphur .....	<=50 ppm	Ni .....	<=1 ppm
Specific optical rotation .....	-9.0 - -10.0 °	Al.....	<=5 ppm	Pb .....	<=1 ppm
Chloride .....	<=10 ppm	As .....	<=0.5 ppm	Zn .....	<=1 ppm
Total phosphorus .....	<=5 ppm	Ca.....	<=200 ppm	Assay (acc.to Sörensen) .....	99 - 100 %
Water-insoluble matter .....	<=50 ppm	Cu.....	<=1 ppm		

Code	Size	Packaging	Notes
421171	50g	Glass bottle	

## Ammonium L(+)tartrate

(CHOHCOONH<sub>4</sub>)<sub>2</sub>  
Molecular Weight 184,15  
CAS : 3164-29-2  
EEC-N : 221-618-9

### Ammonium L(+)tartrate > RPE-For analysis

RPE

Description .....	White crystalline powder	Water-insoluble matter .....	<=50 ppm	As .....	<=0.5 ppm	Ni .....	<=1 ppm
Identification.....	Positive	Heavy metals (Pb) .....	<=5 ppm	Ca.....	<=200 ppm	Pb .....	<=1 ppm
pH sol. 2% at 25° C .....	6.0 - 7.0	Residue on ignition.....	<=100 ppm	Cu.....	<=1 ppm	Zn.....	<=1 ppm
Chloride .....	<=5 ppm	Total sulphur.....	<=50 ppm	Fe.....	<=2 ppm	Assay (acc.to Sörensen) .....	>=99 %
Total phosphorus .....	<=5 ppm	Al.....	<=20 ppm	Mg .....	<=20 ppm		

Code	Size	Packaging	Notes
421206	500g	Plastic bottle	

## Ammonium tetraborate trihydrate

NH<sub>4</sub>HB<sub>4</sub>O<sub>7</sub>·3H<sub>2</sub>O  
Molecular Weight 228,33  
CAS : 12007-58-8  
EEC-N : 234-513-8



Warning

3.2/2; H315-3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

### Ammonium tetraborate trihydrate > RPE-For analysis

RPE

Description .....	White crystalline powder	Phosphate .....	<=10 ppm	As.....	<=1 ppm	Na .....	<=50 ppm
Identification.....	Positive	Water-insoluble matter .....	<=30 ppm	Ca.....	<=50 ppm	Assay (ex ammonium).....	97 - 105 %
pH sol. 5% at 25° C .....	7.5 - 8.5	Heavy metals (Pb) .....	<=10 ppm	Fe.....	<=2 ppm	Assay(ex Boric acid).....	97 - 105 %
Carbonate .....	<=20 ppm	Nitrate .....	<=5 ppm	K.....	<=50 ppm		
Chloride .....	<=3 ppm	Sulphate.....	<=30 ppm	Mg .....	<=20 ppm		

Code	Size	Packaging	Notes
419127	1kg	Plastic bottle	

## Ammonium thiocyanate

Synonyms : ammonium sulfocyanate  
Ammonium rhodanide

NH<sub>4</sub>SCN  
Molecular Weight 76,12  
CAS : 1762-95-4  
EEC-N : 217-175-6



**Warning**  
3.1.O/4; H302-3.1.D/4; H312-3.1.I/4; H332-EUH032  
P261-P271-P280-P304+P340-P312-P501a

### 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	250g	Plastic bottle	
420887	1kg	Plastic bottle	
420888	10kg	Bag	

### 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	1kg	Plastic bottle	
316303	25kg	Plastic bucket	

## Ammonium thiocyanate 1 mol/l (1N)

### Ammonium thiocyanate 1 mol/l (1N) > RPE-For analysis

RPE

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

Code	Size	Packaging	Notes
420946	500ml	Plastic bottle	

76,12 g of NH<sub>4</sub>SCN. Volumetric solution ready-to-use : 1N. Stabilized with p-oxybenzoate.

## Ammonium thiocyanate 0.1 mol/l (0.1N)

### Ammonium thiocyanate 0.1 mol/l (0.1N) > RS-For analysis according to Ph. Eur. Chap. 4.2.2

RS

Code	Size	Packaging	Notes
613000500	1l	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	1l	Plastic bottle	

7,612 g of NH<sub>4</sub>SCN. Volumetric solution ready-to-use : 0,1N. 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	Normex	Plastic ampoule	

7,612 g of NH<sub>4</sub>SCN . Volumetric concentrated solution to prepare 1 L of solution 0.1 N

## Ammonium thiocyanate 0.01 mol/l (0.01N)

## Ammonium thiocyanate 0.01 mol/l (0.01N) &gt; RPE-NORMEX -For analysis

RPE

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

Code	Size	Packaging	Notes
421061	Normex	Plastic ampoule	



0,7612 g of NH<sub>4</sub>SCN . Volumetric concentrated solution to prepare 1 L of solution 0.01 N

## n-Amyl alcohol

Synonym : Pentanol-1

CH<sub>3</sub>(CH<sub>2</sub>)<sub>3</sub>CH<sub>2</sub>OH  
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**  
2.6/3; H226-3.1/4; H332-3.2/2; H315-3.8/3; H335  
P210-P241-P304+P340-P403+P235-P405-P501a

## n-Amyl alcohol &gt; RPE-For analysis

RPE

Description .....Clear colourless liquid Boiling point .....137,6 - 138,6 °C Cu .....<=0,05 ppm Na .....<=1 ppm  
Identification.....Positive Water (K.F.).....<=0,2 % Fe .....<=0,5 ppm Pb .....<=0,1 ppm  
Density at 20° C .....0,816 - 0,818 Residue on evaporation .....<=10 ppm K .....<=0,5 ppm Zn .....<=0,5 ppm  
Refractive index at 20°C .....1,4081 - 1,4121 Ca .....<=0,5 ppm Mg .....<=0,5 ppm Assay (GLC) .....>=99 %

Code	Size	Packaging	Notes
413783	1l	Glass bottle	

## n-Amyl alcohol &gt; RE-Pure

RE



Description .....Clear colourless liquid Density at 20° C.....0,815 - 0,819 Water (K.F.).....<=0,2 %  
Identification.....Positive Refractive index at 20°C .....1,4061 - 1,4141 Assay (GLC).....>=98,5 %

Code	Size	Packaging	Notes
307901	1l	Glass bottle	

## tert-Amyl alcohol

(CH<sub>3</sub>)<sub>2</sub>C(OH)CH<sub>2</sub>CH<sub>3</sub>  
Molecular Weight 88,15  
CAS : 75-85-4  
EEC-N : 200-908-9

**Classification transport**  
ONU: 1105  
Transport Hazard class: 3  
Packing group II

  **Danger**  
2.6/2; H225-3.1/4; H332-3.2/2; H315-3.8/3; H335  
P210-P241-P304+P340-P403+P235-P405-P501a

## tert-Amyl alcohol &gt; RPE-For analysis

RPE

Description .....Clear colourless liquid Boiling point .....101,3 - 102,8 °C Alkalinity (NH<sub>3</sub>) .....<=5 ppm Subst. reducing KMnO<sub>4</sub> .....<=200 ppm  
Identification.....Positive Residue on evaporation .....<=10 ppm Indole base .....<=0,1 ppm Cu .....<=0,5 ppm  
Ready carbonizable substances .....Conform Acids and esthers .....<=500 ppm Organic base (N) .....<=7 ppm Fe .....<=0,5 ppm  
Density at 20° C .....0,808 - 0,810 Acidity(valerianic.ac) .....<=50 ppm Carbonyl Compounds (CO) .....<=80 ppm Assay (GLC) .....>=99,5 %  
Refractive index at 20°C .....1,4027 - 1,4077 Water (K.F.).....<=0,2 % Pyridine and homologues .....<=30 ppm

Code	Size	Packaging	Notes
413941	250ml	Glass bottle	
413944	1l	Glass bottle	
413945	25l	Plastic tank	

## Anhydrous solvents, low content in water

Acetone.....9	1,2-Dimethoxyethane.....170	Methanol.....320
Acetonitrile.....12	n,n-Dimethylformamide.....171	Methyl isobutyl ketone.....330
Butanol-1.....90	1,4-Dioxane.....177	Methycyclohexane.....328
tert-Butanol.....91	Ethanol absolute anhydrous.....185	n-Methyl-2-pyrrolidone.....332
n-Butyl acetate.....92	Ethyl acetate.....193	n-Pentane.....374
tert-Butylmethyl ether.....94	Ethyl methyl ketone.....195	Propan-1-ol.....428
Chloroform.....121	Formamide.....212	Propan-2-ol.....429
Cyclohexane.....147	n-Heptane 99%.....227	Pyridine.....435
1,2-Dichloroethane.....157	n-Hexane.....232	Sulfolane.....525
Dichloromethane.....158	n-Hexane 99%.....231	Tetrahydrofuran.....542
Diethyl ether.....165	Isobutanol.....276	Toluene.....556
Diisopropylether.....169	Isopentane.....279	

# ANI

A

## Aniline blue soluble in alcohol

C<sub>19</sub>H<sub>10</sub>Br<sub>4</sub>O<sub>5</sub>S  
CAS : 8004-91-9



**Warning**  
3.1.O/4; H302-3.1.D/4; H312-3.1.I/4; H332  
P261-P271-P280-P304+P340-P312-P501a

### Aniline blue soluble in alcohol > RS-For microscopy-C.I. 42775

RS

Description.....Dark brown powder Identification.....Positive

Code	Size	Packaging	Notes
428612	25g	Glass bottle	

Dye for cytology

## Aniline blue soluble in water

C<sub>32</sub>H<sub>25</sub>Na<sub>3</sub>Na<sub>2</sub>O<sub>9</sub>S<sub>3</sub>  
Molecular Weight 737,74  
CAS : 28631-66-5  
EEC-N : 249-113-9



**Warning**  
3.1.O/4; H302-3.1.D/4; H312-3.1.I/4; H332  
P261-P271-P280-P304+P340-P312-P501a

### Aniline blue soluble in water > RPE-For analysis-C.I. 42755

RPE

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

Code	Size	Packaging	Notes
428582	25g	Glass bottle	

Dye for microscopy (botanical-cytology-histology). Indicator acid - base (pH 9.4 ÷ 14.0).

## Aniline hydrochloride

C<sub>6</sub>H<sub>5</sub>NH<sub>2</sub>.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**

3.1.O/3; H301-3.1.D/3; H311-3.1.I/3; H331-3.9/1; H372-3.5/2; H341-3.6/2; H351-3.3/1; H318-4.1.A/1; H400-3.4.S/1; H317  
P260-P261-P304+P340-P305+P351+P338-P405-P501a

### Aniline hydrochloride > RPE-For analysis

RPE

Description.....White crystalline powder Melting point .....196 - 199 °C  
Identification.....Positive Assay (acidimetric).....>= 98.5 %

Code	Size	Packaging	Notes
422376	500g	Plastic bottle	

## Aniline sulfate

(C<sub>6</sub>H<sub>5</sub>NH<sub>2</sub>)<sub>2</sub>.H<sub>2</sub>SO<sub>4</sub>  
Molecular Weight 284,34  
CAS : 542-16-5  
EEC-N : 208-805-0

#### Classification transport

ONU: 2811  
Transport Hazard class: 6.1  
Packing group III



**Danger**

3.1.O/3; H301-3.1.D/3; H311-3.1.I/2; H330-3.6/2; H351-4.1.A/1; H400  
P260-P271-P280-P304+P340-P405-P501a

### Aniline sulfate > RPE-For analysis

RPE


Description.....White crystalline powder Chloride .....<=20 ppm Residue on ignition .....<=100 ppm  
Identification.....Positive Water-insoluble matter .....<=100 ppm Fe.....<=10 ppm  
Water (K.F.).....<=0.5 % Heavy metals (Pb).....<=10 ppm Assay (ex nitrogen).....>=99 %

Code	Size	Packaging	Notes
422426	500g	Plastic bottle	

## Anisaldehyde

Synonym : 4-Methoxybenzaldehyde

4-CH<sub>3</sub>OC<sub>6</sub>H<sub>4</sub>CHO  
Molecular Weight 136,15  
CAS : 123-11-5  
EEC-N : 204-602-6

 **Warning**  
3.1.O/4; H302  
P264-P270-P330-P301+P312-P501a

## Anisaldehyde &gt; 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	100ml	Glass bottle	

## Anisaldehyde solution

**Classification transport**  
ONU: 2922  
Transport Hazard class: 8  
Packing group II

 **Danger**  
3.1.D/3; H311-3.8/1; H370-3.2/1A; H314  
P260-P304+P340-P305+P351+P338-P307+P311-P405-P501a


## Anisaldehyde solution &gt; RS-For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611007301	100ml	Bottle	Ref Ph.Eur 1007301
611007302	100ml	Bottle	Anisaldehyde solution R1 Ref Ph.Eur 1007302

## Anisic acid

CH<sub>3</sub>OC<sub>6</sub>H<sub>4</sub>COOH  
Molecular Weight 152,15  
CAS : 100-09-4  
EEC-N : 202-818-5

 **Warning**  
3.1.O/4; H302-3.2/2; H315-3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

## Anisic acid &gt; RPE-For analysis

RPE

Description .....White to slightly grey - beige powder Melting point .....181 - 186 °C  
Identification.....Positive Assay (GLC).....>= 97.5 %


Code	Size	Packaging	Notes
402132	25g	Glass bottle	

## p-Anisidine

Synonyms : 4-Methoxyaniline  
4-Aminoanisole

CH<sub>3</sub>OC<sub>6</sub>H<sub>4</sub>NH<sub>2</sub>  
Molecular Weight 123,15  
CAS : 104-94-9  
EEC-N : 203-254-2

**Classification transport**  
ONU: 2431  
Transport Hazard class: 6.1  
Packing group III

 **Danger**  
3.1.O/2; H300-3.1.D/1; H310-3.1.I/2; H330-3.9/2; H373-4.1.A/1; H400  
P260-P271-P302+P350-P304+P340-P405-P501a

## p-Anisidine &gt; RE-Pure

RE

Description .....Grey-black crystals Assay (GLC).....>= 98.5 %  
Identification.....Positive Melting point .....56 - 59 °C

Code	Size	Packaging	Notes
422573	50g	Glass bottle	

## Anthrone

C<sub>6</sub>H<sub>4</sub>COC<sub>6</sub>H<sub>4</sub>CH<sub>2</sub>  
Molecular Weight 194,23  
CAS : 90-44-8  
EEC-N : 201-994-0



## Warning

3.2/2; H315-3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

## Anthrone &gt; RPE-For analysis-ACS-Reag.Ph.Eur.-Reag.USP

RPE

Description.....Yellow crystals Melting point.....154 - 158 °C Solubility in Dieth.Ether.....Conform  
Identification.....Positive Absorbance of reag.sol.....Conform Sens. to carbohydrates.....Conform

Code	Size	Packaging	Notes
423281	10g	Glass bottle	

For the determination of carbohydrates.

## Antimony, powder

Sb  
Molecular Weight 121,75  
CAS : 7440-36-0  
EEC-N : 231-146-5

## Classification transport

ONU: 2871  
Transport Hazard class: 6.1  
Packaging group III



4.1.C/2; H411  
P273-P391-P501a

## Antimony, powder &gt; RPE-For analysis

RPE

Description.....Grey powder Identification.....Positive Assay (oxidimetric).....>=99 %

Code	Size	Packaging	Notes
422782	50g	Glass bottle	
422786	500g	Glass bottle	

## Antimony standard solution

## Antimony standard solution &gt; RS-For analysis according to Ph. Eur. Chap. 4.1.2

RS

Code	Size	Packaging	Notes
615000400	100ml	Bottle	A 100 ppm solution Ref Ph.Eur 5000400

## Antimony standard solution &gt; RS-Standard for ICP-MS

RS

Code	Size	Packaging	Notes
505831	50ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrofluoric acid and nitric acid
505832	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrofluoric acid and nitric acid
505835	100ml	Plastic bottle	conc. 100 ppm Matrix : Hydrofluoric acid and nitric acid

## Antimony standard solution &gt; RS-Standard for ICP

RS

Code	Size	Packaging	Notes
503891	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
503895	100ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrochloric acid
503893	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
503897	500ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrochloric acid

## Antimony standard solution &gt; RS-Standard for AAS

RS

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

Code	Size	Packaging	Notes
E497415	100ml	Glass bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
E497411	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid



## Antimony standard solution > RS-NORMEX- Concentrated solution for AAS

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

Code	Size	Packaging	Notes
422731	Normex	Plastic ampoule	conc. 1.000 ppm Matrix : Hydrochloric acid

## Antimony (III) oxide

Sb<sub>2</sub>O<sub>3</sub>  
Molecular Weight 291,5  
CAS : 1309-64-4  
EEC-N : 215-175-0



### Warning

3.6/2; H351  
P281-P201-P202-P308+P313-P405-P501a

## Antimony (III) oxide > RPE-For analysis

RPE

Description.....White powder HCl-insoluble matter .....<=50 ppm As .....<=10 ppm Assay (oxidimetric) .....>=99 %  
Identification.....Positive Nitrate .....<=20 ppm Cu .....<=10 ppm  
Antimony pentoxide .....<=0.5 % Substances not ppt. H<sub>2</sub>S .....<=0.3 % Fe .....<=10 ppm  
Chloride .....<=300 ppm Sulphate .....<=50 ppm Pb .....<=10 ppm

Code	Size	Packaging	Notes
422986	500g	Glass bottle	

## Antimony potassium tartrate

Synonym : *Tartar emetic*

C<sub>4</sub>H<sub>4</sub>KO<sub>7</sub>Sb<sub>2</sub>.1/2H<sub>2</sub>O  
Molecular Weight 333,93  
CAS : 28300-74-5

### Classification transport

ONU: 1551  
Transport Hazard class: 6.1  
Packing group III



### Warning

3.1.O/4; H302-3.1.I/4; H332-4.1.C/2; H411  
P261-P271-P304+P340-P312-P330-P501a

## Antimony potassium tartrate > RPE-For analysis-Reag. Ph. Eur.

RPE

Description.....White crystalline powder Loss on drying (105°C) .....<= 2.7 %  
Identification.....Positive Assay (iodometric) .....>= 99.0 %

Code	Size	Packaging	Notes
423035	250g	Plastic bottle	
423037	1kg	Plastic bottle	

## Antimony trichloride

Synonym : *Antimony(III) chloride*

SbCl<sub>3</sub>  
Molecular Weight 228,11  
CAS : 10025-91-9  
EEC-N : 233-047-2

### Classification transport

ONU: 1733  
Transport Hazard class: 8  
Packing group II



### Danger

3.2/1B; H314-4.1.C/2; H411  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

## Antimony trichloride > RPE-For analysis-ACS

RPE

Description.....White crystals Sulphate .....<= 50 ppm Cu .....<= 10 ppm Na .....<= 200 ppm  
Identification.....Positive As .....<= 200 ppm Fe .....<= 20 ppm Pb .....<= 50 ppm  
Chloroform insoluble .....<= 500 ppm Ca .....<= 50 ppm K .....<= 100 ppm Assay (iodometric) .....>= 99.0 %

Code	Size	Packaging	Notes
422834	100g	Glass bottle	
422835	250g	Glass bottle	

## Aqueous calcium hydroxide

## Aqueous calcium hydroxide > RPE-For analysis

RPE

Description.....Clear liquid Identification.....Positive Assay.....0.140 - 0.169 % (p/p)

Code	Size	Packaging	Notes
411921	1l	Plastic bottle	

*Saturated solution*

### Aquovitrex Erba > RS-Aqueous mounting medium for histology

RS

Description.....Yellow clear liquid Density at 20° C.....1.01 - 1.02  
 Identification.....Positive Refractive index at 20°C.....1.34 - 1.36

Code	Size	Packaging	Notes
412194	6x100ml	Glass bottle	

### L(+)Arginine

HN:C(NH<sub>2</sub>)NH(CH<sub>2</sub>)<sub>3</sub>CH(NH<sub>2</sub>)COOH  
 Molecular Weight 174,2  
 CAS : 74-79-3  
 EEC-N : 200-811-1

**Warning**

3.3/2; H319  
 P280-P264-P305+P351+P338-P337+P313

### L(+)Arginine > RPE-For analysis

RPE

Description.....White crystalline powder Melting point.....>=230 °C Assay (non-aqueous medium).....>=98 %  
 Identification.....Positive Specific optical rotation.....+26.3 - +27.7 °

Code	Size	Packaging	Notes
424271	100g	Glass bottle	

### L(+)Arginine monohydrochloride

C<sub>6</sub>H<sub>14</sub>N<sub>4</sub>O<sub>2</sub>.HCl  
 Molecular Weight 210,66  
 CAS : 1119-34-2  
 EEC-N : 214-275-1

**Warning**

3.2/2; H315-3.3/2; H319  
 P280-P264-P305+P351+P338-P332+P313-P337+P313-P362

### L(+)Arginine monohydrochloride > RPE-For analysis

RPE

Description.....White powder Ammonium.....<= 200 ppm Sulphate.....<= 300 ppm  
 Identification.....Positive Water-insoluble matter.....<= 100 ppm Fe.....<= 10 ppm  
 Specific optical rotation(c=8; HCl 6N).....+21.4 - +23.5 ° s.s. Heavy metals (Pb).....<= 10 ppm Assay (non-aqueous medium).....98.5 - 101.0 % s.s.  
 Loss on drying.....<= 0.2 % Residue on ignition.....<= 0.1 %

Code	Size	Packaging	Notes
424268	5g	Glass bottle	

### L(+)Ascorbic acid

COCOH:COHCHCHOHCH<sub>2</sub>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 Chloride.....<= 50 ppm Cu.....<=0.3 ppm  
 Identification.....Positive Water-insoluble matter.....<= 30 ppm Fe.....<=2 ppm  
 Melting point.....190.5 - 192.0 °C Heavy metals (Pb).....<=10 ppm Pb.....<=0.5 ppm  
 Specific optical rotation.....+20.5 - +21.5 ° Residue on ignition.....<=300 ppm Assay (oxidimetric).....>=99.0 %  
 Loss on drying.....<= 0.1 % Sulphate.....<= 20 ppm

Code	Size	Packaging	Notes
402404	100g	Plastic bottle	
402406	500g	Plastic bottle	
402407	1kg	Plastic bottle	

## Arsenazo III

C<sub>22</sub>H<sub>16</sub>As<sub>2</sub>N<sub>4</sub>O<sub>14</sub>S<sub>2</sub>Na<sub>2</sub>  
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**

3.1.O/3; H301-3.1.I/3; H331-4.1.A/1; H400-4.1.C/1; H410  
P261-P271-P304+P340-P301+P310-P405-P501a

## Arsenazo III &gt; RPE-For analysis

RPE

Description .....Brown granular powder Identification.....Positive Sens.as complex.indicat.....Conform

Code	Size	Packaging	Notes
424281	1g	Glass bottle	

Suitable for determination of Th, Zr, U, Cd, Zn, Ca.

## Arsenic standard solution

## Arsenic standard solution &gt; RS-For analysis according to Ph. Eur. Chap. 4.1.2

RS

Code	Size	Packaging	Notes
615000501	100ml	Bottle	A 1 ppm solution : to dilute according to Ref Ph.Eur 5000501
615000502	100ml	Bottle	A 0,1 ppm solution : to dilute according to Ref Ph.Eur 5000502
615000509	100ml	Bottle	A 10 ppm solution : to dilute according to Ref Ph.Eur 5000509

## Arsenic standard solution &gt; RS-Standard for ICP-MS

RS

Code	Size	Packaging	Notes
505311	50ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505312	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505315	100ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid

## Arsenic standard solution &gt; RS-Standard for ICP

RS

Code	Size	Packaging	Notes
503421	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503425	100ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
503423	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503427	500ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

## Arsenic trioxide solution

## Arsenic trioxide solution &gt; RS-For analysis according to USP

RS

Code	Size	Packaging	Notes
617000001	100ml	Bottle	Arsenic trioxide stock solution

## L(+) Asparagine

C<sub>4</sub>H<sub>8</sub>N<sub>2</sub>O<sub>3</sub>.H<sub>2</sub>O  
Molecular Weight 150,14  
CAS : 5794-13-8

## L(+) Asparagine &gt; RPE-For analysis

RPE

Description .....White crystalline powder Residue on ignition .....<= 0.1 % Ammonium .....<= 0.1 %  
Identification (I.R.).....Positive Heavy metals (Pb).....<= 10 ppm Chloride .....<= 0.02 %  
Specific optical rotation .....+33.5 - +36.5 ° As .....<= 1 ppm Sulphate .....<= 0.03 %  
Loss on drying .....11.5 - 12.5 % Fe.....<= 10 ppm Assay (non-aqueous medium).....98.5-101.0 % (s.s.)

Code	Size	Packaging	Notes
424544	100g	Glass bottle	
424547	1kg	Plastic bottle	

## L(+)-Aspartic acid

HOOCCHNH<sub>2</sub>CH<sub>2</sub>COOH  
 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  
 Specific optical rotation(C=8 HCl 6Nl) ..... +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-aqueous medium) ..... >= 98.0 % (s.s.)

Code	Size	Packaging	Notes
402442	25g	Glass bottle	

## ATRASOL solvents for analysis of Organic Volatile Impurities (OVI) in pharmaceutical products according to ICH, USP and EP

n,n-Dimethylformamide .....171 Dimethylsulphoxide.....174

## ATRASOL solvents for Hydrocarbon index determination according to EN ISO 9377-2

Isohexane .....277 n-Pentane.....374  
 n-Hexane.....232 Petroleum ether 35 - 60°C .....382


## ATRASOL solvents for the detection of traces of organic compounds by GC analysis

Acetone .....9 Ethyl acetate .....193 n-Pentane 99% .....373  
 Chloroform .....121 n-Hexane 99% .....231 Toluene .....556  
 Dichloromethane .....158 Methanol.....320

## Atropine

C<sub>17</sub>H<sub>23</sub>NO<sub>3</sub>  
 Molecular Weight 289,38  
 CAS : 51-55-8  
 EEC-N : 200-104-8

**Classification transport**  
 ONU: 1544  
 Transport Hazard class: 6.1  
 Packing group I

 **Danger**  
 3.1.O/2; H300-3.1.I/2; H330  
 P260-P271-P284-P304+P340-P405-P501a

### Atropine > RS-For microanalysis

**RS**


Description ..... White powder Identification ..... Positive Assay (non-aqueous medium) ..... >= 99 %

Code	Size	Packaging	Notes
424563	1g	Glass bottle	

## Auramine O

C<sub>17</sub>H<sub>21</sub>N<sub>3</sub>.HCl.H<sub>2</sub>O  
 Molecular Weight 321,86  
 CAS : 2465-27-2  
 EEC-N : 219-567-2

**Classification transport**  
 ONU: 3143  
 Transport Hazard class: 6.1  
 Packing group III

 **Danger**  
 3.1.D/3; H311-3.1.O/4; H302-3.3/2; H319  
 P280-P305+P351+P338-P312-P330-P405-P501a

### Auramine O > RPE-For analysis-C.I. 41000

**RPE**

Description ..... Yellow powder Identification ..... Positive

Code	Size	Packaging	Notes
424591	10g	Glass bottle	

*Dye for microscopy (bacteriology-fluorescence). Suitable for the determination of lead.*

## Ausilab 101

## ▶ Ausilab 101 &gt; RS-Detergent

RS

Code	Size	Packaging	Notes
ECO2184680	4x5kg	Plastic bottle	

## Ausilab 104

## ▶ Ausilab 104 &gt; RS-Detergent

RS

Code	Size	Packaging	Notes
ECO2184650	4x5kg	Plastic bottle	

## Ausilab 201

## ▶ Ausilab 201 &gt; RS-Detergent

RS

Code	Size	Packaging	Notes
ECO2166330	10kg	Plastic tank	

## Ausilab 205

## ▶ Ausilab 205 &gt; RS-Detergent

RS

Code	Size	Packaging	Notes
ECO2248570	5kg	Plastic tank	

## Ausilab 208

## ▶ Ausilab 208 &gt; RS-Detergent

RS

Code	Size	Packaging	Notes
ECO2248580	5kg	Plastic tank	

## Ausilab 300

## ▶ Ausilab 300 &gt; RS-Detergent

RS

Code	Size	Packaging	Notes
ECO2190890	1kg	Dispenser	

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

Ammonium nitrate 200 mg/L solution .....	43	Magnesium nitrate 10 g/L solution .....	304	Thorium nitrate 10 mg/L solution.....	548
Cesium chloride 25 g/L solution .....	115	Nickel (II) nitrate 10g/l.....	350	Water deionized and acidified.....	576
di-Ammonium hydrogen phosphate 25 mg/L solution .....	41	Palladium nitrate 2 g/L solution.....	369		
Lanthanum chloride 25 g/L solution .....	287	Potassium chloride 25g/l in HCl.....	401		

## Azobenzene

Synonym : *Diphenyldiazene*

C<sub>6</sub>H<sub>5</sub>N:NC<sub>6</sub>H<sub>5</sub>  
 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**

3.6/1B; H350-3.5/2; H341-3.9/2; H373-4.1.A/1; H400-4.1.C/1; H410-3.1.O/4; H302-3.1.I/4; H332-A26  
 P260-P261-P271-P304+P340-P405-P501a

### Azobenzene > RPE-For analysis

RPE

Description .....Red-orange crystalline powder Melting point .....67 - 69 °C Residue on ignition .....<=100 ppm  
 Identification.....Positive Water-insoluble matter .....<=100 ppm Assay (oxidimetric) .....99 - 100 %

Code	Size	Packaging	Notes
424701	5g	Glass bottle	

## Azomethine H

C<sub>17</sub>H<sub>12</sub>NNaO<sub>8</sub>S<sub>2</sub>  
 Molecular Weight 445,4  
 CAS : 206752-32-1



**Warning**

3.2/2; H315-3.3/2; H319-3.8/3; H335  
 P261-P271-P304+P340-P305+P351+P338-P405-P501a

### Azomethine H > RPE-For analysis

RPE

Description .....Yellow orange powder Identification.....Positive

Code	Size	Packaging	Notes
424691	10g	Glass bottle	

*Suitable for the determination of boron.*

## Azure II

CAS : 37247-10-2

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



**Danger**

3.3/1; H318-3.1.O/4; H302-3.1.I/4; H332  
 P261-P271-P280-P304+P340-P305+P351+P338-P501a

### Azure II > RS-For microscopy-C.I. 52010/52015

RS

Description .....Powder black with green reflections 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	5g	Glass bottle	

*Dye for bacteriology and hematology. mix Azur - methylene blue.*

## Azure II eosin

CAS : 53092-85-6

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



**Danger**

3.3/1; H318-3.1.O/4; H302-3.1.D/4; H312-3.1.I/4; H332  
 P261-P271-P280-P304+P340-P305+P351+P338-P501a

### Azure II eosin > RS-For microscopy-C.I. 52010/52015/45380

RS

Code	Size	Packaging	Notes
424731	5g	Glass bottle	

*Dye for bacteriology, hematology histopathology. Mix Azur - Methylene blue - eosin.*

## Barbituric acid

Synonyms : 2,4,6-Trihydroxypyrimidine  
MalonylureaNHCONHCOCH<sub>2</sub>CO  
Molecular Weight 128,09  
CAS : 67-52-7  
EEC-N : 200-658-0

B

## ▶ Barbituric acid &gt; RPE-For analysis-Reag. Ph. Eur.

RPE

Description .....White crystalline powder Loss on drying .....<= 0.5 % Assay (acidimetric) .....99.0 - 101.0 %  
Identification .....Positive Heavy metals (Pb) .....<= 20 ppm  
Melting point .....248 - 255 °C Sulphated ash .....<= 0.2 %

Code	Size	Packaging	Notes
402532	25g	Glass bottle	
402535	250g	Glass bottle	

## Barium standard solution

## ▶ Barium standard solution &gt; RS-For analysis according to Ph. Eur. Chap. 4.1.2

RS

Code	Size	Packaging	Notes
615000601	100ml	Bottle	A 0.1 % solution Ref Ph.Eur 5000601
615000609	100ml	Bottle	A 50 ppm solution : to dilute according to Ref Ph.Eur 5000600

## ▶ Barium standard solution &gt; RS-Standard for ICP-MS

RS

Code	Size	Packaging	Notes
505326	50ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505327	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505328	100ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid

## ▶ Barium standard solution &gt; RS-Standard for ICP

RS

Code	Size	Packaging	Notes
503451	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
503455	100ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrochloric acid
503453	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
503457	500ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrochloric acid

## ▶ Barium standard solution &gt; RS-Standard for AAS

RS

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

Code	Size	Packaging	Notes
E497445	100ml	Glass bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
E497441	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid

## ▶ Barium standard solution &gt; RS-NORMEX- Concentrated solution for AAS

RS

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

Code	Size	Packaging	Notes
424861	Normex	Glass ampoule	conc. 1.000 ppm Matrix : Nitric acid

## Barium acetate

Ba(CH<sub>3</sub>COO)<sub>2</sub>  
Molecular Weight 255,42  
CAS : 543-80-6  
EEC-N : 208-849-0

## Classification transport

ONU: 1564  
Transport Hazard class: 6.1  
Packing group III

## ⚠ Warning

3.1.0/4; H302-3.1.1/4; H332  
P261-P271-P304+P340-P312-P330-P501a

## ▶ Barium acetate &gt; RPE-For analysis-ACS

RPE

K .....<= 30 ppm Water-insoluble matter .....<= 100 ppm Heavy metals (Pb) .....<= 5 ppm Fe .....<= 10 ppm  
Description .....White crystalline powder Oxidizing subst.(NO<sub>3</sub>) .....<= 50 ppm Ca .....<= 500 ppm Sr .....<= 0.2 %  
Identification .....Positive Chloride .....<= 10 ppm Na .....<= 50 ppm Assay (complexometric) .....99.0 - 102.0 %

Code	Size	Packaging	Notes
424896	500g	Plastic bottle	


# BAR

## Barium carbonate

B

BaCO<sub>3</sub>  
Molecular Weight 197,34  
CAS : 513-77-9  
EEC-N : 208-167-3

**Classification transport**  
ONU: 1564  
Transport Hazard class: 6.1  
Packing group III

 **Warning**  
3.1.O/4; H302  
P264-P270-P330-P301+P312-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.(NO<sub>3</sub>) .....<= 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	250g	Plastic bottle	
424943	25kg	Fibre drum	

### Barium carbonate > RE-Pure

RE


Description .....Hazel-white powder  
Identification .....Positive  
Fe .....<= 50 ppm  
Assay (alkalimetric) .....>= 99.0 %

Code	Size	Packaging	Notes
321507	1kg	Plastic bottle	
321502	25kg	Drum	

## Barium chloranilate

C<sub>6</sub>O<sub>4</sub>Cl<sub>2</sub>Ba.3H<sub>2</sub>O  
Molecular Weight 398,36  
CAS : 13435-46-6  
EEC-N : 236-567-8

**Classification transport**  
ONU: 1564  
Transport Hazard class: 6.1  
Packing group III

 **Warning**  
3.1.O/4; H302-3.1.I/4; H332  
P261-P271-P304+P340-P312-P330-P501a

### Barium chloranilate > RPE-For analysis

RPE

Description .....Brown powder  
Identification .....Positive  
Loss on drying .....13 - 15 %  
Chloride .....<=500 ppm  
Heavy metals (Pb) .....<=10 ppm  
Sulphate sensitivity .....(0.001) mg/ml  
Fe .....<=10 ppm  
Assay (gravimetric) .....>=95 %


Code	Size	Packaging	Notes
425013	25g	Glass bottle	

Suitable for the colorimetric determination of the sulfates.

## Barium chloride dihydrate

BaCl<sub>2</sub>.2H<sub>2</sub>O  
Molecular Weight 224,27  
CAS : 10326-27-9  
EEC-N : 233-788-1

**Classification transport**  
ONU: 1564  
Transport Hazard class: 6.1  
Packing group III

 **Warning**  
3.1.O/4; H302-3.1.I/4; H332  
P261-P271-P304+P340-P312-P330-P501a

### 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 (NO<sub>3</sub>) .....<= 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 H<sub>2</sub>SO<sub>4</sub> .....<= 0.03 %  
Sr .....<= 0.05 %

Code	Size	Packaging	Notes
425026	500g	Plastic bottle	
425027	1kg	Plastic bottle	
425029	5kg	Plastic bottle	
425022	25kg	Drum	



► Barium chloride dihydrate > RE-Pure

Description..... White crystals Identification.....Positive Assay (argentimetric).....>=98 %

Code	Size	Packaging	Notes
321757	1kg	Plastic bottle	
321752	25kg	Drum	

## Barium chloride solution 10%



**Warning**

3.1.O/4; H302  
P264-P270-P330-P301+P312-P501a

► Barium chloride solution 10% > RPE-For analysis

RPE

Description.....Clear colourless liquid Density at 15° C.....1.08 - 1.10  
Identification.....Positive Assay (argentimetric).....9.5 - 10.5 %

Code	Size	Packaging	Notes
E425101	1l	Plastic bottle	

Suitable for water analysis

## Barium chloride solution 0.14%

► Barium chloride solution 0.14% > RPE-For analysis

RPE

Description.....Clear colourless liquid Identification.....Positive

Code	Size	Packaging	Notes
E425171	1l	Plastic bottle	

Suitable for wine analysis according to Marty

## Barium chloride 0.1 mol/l (0.2N)

► 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	1l	Bottle	Ref Ph.Eur 3000600

## Barium chloride solution 61 g/l



**Warning**

3.1.O/4; H302  
P264-P270-P330-P301+P312-P501a

► Barium chloride solution 61 g/l > RS-For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611009303	100ml	Bottle	Barium chloride solution R1 Ref Ph.Eur 1009301
611009309	250ml	Bottle	Barium chloride solution R1 Ref Ph.Eur 1009301
611009301	1l	Bottle	Barium chloride solution R1 Ref Ph.Eur 1009301

# BAR

## Barium chloride solution 36.5 g/l

B

### ▶ Barium chloride solution 36.5 g/l > RS-For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611009302	1l	Bottle	Ref Ph.Eur 1009302

## Barium chloride solution

### ▶ Barium chloride solution > RS-For analysis according to JP

RS

Code	Size	Packaging	Notes
616001018	100ml	Bottle	Barium chloride TS

### ▶ Barium chloride solution > RS-For analysis according to USP

RS

Code	Size	Packaging	Notes
617000161	100ml	Bottle	Barium chloride TS

## Barium chromate

BaCrO<sub>4</sub>  
Molecular Weight 253,33  
CAS : 10294-40-3  
EEC-N : 233-660-5

**Classification transport**  
ONU: 1564



**Warning**  
3.1.O/4; H302-3.1.I/4; H332  
P261-P271-P304+P340-P312-P330-P501a

### ▶ Barium chromate > RE-Pure

RE

Description ..... Yellow powder  
Identification ..... Positive  
HCl-insoluble matter ..... <= 0.1 %  
Chloride ..... <= 100 ppm  
Fe ..... <= 20 ppm  
Assay (oxidimetric) ..... >= 99 %

Code	Size	Packaging	Notes
425245	250g	Glass bottle	

## Barium hydroxide octahydrate

Ba(OH)<sub>2</sub>·8H<sub>2</sub>O  
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



**Warning**  
3.1.O/4; H302-3.1.I/4; H332  
P261-P271-P304+P340-P312-P330-P501a

### ▶ Barium hydroxide octahydrate > RPE-For analysis

RPE

Description ..... White crystals  
Identification ..... Positive  
Carbonate ..... <=2.0 %  
Chloride ..... <=10 ppm  
HCl-insoluble matter ..... <=50 ppm  
Heavy metals (Pb) ..... <=5 ppm  
Sulphide ..... <=5 ppm  
Ca ..... <=50 ppm  
Fe ..... <=5 ppm  
Sr ..... <=1.5 %  
Assay (alkalimetric) ..... >=98.0 %

Code	Size	Packaging	Notes
425297	1kg	Plastic bottle	
425292	25kg	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	1kg	Plastic bottle	
322009	5kg	Plastic bottle	
322001	25kg	Plastic bucket	
322004	50kg	Fiber drum	

## Barium hydroxide solution 5%



**Danger**  
3.2/1C; H314  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

### Barium hydroxide solution 5% > RPE-For analysis

RPE

Description .....Clear colourless liquid Density at 20° C.....>=1.03  
Identification.....Positive Assay.....4.7 - 5.3 % (p/p)

Code	Size	Packaging	Notes
E425301	1l	Plastic bottle	

## Barium hidroxide solution 47.3 g/l



**Danger**  
3.3/1; H318-3.2/2; H315  
P280-P264-P305+P351+P338-P332+P313-P362-P302+P352

### Barium hidroxide solution 47.3 g/l > RS-For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611009409	250ml	Bottle	Ref Ph.Eur 1009401
611009401	1l	Bottle	Ref Ph.Eur 1009401

## Barium nitrate

Ba(NO<sub>3</sub>)<sub>2</sub>  
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



**Warning**  
3.1.0/4; H302-3.1.1/4; H332  
P261-P271-P304+P340-P312-P330-P501a

### Barium nitrate > RPE-For analysis-ACS

RPE

Description.....White crystals Chloride .....<= 10 ppm Assay .....>= 99.0 %  
Identification.....Positive Fe.....<= 5 ppm Heavy metals (Pb).....<= 10 ppm  
pH sol. 5% at 25° C.....5.0 - 8.0 Ca.....<= 0.005 %

Code	Size	Packaging	Notes
425347	1kg	Plastic bottle	
425341	25kg	Fibre drum	

## Barium perchlorate trihydrate

Ba(ClO<sub>4</sub>)<sub>2</sub>·3H<sub>2</sub>O  
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**  
2.14/1; H271-3.1.0/4; H302-3.1.1/4; H332  
P210-P221-P283-P261-P304+P340-P501a

### 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. H<sub>2</sub>S .....<=0.1 % Na .....<=100 ppm Assay (complexometric).....>=99.8 %  
Chloride .....<=10 ppm Ca .....<=100 ppm Ni .....<=25 ppm


Code	Size	Packaging	Notes
425411	50g	Glass bottle	

# BAR

## Barium perchlorate 0.05 mol/l

B

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

 **Danger**  
 2.6/2; H225-3.2/1A; H314  
 P210-P241-P304+P340-P305+P351+P338-P403+P235-P405-P501a

### Barium perchlorate 0.05 mol/l > RS-For analysis according to Ph. Eur. Chap. 4.2.2


RS

Code	Size	Packaging	Notes
613000700	1l	Bottle	Ref Ph.Eur 3000700

## Barium peroxide

BaO<sub>2</sub>  
 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**  
 2.14/2; H272-3.1.0/4; H302-3.1.1/4; H332  
 P210-P221-P261-P271-P304+P340-P501a

### Barium peroxide > RE-Pure

RE

Description.....Hazel powder HCl-insoluble matter .....<=2.5 % Fe .....<=200 ppm  
 Identification.....Positive Heavy metals (Pb).....<=100 ppm Assay (oxidimetric) .....>=85 %  
 Chloride .....<=200 ppm Substances not ppt. H<sub>2</sub>S .....<=1 %

Code	Size	Packaging	Notes
322401	1kg	Plastic bottle	
322402	10kg	Plastic bottle	

## Barium sulfate

BaSO<sub>4</sub>  
 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 (H<sub>2</sub>SO<sub>4</sub>).....<=100 ppm Soluble barium salts .....<=50 ppm Fe .....<=20 ppm Assay (complexometric) .....>=97 %  
 Alkalinity(Ba idroside).....<=40 ppm Soluble salts .....<=0.2 % K .....<=100 ppm

Code	Size	Packaging	Notes
425497	1kg	Plastic bottle	

### Barium sulfate > RE-Pure

RE

Description.....White powder Chloride .....<=0.1 % Subst. reducing KMnO<sub>4</sub> .....<=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	1kg	Plastic bottle	

## Bathophenanthroline sulfonate sodium salt

C<sub>24</sub>H<sub>14</sub>N<sub>2</sub>.2(NaO<sub>3</sub>S)  
 Molecular Weight 536,5  
 CAS : 52746-49-3  
 EEC-N : 258-152-0

### Bathophenanthroline sulfonate sodium salt > RPE-For analysis

RPE

Description.....Brown powder Residue on ignition .....21 - 27 %  
 Identification.....Positive Iron sensitivity .....<= 0,5 µg/ml

Code	Size	Packaging	Notes
425601	0,5g	Glass bottle	

Suitable for the determination of iron. Soluble in water.

## Benedict's reagent

4.1.C/3; H412-EUH031  
P273-P501a

B

## Benedict's reagent &gt; RS-For microscopy

RS

Description .....Clear blue liquid Identification.....Positive

Code	Size	Packaging	Notes
E425742	1l	Glass bottle	

Suitable for the qualitative determination of glucose in urine.

## Benzaldehyde

C<sub>6</sub>H<sub>5</sub>CHO  
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

3.1.O/4; H302  
P264-P270-P330-P301+P312-P501a

## Benzaldehyde &gt; 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	500ml	Glass bottle	

## Benzalkonium chloride

Synonym : Alkylbenzyltrimethylammonium chloride

[C<sub>6</sub>H<sub>5</sub>CH<sub>2</sub>N(CH<sub>3</sub>)<sub>2</sub>R]<sup>+</sup>Cl<sup>-</sup>  
Molecular Weight 365  
CAS : 63449-41-2  
EEC-N : 264-151-6

## Classification transport

ONU: 3259  
Transport Hazard class: 8  
Packing group II

## Danger

3.2/1B; H314-4.1.A/1; H400-3.1.O/4; H302-3.1.D/4; H312  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

## Benzalkonium chloride &gt; ERBAPharm-According to pharmacopoeia: NF

ERBAPharm

Description .....Powder , yellowish-white gelatinous  
 Identification.....Positive  
 Water not sol. matter.....Conform NF

Amines foreign .....Conform NF  
 Report Comp. alkyl(HPLC) .....Conform NF  
 Water .....<= 15.0 %

Residue on calcination .....<= 2.0 %  
 Assay .....97.0 - 103.0 % s.s.

Code	Size	Packaging	Notes
322737	1kg	Plastic bottle	

## Benzalkonium chloride &gt; RE-Pure

RE

Description .....Yellow liqui-solid  
 Identification.....Positive

Aspect solution 1% .....Conform  
 Water (K.F.).....<= 10 %

Sulphated ash.....<= 0.1 %  
 Assay (non-aqueous medium).....97.0 - 103.0 % (s.s.)

Code	Size	Packaging	Notes
322721	250g	Plastic bottle	

## Benzene

C<sub>6</sub>H<sub>6</sub>  
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

2.6/2; H225-3.5/1B; H340-3.6/1A; H350-3.9/1; H372-3.10/1; H304-3.2/2; H315-3.3/2; H319-A26  
P210-P241-P305+P351+P338-P403+P235-P405-P501a

## Benzene &gt; RPE-For analysis-ACS

RPE

Description .....Clear liquid  
 Colour.....<=10 APHA  
 Ready carbonizable substances .....Conform

Water (K.F) .....<=500 ppm  
 Residue on evaporation .....<=10 ppm  
 Thiophene.....Conform

Total sulphur.....<=5 ppm  
 Assay (GLC).....>=99.0 %


Code	Size	Packaging	Notes
426113	2,5l	Glass bottle	

# BEN

## Benzene-d6

C<sub>6</sub>D<sub>6</sub>  
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**  
2.6/2; H225-3.1.O/3; H301-3.1.D/3; H311-3.1.I/2; H330-3.6/1A; H350-A26  
P210-P241-P304+P340-P403+P235-P405-P501a

### Benzene-d6 > RS-For NMR-min 99.5%

RS

Code	Size	Packaging	Notes
P5089	10x0,75ml	Ampoule	
P5085	25ml	Glass bottle	
P5086	100ml	Glass bottle	

### Benzene-d6 > RS-For NMR-min 99.96%


RS

Code	Size	Packaging	Notes
P5100	10x0,6ml	Ampoule	

## Benzenesulfonyl chloride

C<sub>6</sub>H<sub>5</sub>SO<sub>2</sub>Cl  
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**  
3.2/1B; H314-3.1.O/4; H302  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

### Benzenesulfonyl chloride > RPE-For analysis

RPE

Description ..... Clear colourless liquid Density at 20° C ..... ~ 1.377 Melting point ..... 15 - 17 ° C  
Identification ..... Positive Refractive index at 20°C ..... ~ 1.552 Assay ..... >=99 %

Code	Size	Packaging	Notes
426231	10ml	Glass bottle	

For derivatization.

## Benzhydrol

Synonyms : Diphenylmethanol  
Diphenyl carbinol

C<sub>6</sub>H<sub>5</sub>CHOHC<sub>6</sub>H<sub>5</sub>  
Molecular Weight 184,23  
CAS : 91-01-0  
EEC-N : 202-033-8

### Benzhydrol > RPE-For analysis


RPE

Description ..... White crystals Melting point ..... 68.0 - 70.0 ° C  
Identification ..... Positive Residue on ignition ..... <=0.1 %

Code	Size	Packaging	Notes
426403	50g	Plastic bottle	

## Benzoic acid

C<sub>6</sub>H<sub>5</sub>COOH  
Molecular Weight 122,12  
CAS : 65-85-0  
EEC-N : 200-618-2

 **Danger**  
3.3/1; H318-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

### Benzoic acid > RS-For analysis according to Ph. Eur. Chap. 4.2.1

RS

Code	Size	Packaging	Notes
612000200	100g	Bottle	Ref Ph.Eur 2000200

## ▶ Benzoic acid > RS-For volumetry

**RS**

Description .....White crystalline powder Identification.....Positive Assay (acidimetric).....&gt;=99.8 %

Code	Size	Packaging	Notes
402621	10g	Glass bottle	

## ▶ Benzoic acid > RPE-For analysis-ACS

**RPE**

 Description .....White crystalline powder Subst. reducing KMnO4 .....Conform Sulphur compounds .....<= 0.002 %  
 Identification (I.R.).....Positive Heavy metals (Pb) .....<= 5 ppm Residue on calcination .....<= 0.005 %  
 Insol. in methanol.....<= 0.005 % Chlorinated compounds .....<= 0.005 % Assay (acidimetric) .....>= 99.5 %

Code	Size	Packaging	Notes
402635	250g	Plastic bottle	
402637	1kg	Plastic bottle	

## ▶ Benzoic acid > ERBAPharm-According to pharmacopoeia: Ph.Eur.-USP-FU-Ph.Franc.-BP

**ERBAPharm**

 Description .....White crystalline powder Oxidizing substances.....Conform Ph.Eur. Heavy metals (Pb) .....<=10 ppm  
 Identification.....Positive Freezing point .....121 - 123 °C Assay (acidimetric) .....99.5 - 100.5 %s.s.  
 Appearance of solution.....Conform Ph.Eur. Water (K.F.).....<=0.7 % Origin (BSE/TSE) .....Synthesis  
 Carbonizable substances.....Conform Ph.Eur. Sulphated ash.....<=0.05 % Residual solvents (CPMP/ICH/283/95) .....Conform  
 Carbonizable substances.....Conform USP Halogenated and halides .....<=300 ppm

Code	Size	Packaging	Notes
302087	1kg	Plastic bottle	
302089	5kg	Plastic bottle	
302082	25kg	Plastic bucket	

## ▶ Benzoic acid > RE-Pure

**RE**

 Description .....White crystalline powder Melting point .....122.0 - 123.0 °C Heavy metals (Pb) .....<=5 ppm Total sulphur.....<=50 ppm  
 Identification.....Positive Total chlorine.....<=300 ppm Residue on ignition.....<=100 ppm Fe.....<=3 ppm  
 NH4OH Solubility.....Conform Methyl alcohol insolub.....<=50 ppm Subst. reducing KMnO4 .....<=200 ppm Assay (acidimetric) .....99.8 - 100.0 %

Code	Size	Packaging	Notes
302111	50kg	Fibre drum	

## p-Benzoquinone

Synonym : Quinone

C<sub>6</sub>H<sub>4</sub>O<sub>2</sub>  
 Molecular Weight 108,10  
 CAS : 106-51-4  
 EEC-N : 203-405-2

**Classification transport**  
 ONU: 2587  
 Transport Hazard class: 6.1  
 Packing group II


**Danger**

3.1.0/3; H301-3.1.1/3; H331-4.1.A/1; H400-3.2/2; H315-3.3/2; H319-3.8/3; H335  
 P261-P271-P304+P340-P305+P351+P338-P405-P501a

## ▶ p-Benzoquinone > RPE-For analysis

**RPE**

 Description .....Yellow crystals Alcohol-insolub. matter .....<=200 ppm Fe.....<=10 ppm  
 Identification.....Positive Heavy metals (Pb) .....<=10 ppm Assay (oxidimetric) .....>=99 %  
 Melting point .....113.5 - 118.5 °C Residue on ignition .....<=0.1 %  
 Total chlorine.....<=40 ppm Total sulphur .....<=20 ppm

Code	Size	Packaging	Notes
436853	50g	Glass bottle	
436854	100g	Plastic bottle	

For spectrophotometric microdétermination amines.

## Benzoyl chloride

C<sub>6</sub>H<sub>5</sub>COCl  
 Molecular Weight 140,57  
 CAS : 98-88-4  
 EEC-N : 202-710-8

**Classification transport**  
 ONU: 1736  
 Transport Hazard class: 8  
 Packing group II


**Danger**

3.2/1B; H314-3.1.0/4; H302-3.1.D/4; H312-3.1.I/4; H332-3.4.S/1; H317  
 P260-P261-P304+P340-P305+P351+P338-P405-P501a

## ▶ Benzoyl chloride > RPE-For analysis-ACS

**RPE**

 Description .....Clear colourless liquid Total phosphorus .....<=20 ppm Fe.....<=10 ppm  
 Identification.....Positive Heavy metals (Pb) .....<=10 ppm Assay (acidimetric) .....98.0 - 100.5 %  
 Freezing point .....-2.0 - 0.0 °C Residue on ignition .....<=50 ppm

Code	Size	Packaging	Notes
427291	250ml	Glass bottle	
427292	1l	Glass bottle	

# BEN

## Benzoyl chloride > RE-Pure

**RE**

Description ..... Yellow clear liquid      Density at 20° C ..... 1.200 - 1.220      Assay (acidimetric) ..... >= 98.0 %  
Identification ..... Positive      Boiling point ..... 196.2 - 198.2 °C      Freezing point ..... -2 - 0 °C

Code	Size	Packaging	Notes
323751	1l	Glass bottle	

## Benzyl alcohol

Synonym : Benzenemethanol

C<sub>6</sub>H<sub>5</sub>CH<sub>2</sub>OH  
Molecular Weight 108,14  
CAS : 100-51-6  
EEC-N : 202-859-9

**Warning**

3.1.O/4; H302-3.1.I/4; H332  
P261-P271-P304+P340-P312-P330-P501a

## Benzyl alcohol > RPE-For analysis-Stabilized with 0,02% BHA

**RPE**

Description ..... Clear colourless liquid      Boiling point ..... 204.9 - 205.9 °C      Benzaldehyde(GLC) ..... <=0.1 %      Peroxides (H<sub>2</sub>O<sub>2</sub>) ..... <=10 ppm  
Identification (I.R.) ..... Conform      Acidity (benzoic acid) ..... <=200 ppm      Total chlorine ..... <=50 ppm      Residue on ignition ..... <=20 ppm  
Water miscibility ..... Conform      Water (K.F.) ..... <=0.1 %      Carbonyl Compounds (CO) ..... <=100 ppm      Fe ..... <=10 ppm  
Refractive index at 20°C ..... 1.5376 - 1.5416      Alcalinity (NaOH) ..... <=34 ppm      Heavy metals (Pb) ..... <=5 ppm      Assay (GLC) ..... >=99.5 %

Code	Size	Packaging	Notes
414052	1l	Glass bottle	

Store between 2°-8°C.

## Benzyl alcohol > RPE-For analysis

**RPE**

Description ..... Clear liquid      Refractive index at 20° C ..... ~ 1.54      Benzaldehyde ..... <=0.1 %  
Colour ..... <=10 APHA      Boiling point ..... 204.5 - 205.5 °C      Assay (GLC) ..... >=99.8 %  
Identification ..... Positive      Water (K.F.) ..... <=0.1 %  
Density at 20° C ..... ~ 1.04      Total chlorine ..... <=100 ppm

Code	Size	Packaging	Notes
414022	1l	Glass bottle	
414024	2,5l	Glass bottle	

## Benzyl alcohol > ERBAPharm-According to pharmacopoeia: BP-FU-NF-Ph.Eur.-Ph.Franc.

**ERBAPharm**

Description ..... Clear colourless liquid      Refractive index at 20°C ..... 1.538 - 1.541      Solubility ..... Conform Ph.Eur.  
Identification ..... Positive      Residue on evaporation ..... <=500 ppm      Cyclohexylmethanol (GLC) ..... <=0.10 %  
Appearance of solution ..... Conform Ph.Eur.      Analogous subst. GLC ..... Conform Ph.Eur.      Peaks sum rel.ret. less than C<sub>6</sub>H<sub>5</sub>CH<sub>2</sub>OH ..... <= 0.04 %  
Acidity ..... Conform Ph.Eur.      Benzaldehyde (GLC) ..... <=0.15 %      Peaks sum rel.ret. great than C<sub>6</sub>H<sub>5</sub>CH<sub>2</sub>OH ..... <= 0.3 %  
Density at 20° C ..... 1.043 - 1.049      Peroxide value ..... <=5      Assay (acidimetric) ..... 98.0 - 100.5 %

Code	Size	Packaging	Notes
308132	2,5l	Glass bottle	
308138	23kg	Glass-polystyrene container	

## Benzylamine

C<sub>6</sub>H<sub>5</sub>CH<sub>2</sub>NH<sub>2</sub>  
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**

3.2/1B; H314-2.6/3; H226-3.1.O/4; H302-3.1.D/4; H312  
P210-P241-P304+P340-P305+P351+P338-P403+P235-P405-P501a

## Benzylamine > RPE-For analysis

**RPE**

Description ..... Yellow clear liquid      Density at 20° C ..... 0.979 - 0.983      Boiling point ..... 184.5 - 185.5 °C  
Identification ..... Positive      Refractive index at 20°C ..... 1.5425 - 1.5445      Assay (GLC) ..... >=99 %



Code	Size	Packaging	Notes
426453	100ml	Glass bottle	



## Benzyl benzoate

$C_6H_5COOCH_2C_6H_5$   
Molecular Weight 213,25  
CAS : 120-51-4  
EEC-N : 204-402-9

**Classification transport**  
ONU: 2810  
Transport Hazard class: 6.1  
Packing group III

  **Warning**  
3.1.O/4; H302-4.1.C/2; H411  
P273-P264-P270-P330-P301+P312-P501a

B

## Benzyl benzoate &gt; RPE-For analysis

RPE

Description ..... Clear liquid      Refractive index at 20°C ..... 1.5651 - 1.5711      Acidity (benzoic acid) ..... <= 0.12 %  
Identification ..... Positive      Melting point ..... 18.6 - 20.2 °C      Carbonyl Compounds (CO) ..... <= 0.04 %  
Density at 20°C ..... 1.118 - 1.122      Water (K.F.) ..... <= 0.05 %      Assay (GLC) ..... >= 99 %

Code	Size	Packaging	Notes
426761	250ml	Glass bottle	
426763	1l	Glass bottle	

## Benzyl benzoate &gt;

ERBAPharm-According to pharmacopoeia: Ph.Eur.-USP-FU-Ph.Franc.-BP

ERBAPharm


Description ..... Clear colourless liquid      Density at 20° C ..... 1.118 - 1.122      Aldehyde ..... <= 0.05 %  
Identification ..... Positive      Density at 25° C ..... 1.116 - 1.120      Sulphated ash ..... <= 0.1 %  
Acidity ..... Conform Ph.Eur.      Refractive index at 20°C ..... 1.568 - 1.570      Assay (alkalimetric) ..... 99.0 - 100.5 %  
Organic volatile impurities ..... Conform USP-NF      Freezing point ..... >= 17.0 ° C

Code	Size	Packaging	Notes
323101	1l	Glass bottle	
323102	2,5l	Glass bottle	
323105	30kg	Metal tank	

## S-Benzylisothiourea 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**  
3.1.O/3; H301  
P264-P270-P301+P310-P330-P405-P501a

## S-Benzylisothiourea hydrochloride &gt; RPE-For analysis

RPE

Description ..... White shining crystals      Suitable for sulphon.prec ..... Conform      Residue on ignition ..... <=500 ppm  
Identification ..... Positive      Loss on drying ..... <=1 %      Assay (argentimetric) ..... >= 98 %

Code	Size	Packaging	Notes
426962	25g	Glass bottle	

## Beryllium standard solution

## Beryllium standard solution &gt; RS-Standard for ICP-MS

RS

Code	Size	Packaging	Notes
505331	50ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505332	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505335	100ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid

## Beryllium standard solution &gt; RS-Standard for ICP

RS

Code	Size	Packaging	Notes
503461	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
503465	100ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrochloric acid
503463	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
503467	500ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrochloric acid

## Bis(ethylenediamine)copper(II) hydroxide solution 1 mol/l

B

► 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	1l	Bottle	Ref Ph.Eur 3008700

## n,o-Bis(trimethylsilyl)acetamide

CH<sub>3</sub>C[NSi(CH<sub>3</sub>)<sub>3</sub>]OSi(CH<sub>3</sub>)<sub>3</sub>  
Molecular Weight 203,43  
CAS : 10416-59-8  
EEC-N : 233-892-7

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

 **Warning**  
2.6/3; H226-3.1.O/4; H302  
P210-P241-P243-P330-P403+P235-P501a

► 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	25ml	Glass bottle	

For derivatization.

## n,o-Bis(trimethylsilyl)-trifluoroacetamide

C<sub>8</sub>H<sub>18</sub>F<sub>3</sub>NOSi<sub>2</sub>  
Molecular Weight 257,4  
CAS : 25561-30-2  
EEC-N : 247-103-9

**Classification transport**  
ONU: 2920  
Transport Hazard class: 3  
Packing group II

 **Danger**  
3.2/1B; H314-2.6/3; H226  
P210-P241-P304+P340-P305+P351+P338-P403+P235-P405-P501a

► n,o-Bis(trimethylsilyl)-trifluoroacetamide > RPE-For analysis

RPE


Description .....Yellow clear liquid Density at 20° C .....<= 0.985  
Identification.....Positive Assay (GLC).....>= 98 %

Code	Size	Packaging	Notes
489561	25ml	Glass bottle	

For derivatization.

## Bismarck brown R

C<sub>21</sub>H<sub>24</sub>N<sub>8</sub>.5HCl  
Molecular Weight 461,41  
CAS : 8005-78-5  
EEC-N : 232-341-8

 **Warning**  
3.1.O/4; H302-3.1.D/4; H312-3.1.I/4; H332  
P261-P271-P280-P304+P340-P312-P501a

► Bismarck brown R > RS-For microscopy-C.I. 21010

RS

Description .....Brown powder E 1% / 1 cm at 460 nm.....>=250  
Identification.....Positive Loss on drying (110°C) .....<=10 %

Code	Size	Packaging	Notes
431252	25g	Glass bottle	

Dye for bacteriology, histology

## Bismuth standard solution

## ▶ Bismuth standard solution &gt; RS-For analysis according to Ph. Eur. Chap. 4.1.2

RS

Code	Size	Packaging	Notes
615005300	100ml	Bottle	A 100 ppm solution : to dilute according to Ref Ph.Eur 5005300

## ▶ Bismuth standard solution &gt; RS-Standard for ICP-MS

RS

Code	Size	Packaging	Notes
505336	50ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505337	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505338	100ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid

## ▶ Bismuth standard solution &gt; RS-Standard for ICP

RS

Code	Size	Packaging	Notes
503471	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503475	100ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
503473	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503477	500ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

## ▶ Bismuth standard solution &gt; RS-Standard for AAS

RS

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

Code	Size	Packaging	Notes
E497455	100ml	Glass bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
E497451	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid

## ▶ Bismuth standard solution &gt; RS-NORMEX- Concentrated solution for AAS

RS

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

Code	Size	Packaging	Notes
428071	Normex	Glass ampoule	conc. 1.000 ppm Matrix : Nitric acid

## Bismuth

Bi  
Molecular Weight 208,98  
CAS : 7440-69-9  
EEC-N : 231-177-4

## ▶ Bismuth &gt; RPE-For analysis

RPE

Description .....Metallic granules Identification.....Positive Melting point.....~ 272 °C

Code	Size	Packaging	Notes
428064	100g	Glass bottle	

## Bismuth(III) carbonate basic

(BiO)<sub>2</sub>CO<sub>3</sub>  
Molecular Weight 509,97  
CAS : 5892-10-4  
EEC-N : 227-567-9

## ▶ Bismuth(III) carbonate basic &gt; RPE-For analysis

RPE

Description .....Yellowish powder As .....<= 5 ppm Alkaly-alkaline earth .....<= 1.0 %  
Identification.....Positive Cu .....<= 50 ppm Chloride .....<= 0.05 %  
Loss on drying .....<= 1.0 % Pb .....<= 20 ppm Nitrate .....<= 0.4 %  
Ag .....<= 25 ppm Assay (complexometric).....97.6 - 100.7 %


Code	Size	Packaging	Notes
428103	50g	Glass bottle	
428105	250g	Plastic bottle	

## Bismuth(III) nitrate basic

B

4BiNO<sub>3</sub>(OH)<sub>2</sub> 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**  
2.14/2; H272-3.2/2; H315-3.3/2; H319-3.8/3; H335  
P210-P221-P304+P340-P305+P351+P338-P405-P501a

### Bismuth(III) nitrate basic > RPE-For analysis-Reag. Ph. Eur.

RPE

Description.....White powder Chloride .....<=20 ppm Ag.....<=20 ppm Ni .....<=10 ppm  
Identification.....Positive HNO<sub>3</sub>-insoluble matter .....<=50 ppm As.....<=2 ppm Pb .....<=30 ppm  
Ammonium .....<=50 ppm Substances not ppt. H<sub>2</sub>S .....<=0.2 % Cu.....<=10 ppm Zn .....<=20 ppm  
Carbonate.....<=20 ppm Sulphate.....<=50 ppm Fe.....<=10 ppm Assay (complexometric).....79.0 - 82.0 %


Code	Size	Packaging	Notes
428284	100g	Glass bottle	
428286	500g	Glass bottle	

For Dragendorff reagent.

## Bismuth(III) nitrate pentahydrate

Bi(NO<sub>3</sub>)<sub>3</sub>.5H<sub>2</sub>O  
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**  
2.14/2; H272-3.2/2; H315-3.3/2; H319-3.8/3; H335  
P210-P221-P304+P340-P305+P351+P338-P405-P501a

### Bismuth(III) nitrate pentahydrate > RPE-For analysis

RPE

Description.....White crystals HNO<sub>3</sub>-insoluble matter .....<=30 ppm As.....<=1 ppm Pb .....<=20 ppm  
Identification.....Positive Substances not ppt. H<sub>2</sub>S .....<=500 ppm Cu.....<=10 ppm Zn .....<=10 ppm  
Ammonium .....<=50 ppm Sulphate.....<=40 ppm Fe.....<=10 ppm Assay (complexometric).....>=98.5 %  
Chloride .....<=5 ppm Ag .....<=20 ppm Ni .....<=10 ppm

Code	Size	Packaging	Notes
428234	100g	Glass bottle	
428236	500g	Glass bottle	

### Bismuth(III) nitrate pentahydrate > RE-Pure


RE

Description.....White crystals Alkaly-alkaline earth .....<=0.5 % Assay (complexometric).....>=98 %  
Identification.....Positive Sulphate .....<=600 ppm  
Chloride .....<=350 ppm As .....<=10 ppm

Code	Size	Packaging	Notes
324185	250g	Glass bottle	

## Biuret 97%

NH<sub>2</sub>CONHCONH<sub>2</sub>  
Molecular Weight 103,08  
CAS : 108-19-0  
EEC-N : 203-559-0

 **Warning**  
3.2/2; H315-3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

### Biuret 97% > RS-For microscopy

RS

Description.....White crystalline powder Identification.....Positive Water (K.F.).....<= 2 %

Code	Size	Packaging	Notes
428432	25g	Glass bottle	

## Biuret reagent

NH<sub>2</sub>CONHCONH<sub>2</sub>  
Molecular Weight 103,08  
CAS : 108-19-0  
EEC-N : 203-559-0



Warning

3.2/2; H315-3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

B

► Biuret reagent > RS-For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611011601	1l	Bottle	Biuret reagent Ref Ph.Eur 1011601

## Boric acid

H<sub>3</sub>BO<sub>3</sub>  
Molecular Weight 61,83  
CAS : 10043-35-3  
EEC-N : 233-139-2



Danger

3.7/1B; H360FD-A26  
P281-P201-P202-P308+P313-P405-P501a

► Boric acid > RPE-For analysis-ISO-ACS-Reag.Ph.Eur.-Reag.USP

RPE

Description	White crystalline powder	Sulphate	<=100 ppm	Insoluble in methanol	<=50 ppm	Organic substances	Conform
Identification	Positive	Heavy metals (Pb)	<=10 ppm	Non volatile with methanol	<=500 ppm	pH solution 3.3%	3.8 - 4.8
Chloride	<=10 ppm	Ca	<=50 ppm	Appearance of solution	Conform	Loss on drying	<=0.5 %
Phosphate	<=10 ppm	Fe	<=10 ppm	Alcohol solubility	Conform	Assay (acidimetric)	99.5 - 100.5 % s.s.

Code	Size	Packaging	Notes
402766	500g	Plastic bottle	
402767	1kg	Plastic bottle	
402765	10kg	Plastic bottle	
402762	25kg	Drum	
402764	50kg	Fibre drum	

► Boric acid > ERBAPharm-According to pharmacopoeia:Ph.Eur.-FU-Ph.Franc.-DAB-USP

ERBAPharm

Description	White crystalline powder	pH (sol. 3.3%)	3.8 - 4.8	Assay (acidimetric)	99.5 - 100.5 % s.s.
Identification	Positive	Loss (silica gel)	<=0.5 %	Assay (acidimetric)	99.0 - 100.5 % t.q.
Appearance of solution	Conform Ph.Eur.	Sulphate	<=450 ppm	Origin (BSE/TSE)	Synthesis
Alcohol solubility	Conform Ph.Eur.	Fe	<=10 ppm	Residual solvents (CPMP/ICH/283/95)	Conform
Organic substances	Conform Ph.Eur.	Heavy metals (Pb)	<=15 ppm		

Code	Size	Packaging	Notes
302177	1kg	Plastic bottle	
302179	5kg	Plastic bottle	
302178	25kg	Plastic bucket	

► Boric acid > RE-Pure-Flakes

RE

Description	White flakes	Identification	Positive	Assay	>=99 %
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Code	Size	Packaging	Notes
302227	1kg	Plastic bottle	
302229	5kg	Plastic bottle	

## Boric acid 4%

► Boric acid 4% > RS-For agroalimentary analysis

RS

Description	Clear colourless liquid	Assay	3.975 - 4.025 %
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Code	Size	Packaging	Notes
502002	5l	Plastic tank	

According to NF V04-387: H<sub>3</sub>BO<sub>3</sub>: 40 g/l water QSP 1L.

# BOR

## Boric acid 4 % with indicator

B

### Boric acid 4 % with indicator > RS-For agroalimentary analysis

RS

Description .....Clear purple liquid Assay.....3.975 - 4.025 %

Code	Size	Packaging	Notes
502601	5l	Plastic tank	

According to NF V04-211 : H<sub>3</sub>BO<sub>3</sub>: 40 g/l water QSP 1L. Mixed indicator (Methyl red+Bromocresol green) : 10 ml.

## Boric acid solution 3%

### Boric acid solution 3% > RPE-For analysis

RPE

Boric acid content.....2.9 - 3.1 %

Code	Size	Packaging	Notes
PS0563/21	2,5l	Glass bottle	

## Boric acid 1% with indicator

### Boric acid 1% with indicator > RS-For agroalimentary analysis

RS

Description .....Clear purple liquid Assay.....0.993 - 1.007 %

Code	Size	Packaging	Notes
502611	5l	Plastic tank	

According to NF V04-211 : H<sub>3</sub>BO<sub>3</sub>: 10 g/l water QSP 1L. Mixed indicator (Methyl red+Bromocresol green) : 10 ml.

## Boric acid solution 20 g/l with indicator

### Boric acid solution 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	5l	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 buffer pH 10.4

### Boric buffer pH 10.4 > RS-For analysis

RS

Temperature of measurement .....19 - 21 °C pH.....9.9 - 10.9 pH unit

Code	Size	Packaging	Notes
PS0226/29	5l	Plastic tank	
PS0226/41	10l	Plastic tank	

Composition : boric acid 33g/l, potassium chloride 39,7g/l, sodium hydroxide 18,75g/l

## Boron standard solution

B

## ▶ Boron standard solution &gt; RS-Standard for ICP-MS

RS

Code	Size	Packaging	Notes
505321	50ml	Plastic bottle	conc. 1.000 ppm Matrix : Eau
505322	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Eau
505325	100ml	Plastic bottle	conc. 100 ppm Matrix : Eau

## ▶ Boron standard solution &gt; RS-Standard for ICP

RS

Code	Size	Packaging	Notes
503441	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Eau
503445	100ml	Plastic bottle	conc. 10.000 ppm Matrix : Eau
503443	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Eau
503447	500ml	Plastic bottle	conc. 10.000 ppm Matrix : Eau

## ▶ Boron standard solution &gt; RS-Standard for AAS

RS

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

Code	Size	Packaging	Notes
E497465	100ml	Glass bottle	conc. 1.000 ppm Matrix : Eau
E497461	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Eau

## ▶ Boron standard solution &gt; RS-NORMEX- Concentrated solution for AAS

RS

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

Code	Size	Packaging	Notes
429641	Normex	Glass ampoule	conc. 1.000 ppm Matrix : Eau

## Bovine bile purified and dried

## ▶ Bovine bile purified and dried &gt; RE-Pure

RE

Description .....Hazel Green Powder Identification.....Positive

Code	Size	Packaging	Notes
323804	100g	Plastic bottle	
323807	1kg	Plastic bottle	

## Brillant cresyl blue

C<sub>17</sub>H<sub>20</sub>ClN<sub>3</sub>O  
 Molecular Weight 332,8  
 CAS : 81029-05-2  
 EEC-N : 225-203-3

## ▶ Brilliant cresyl blue &gt; RS-For microscopy

RS

Description .....Dark bluish-green powder Identification.....Positive E (1%/1cm) at 622 nm (in ETOH 50%) .....1500 - 1700

Code	Size	Packaging	Notes
428811	10g	Glass bottle	

Dye for cytology and hematology

Product specifications are subject to changes.  
 Please visit our website for updates.

# BRI

## Brilliant green

Synonyms : *Ethyl Green*  
*Malachite Green G*

B

C<sub>27</sub>H<sub>34</sub>N<sub>2</sub>O<sub>4</sub>S  
Molecular Weight 482,64  
CAS : 633-03-4  
EEC-N : 211-190-1



**Warning**

3.1.0/4; H302  
P264-P270-P330-P301+P312-P501a

### Brilliant green > RPE-For analysis-C.I. 42040

RPE

Description .....Green crystalline powder    Loss on drying .....<= 10 %  
Identification.....Positive    Colour change .....yellow green

Code	Size	Packaging	Notes
491152	25g	Glass bottle	

*Dye for microscopy (bacteriology-Botanical-histology). Indicator acid - base (pH 0.1 ÷ 2.6).*

## Bromate standard solution



**Danger**

3.6/1B; H350-A26  
P281-P201-P202-P308+P313-P405-P501a

### Bromate standard solution > RS-Standard for ionic chromatography

RS

Code	Size	Packaging	Notes
503170	50ml	Plastic bottle	conc. 1.000 ppm Matrix : Eau
503171	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Eau
503172	250ml	Plastic bottle	conc. 1.000 ppm Matrix : Eau
503173	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Eau

## Bromide - bromate 0.0167 mol/l



**Danger**

3.6/1B; H350-A26  
P281-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	1l	Bottle	Ref Ph.Eur 3001000

## Bromide standard solution

### Bromide standard solution > RS-Standard for ionic chromatography

RS

Code	Size	Packaging	Notes
503210	50ml	Plastic bottle	conc. 1.000 ppm Matrix : Eau
503211	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Eau
503212	250ml	Plastic bottle	conc. 1.000 ppm Matrix : Eau
503213	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Eau

## Bromine solution

Br<sub>2</sub>  
CAS : 7726-95-6

**Classification transport**

ONU: 1744  
Transport Hazard class: 8  
Packing group I



**Danger**

3.1.1/3; H331-3.2/1A; H314-4.1A/1; H400  
P260-P261-P304+P340-P305+P351+P338-P405-P501a

### Bromine solution > RS-For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611012401	100ml	Bottle	Ref Ph.Eur 1012401



## ▶ Bromine solution &gt; RS-For analysis according to USP


RS

Code	Size	Packaging	Notes
617000141	100ml	Bottle	Brome TS

## ▶ Bromine water

Br<sub>2</sub>  
Molecular Weight 159,82  
CAS : 7726-95-6

**Classification transport**  
ONU: 3289  
Transport Hazard class: 6.1  
Packing group I

 **Danger**  
3.3/1; H318-3.2/2; H315  
P280-P264-P305+P351+P338-P332+P313-P362-P302+P352

## ▶ Bromine water &gt; RS-For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611012409	50ml	Bottle	Ref Ph.Eur 1012402
611012402	100ml	Bottle	Ref Ph.Eur 1012402

Storage: protected from light

## ▶ Bromocresol green

C<sub>21</sub>H<sub>14</sub>Br<sub>4</sub>O<sub>5</sub>S  
Molecular Weight 698,04  
CAS : 76-60-8  
EEC-N : 200-972-8

## ▶ Bromocresol green &gt; RPE-For analysis-ACS

RPE


Description .....Beige powder      Appearance of solution .....Conform      pH range .....3.8 - 5.4  
Identification .....Positive      Colour change .....yellow-blue

Code	Size	Packaging	Notes
491207	1g	Glass bottle	
491201	20kg	Plastic bucket	

Clark indicator series. Complexometric indicator. Dye for microscopy (botanical-histology).

## ▶ Bromocresol green 0.04% hydroalcoholic solution

**Classification transport**  
ONU: 1170  
Transport Hazard class: 3  
Packing group III

 **Warning**  
2.6/3; H226  
P210-P241-P243-P303+P361+P353-P403+P235-P501a

## ▶ Bromocresol green 0.04% hydroalcoholic solution &gt; RPE-For analysis

RPE


Description .....Clear green liquid      Sensitivity(pH 4.0-5.4) .....Conform  
Identification .....Positive      Colour change .....yellow blue

Code	Size	Packaging	Notes
E491255	250ml	Glass bottle	

Clark indicator series. Acid-base indicator (pH 3.8 ÷ 5.4).

## ▶ Bromocresol green solution

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

 **Danger**  
2.6/2; H225  
P210-P241-P243-P303+P361+P353-P403+P235-P501a

## ▶ Bromocresol green solution &gt; RS-For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611012601	100ml	Bottle	Ref Ph.Eur 1012601 / Colour change : pH 3.6 (yellow) to pH 5.2 (blue)

# BRO

## Bromocresol green solution > RS-For analysis according to USP

RS

Code	Size	Packaging	Notes
617000101	100ml	Bottle	Bromocresol green TS

## Bromocresol green - Methyl red solution

### Bromocresol green - Methyl red solution > RS-For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611012602	100ml	Bottle	Ref Ph.Eur 1012602

## Bromocresol purple

C<sub>21</sub>H<sub>16</sub>Br<sub>2</sub>O<sub>5</sub>S  
Molecular Weight 540,24  
CAS : 115-40-2  
EEC-N : 204-087-8



#### Warning

3.2/2; H315-3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

### Bromocresol purple > RPE-For analysis

RPE

Description.....Pink powder      Colour change.....Purple - yellow  
Identification.....Positive      pH range.....5.2 - 6.8

Code	Size	Packaging	Notes
470038	5g	Glass bottle	

Clark indicator series. Acid-base indicator (pH 5.2 ÷ 6.8) Dye for microscopy (histology).

## Bromocresol purple solution 0.4% in ethanol

#### Classification transport

ONU: 1170  
Transport Hazard class: 3  
Packing group III



#### Warning

2.6/3; H226  
P210-P241-P243-P303+P361+P353-P403+P235-P501a

### 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	250ml	Glass bottle	

Clark indicator series. Acid-base indicator (pH 5.2 ÷ 6.8) Dye for microscopy (histology).

## Bromocresol purple solution

#### Classification transport

ONU: 1993  
Transport Hazard class: 3  
Packing group III



#### Warning

2.6/3; H226  
P210-P241-P243-P303+P361+P353-P403+P235-P501a

### Bromocresol purple solution > RS-For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611012701	100ml	Bottle	Ref Ph.Eur 1012701

Colour change : pH 5.2 (yellow) to pH 6.8 (bluish-violet)

**α-Bromonaphthalene**

C<sub>10</sub>H<sub>7</sub>Br  
 Molecular Weight 207,07  
 CAS : 90-11-9  
 EEC-N : 201-965-2

**Warning**

3.1.0/4; H302-3.3/2; H319  
 P280-P305+P351+P338-P330-P337+P313-P301+P312-P501a

B

**α-Bromonaphthalene > RPE-For analysis**

RPE

Description.....Yellow clear liquid Refractive index at 20°C.....1.6562 - 1.6602 Assay (GLC).....>=99 %  
 Identification.....Positive Melting point.....2.0 - 4.0 ° C  
 Density at 20° C.....1.479 - 1.485 Residue on ignition.....<=100 ppm

Code	Size	Packaging	Notes
430652	500ml	Glass bottle	

**Bromophenol blue**

Synonym : 3',3'',5',5'' -Tetrabromophenolsulfonphthalein

C<sub>19</sub>H<sub>10</sub>Br<sub>4</sub>O<sub>5</sub>S  
 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	5g	Glass bottle	
428653	50g	Glass bottle	
428655	500g	Plastic bottle	

Clark indicator series. Dye for microscopy (histology).

**Bromophenol blue solution 0.4% in ethanol****Classification transport**

ONU: 1170  
 Transport Hazard class: 3  
 Packing group III

**Warning**

2.6/3; H226  
 P210-P241-P243-P303+P361+P353-P403+P235-P501a

**Bromophenol blue solution 0.4% in ethanol > RPE-For analysis**

RPE

Description.....Red liquid Colour change.....yellow blue  
 Identification.....Positive pH range.....3.0 - 4.6

Code	Size	Packaging	Notes
E428665	250ml	Glass bottle	

Clark indicator series. Acid-base indicator (pH 3.0 to 4.6) indicator absorbance.

**Bromophenol blue solution 0.02%****Bromophenol blue solution 0.02% > RPE-For analysis**

RPE

Description.....Clear purple liquid Identification.....Positive

Code	Size	Packaging	Notes
428691	100ml	Glass bottle	

Dye for microscopy

# BRO

## Bromophenol blue solution

**B****Bromophenol blue solution > RS-For analysis according to Ph. Eur. Chap. 4.1.1****RS**

Code	Size	Packaging	Notes
611012801	100ml	Bottle	Ref Ph.Eur 1012801/Zone de virage : pH 2.8 (jaune) à pH 4.4 (bleu-violet)
611012802	100ml	Bottle	Bromophenol blue solution R1 Ref Ph.Eur 1012802
611012803	100ml	Bottle	Bromophenol blue solution R2 Ref Ph.Eur 1012803

## Bromothymol blue

Synonym : 3',3''-Dibromothymolsulfonphthalein

C<sub>27</sub>H<sub>28</sub>Br<sub>2</sub>O<sub>5</sub>S  
Molecular Weight 624,39  
CAS : 76-59-5  
EEC-N : 200-971-2

**Warning**

3.1.0/4; H302-3.1.D/4; H312-3.1.I/4; H332  
P261-P271-P280-P304+P340-P312-P501a

**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	5g	Glass bottle	
428703	50g	Glass bottle	

Clark indicator series

## Bromothymol blue 0.4% in ethanol

**Classification transport**

ONU: 1170  
Transport Hazard class: 3  
Packing group III

**Warning**

2.6/3; H226  
P210-P241-P243-P303+P361+P353-P403+P235-P501a

**Bromothymol blue 0.4% in ethanol > RPE-For analysis****RPE**

Description.....Dark green liquid      Colour change.....yellow blue  
Identification.....Positive      pH (Hydralcoholic sol.).....Conform 6.0 7.6

Code	Size	Packaging	Notes
E428715	250ml	Glass bottle	

Clark indicator series

## Bromothymol blue 0.02%

**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	100ml	Glass bottle	

Dye for microscopy

## Bromothymol blue solution

**Bromothymol blue solution > RS-For analysis according to Ph. Eur. Chap. 4.1.1****RS**

Code	Size	Packaging	Notes
611012901	100ml	Bottle	Bromothymol blue solution R1 Ref Ph.Eur 1012901/ Colour change : pH 5.8 (yellow) to pH 7.4 (blue)
611012903	100ml	Bottle	Bromothymol blue solution R3 Ref Ph.Eur 1012903

## Brucine

Synonym : 10,11-Dimethoxystrychnine

C<sub>23</sub>H<sub>26</sub>N<sub>2</sub>O<sub>4</sub>·2H<sub>2</sub>O  
Molecular Weight 430,5  
CAS : 357-57-3  
EEC-N : 206-614-7

**Classification transport**  
ONU: 1570  
Transport Hazard class: 6.1  
Packing group I

**Danger**

3.1.O/2; H300-3.1.I/2; H330-4.1.C/3; H412  
P260-P271-P284-P304+P340-P405-P501a

B

## ▶ Brucine &gt; RPE-For analysis-Reag. Ph. Eur.

RPE

Description .....Ivory-white powder      Loss on drying .....7 - 9 %      Assay (non-aqueous medium).....>= 98.5 % s.s.  
Identification.....Positive      Residue on ignition .....<= 0.1 %  
Melting point .....174 - 179 °C      Specific optical rotation(C=2.5 in CHCl<sub>3</sub>) .....-118 - -128 °

Code	Size	Packaging	Notes
431151	10g	Glass bottle	

## Brucine sulfate

(C<sub>23</sub>H<sub>26</sub>N<sub>2</sub>O<sub>4</sub>)<sub>2</sub>·H<sub>2</sub>SO<sub>4</sub>·nH<sub>2</sub>O  
Molecular Weight 1013,13  
CAS : 4845-99-2  
EEC-N : 225-432-9

**Classification transport**  
ONU: 1544  
Transport Hazard class: 6.1  
Packing group II

**Danger**

3.1.O/2; H300-3.1.I/2; H330-4.1.C/3; H412  
P260-P271-P284-P304+P340-P405-P501a

## ▶ Brucine sulfate &gt; RPE-For analysis-ACS

RPE

Description .....White powder      Appearance of solution .....Conform      Nitrate sensitivity .....Conform  
Identification.....Positive      Loss on drying .....<= 13.0 %      Residue on calcination .....<= 0.1 %

Code	Size	Packaging	Notes
431201	10g	Glass bottle	

## Buffered colored solution, traceable to NIST, ready-to-use

Buffer pH 4 .....83      Buffer pH 9 .....87  
Buffer pH 7 .....85      Buffer pH 10.06 .....88

## Buffered solution, traceable to NIST, ready-to-use

Buffer pH 1 .....81      Buffer pH 5 .....84      Buffer pH 9.22 .....88  
Buffer pH 1.68 .....82      Buffer pH 5.2 .....84      Buffer pH 10 .....88  
Buffer pH 2 .....82      Buffer pH 6 .....85      Buffer pH 11 .....89  
Buffer pH 3 .....82      Buffer pH 6.88 .....85      Buffer pH 12 .....89  
Buffer pH 3.56 .....83      Buffer pH 7 .....85      Buffer pH 13 .....89  
Buffer pH 4 .....83      Buffer pH 8 .....87  
Buffer pH 4.62 .....84      Buffer pH 9 .....87

## Buffer pH 1

## ▶ Buffer pH 1 &gt; RPE-For analysis

RPE

pH .....0.98 - 1.02 pH unit      Temperature of measurement .....19 - 21 °C

Code	Size	Packaging	Notes
486211	500ml	Plastic bottle	

**Composition : Glycolle/ Sodium Chloride/Hydrochloric acid. Traceable to NIST**

## ▶ Buffer pH 1 &gt; RPE-NORMEX -For analysis

RPE

Description .....Clear colourless liquid      Identification.....Positive      pH at 20° C.....0.95 - 1.05

Code	Size	Packaging	Notes
486221	Normex	Plastic ampoule	To dilute to 500 ml

**Composition : Glycolle/ Sodium Chloride/Hydrochloric acid**

# BUF

## Buffer pH 1.68

**B**

▶ Buffer pH 1.68 > RS-For analysis according to Ph. Eur. Chap. 2.2.3

**RS**

Code	Size	Packaging	Notes
612203168	500ml	Bottle	pH 1.68 at 25°C

Composition : Potassium tetraoxalate 0.05 M

▶ Buffer pH 1.68 > RPE-For accurate calibrations

**RPE**

Description .....Clear colourless liquid Identification.....Positive pH at 20° C.....1.66 - 1.70

Code	Size	Packaging	Notes
E486751	500ml	Plastic bottle	

Composition : Potassium oxalate tetra-acid. Traceable to NIST

## Buffer pH 2

▶ Buffer pH 2 > RS-For analysis according to Ph. Eur. Chap. 4.1.3

**RS**

Code	Size	Packaging	Notes
614000200	1l	Bottle	Ref Ph.Eur 4000200

▶ Buffer pH 2 > RPE-For analysis

**RPE**

pH .....1.98 - 2.02 pH unit Temperature of measurement .....19 - 21 °C

Code	Size	Packaging	Notes
486231	500ml	Plastic bottle	

Composition : Citric acid/Hydrochloric acid/Sodium hydroxide. Traceable to NIST

▶ 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	Normex	Plastic ampoule	To dilute to 500 ml

Composition : Citric acid/Hydrochloric acid/Sodium hydroxide

## Buffer pH 3

▶ Buffer pH 3 > RPE-For analysis

**RPE**

pH .....2.98 - 3.02 pH unit Temperature of measurement .....19 - 21 °C

Code	Size	Packaging	Notes
486251	500ml	Plastic bottle	

Composition : Citric acid/Hydrochloric acid/Sodium hydroxide. Traceable to NIST

▶ 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	Normex	Plastic ampoule	To dilute to 500 ml

Composition : Citric acid/Hydrochloric acid/Sodium hydroxide

## Buffer pH 3.5

**Classification transport**  
 ONU: 1789  
 Transport Hazard class: 8  
 Packing group II

 **Warning**  
 3.2/2; H315-3.3/2; H319-3.8/3; H335  
 P261-P271-P304+P340-P305+P351+P338-P405-P501a

► **Buffer pH 3.5 > RS-For analysis according to Ph. Eur. Chap. 4.1.3**

RS

Code	Size	Packaging	Notes
614000601	250ml	Bottle	Ref Ph.Eur 4000600
614000600	1l	Bottle	Ref Ph.Eur 4000600

## Buffer pH 3.56

► **Buffer pH 3.56 > RPE-For accurate calibrations**

RPE

pH .....3.54 - 3.58 pH unit    Temperature of measurement .....19 - 21 °C

Code	Size	Packaging	Notes
486741	500ml	Plastic bottle	

*Composition : Potassium tartrate acide. Traceable to NIST*

## Buffer pH 3.7

► **Buffer pH 3.7 > RS-For analysis according to Ph. Eur. Chap. 4.1.3**

RS

Code	Size	Packaging	Notes
614000900	1l	Bottle	Ref Ph.Eur 4000900

## Buffer pH 4

► **Buffer pH 4 > RS-For analysis according to Ph. Eur. Chap. 2.2.3**

RS

Code	Size	Packaging	Notes
612203401	500ml	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 pH unit    Temperature of measurement .....19 - 21 °C

Code	Size	Packaging	Notes
486271	500ml	Plastic bottle	
486273	1l	Plastic bottle	
486274	5l	Kubidos	
486276	10l	Kubidos	

*Composition : Citric acid/Hydrochloric acid/Sodium hydroxide. Traceable to NIST*

► **Buffer pH 4 > RPE-For analysis - Colored solution**

RPE

pH .....3.98 - 4.02 pH unit    Temperature of measurement .....19 - 21 °C

Code	Size	Packaging	Notes
486761	500ml	Plastic bottle	Color : Red

*Composition : Potassium phthalate acid. Traceable to NIST*

# BUF

## ▶ 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	Normex	Plastic ampoule	To dilute to 500 ml

Composition : Citric acid/Hydrochloric acid/Sodium hydroxide.

## ▶ Buffer pH 4 > RPE-NORMEX -For analysis-Colored solution

RPE

Description .....Red clear liquid Identification.....Positive pH at 20° C.....3.95 - 4.05

Code	Size	Packaging	Notes
486291	Normex	Plastic ampoule	Color : Red. To dilute to 500 ml

Composition : Potassium phtalate acid. Traceable to NIST

## Buffer pH 4.62

## ▶ Buffer pH 4.62 > RPE-For accurate calibrations

RPE

pH .....4.60 - 4.64 pH unit Temperature of measurement .....19 - 21 °C

Code	Size	Packaging	Notes
486841	500ml	Plastic bottle	

Composition : Sodium acetate / Acetic acid. Traceable to NIST

## Buffer pH 5

## ▶ Buffer pH 5 > RS-For analysis

RS

pH .....4.98 - 5.02 pH unit Temperature of measurement .....19 - 21 °C

Code	Size	Packaging	Notes
486311	500ml	Plastic bottle	

Composition : Citric acid/Sodium hydroxide. Traceable to NIST

## ▶ 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	Normex	Plastic ampoule	To dilute to 500 ml

Composition : Citric acid/Sodium hydroxide

## Buffer pH 5.2

## ▶ Buffer pH 5.2 > RS-For analysis

RS

pH .....5.15 - 5.25 pH unit Temperature of measurement .....19 - 21 °C

Code	Size	Packaging	Notes
PS0424/15	1l	Plastic bottle	

Composition : ammonium acetate 235,2g/l, acetic acid 108,4 g/l, deionized water 705,9g/l



▶ **Buffer pH 5.2 > RS-For analysis according to Ph. Eur. Chap. 4.1.3**

RS

Code	Size	Packaging	Notes
614001700	1l	Bottle	Ref Ph.Eur 4001700

## Buffer pH 6

▶ **Buffer pH 6 > RS-For analysis**

RS

pH .....5.98 - 6.02 pH unit    Temperature of measurement .....19 - 21 °C

Code	Size	Packaging	Notes
486331	500ml	Plastic bottle	

*Composition : Citric acid/Sodium hydroxide. Traceable to NIST*

▶ **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	Normex	Plastic ampoule	To dilute to 500 ml

*Composition : Citric acid/Sodium hydroxide*

## Buffer 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	Normex	Plastic ampoule	To dilute to 500 ml

*Composition : Potassium phosphate monobasic/ Sodium hydroxide*

## Buffer pH 6.88

▶ **Buffer pH 6.88 > RS-For analysis according to Ph. Eur. Chap. 2.2.3**

RS

Code	Size	Packaging	Notes
612203687	500ml	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 accurate calibrations**

RPE

pH .....6.86 - 6.90 pH unit    Temperature of measurement .....19 - 21 °C

Code	Size	Packaging	Notes
486871	500ml	Plastic bottle	

*Composition : Potassium phosphate monobasic / sodium phosphate dibasic. Traceable to NIST*

## Buffer pH 7

▶ **Buffer pH 7 > RS-For analysis according to Ph. Eur. Chap. 4.1.3**

RS

Code	Size	Packaging	Notes
614003500	1l	Bottle	Ref Ph.Eur 4003500

# BUF

## ▶ Buffer pH 7 > RPE-For analysis

RPE

pH .....6.98 - 7.02 pH unit    Temperature of measurement .....19 - 21 °C

Code	Size	Packaging	Notes
486451	500ml	Plastic bottle	
486453	1l	Plastic bottle	
486454	5l	Kubidos	
486456	10l	Kubidos	
486455	25l	Plastic tank	

Composition : Potassium phosphate monobasic / sodium phosphate dibasic. Traceable to NIST

## ▶ Buffer pH 7 > RPE-For analysis - Colored solution

RPE

Appearance.....Green clear solution    pH .....6.98 - 7.02 pH unit    Temperature of measurement .....19 - 21 °C

Code	Size	Packaging	Notes
486791	500ml	Plastic bottle	

Composition : Potassium phosphate monobasic/Sodium phosphate dibasic / Color : Green. Traceable to NIST

## ▶ 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	Normex	Plastic ampoule	To dilute to 500 ml

Composition : Potassium phosphate monobasic / sodium phosphate dibasic

## ▶ Buffer pH 7 > RPE-NORMEX -For analysis-Colored solution

RPE

Description.....Yellow clear liquid    Identification.....Positive    pH at 20° C.....6.95 - 7.05

Code	Size	Packaging	Notes
486431	Normex	Plastic ampoule	Color : Yellow. To dilute to 500 ml

Composition : Potassium phosphate monobasic / sodium phosphate dibasic

## Buffer 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	Normex	Plastic ampoule	To dilute to 500 ml

Composition : Potassium phosphate monobasic / sodium hydroxide

## Buffer pH 7.4

## ▶ Buffer pH 7.4 > RS-For analysis according to Ph. Eur. Chap. 2.2.3

RS

Code	Size	Packaging	Notes
612203741	500ml	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	1l	Bottle	Ref Ph.Eur 4004600

B

► 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	Normex	Plastic ampoule	To dilute to 500 ml

Composition : Potassium phosphate monobasic / sodium hydroxide

► Buffer pH 8

► Buffer pH 8 > RPE-For analysis

RPE

pH .....7.98 - 8.02 pH unit Temperature of measurement .....19 - 21 °C

Code	Size	Packaging	Notes
486541	500ml	Plastic bottle	

Composition : Boric acid/Sodium hydroxide/Hydrochloric acid. Traceable to NIST

► 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	Normex	Plastic ampoule	To dilute to 500 ml

Composition : Boric acid/Sodium hydroxide/Hydrochloric acid. Traceable to NIST

► Buffer pH 9

► Buffer pH 9 > RS-For analysis according to Ph. Eur. Chap. 4.1.3

RS

Code	Size	Packaging	Notes
614007000	1l	Bottle	Ref Ph.Eur 4000700

► Buffer pH 9 > RPE-For analysis

RPE

pH .....8.98 - 9.02 pH unit Temperature of measurement .....19 - 21 °C

Code	Size	Packaging	Notes
486591	500ml	Plastic bottle	
486593	1l	Plastic bottle	
486594	5l	Kubidos	

Composition : Boric acid/Sodium hydroxide/Potassium chloride. Traceable to NIST

► Buffer pH 9 > RPE-For analysis - Colored solution

RPE

pH .....8.98 - 9.02 pH unit Temperature of measurement .....19 - 21 °C

Code	Size	Packaging	Notes
PS0427/19	500ml	Plastic bottle	Color : Blue

Composition : Boric acid/Sodium hydroxide/Potassium chloride/Methylene blue. Traceable to NIST

# BUF

## ▶ 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	Normex	Plastic ampoule	To dilute to 500 ml

Composition : Boric acid/Sodium hydroxide/Potassium chloride

## Buffer pH 9.22

## ▶ Buffer pH 9.22 > RS-For analysis according to Ph. Eur. Chap. 2.2.3

RS

Code	Size	Packaging	Notes
612203918	500ml	Bottle	pH 9.18 at 25°C

Composition : Disodium tetraborate 0.01 M

## ▶ Buffer pH 9.22 > RPE-For accurate calibrations

RPE

pH.....9.20 - 9.24 pH unit Temperature of measurement.....19 - 21 °C

Code	Size	Packaging	Notes
486881	500ml	Plastic bottle	

Composition : Sodium tetraborate. Traceable to NIST

## Buffer pH 10

## ▶ Buffer pH 10 > RS For analysis according to AFNOR T90-003 normative

RS

pH.....9 - 11 pH unit Temperature of measurement.....19 - 21 °C

Code	Size	Packaging	Notes
PS0200/15	1l	Plastic bottle	
PS0200/95	5l	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 pH unit Temperature of measurement.....19 - 21 °C

Code	Size	Packaging	Notes
486611	500ml	Plastic bottle	
486613	1l	Plastic bottle	
486615	10l	Kubidos	

Composition : Boric acid/Sodium hydroxide/Potassium chloride. Traceable to NIST

## ▶ 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	Normex	Plastic ampoule	To dilute to 500 ml

Composition : Boric acid/Sodium hydroxide/Potassium chloride

## Buffer pH 10.06

## ▶ Buffer pH 10.06 > RPE-For analysis - Colored solution

RPE

Description.....Blue clear liquid Identification.....Positive pH at 20° C.....10.01 - 10.11

Code	Size	Packaging	Notes
486811	500ml	Plastic bottle	Color : Blue

Composition : Boric acid/Sodium hydroxide/Potassium chloride. Traceable to NIST

▶ Buffer pH 10.06 > RPE-NORMEX -For analysis-Colored solution

RPE

Description.....Blue clear liquid Identification.....Positive pH at 20° C.....10.01 - 10.11

Code	Size	Packaging	Notes
486581	Normex	Plastic ampoule	To dilute to 500 ml / Color : Blue

Composition : Sodium carbonate/Sodium bicarbonate

▶ Buffer pH 11

▶ Buffer pH 11 > RPE-For accurate calibrations

RPE

Appearance.....Clear colourless solution pH .....10.98 - 11.02 pH unit Temperature of measurement .....19 - 21 °C

Code	Size	Packaging	Notes
486771	500ml	Plastic bottle	

Composition : Sodium phosphate dibasic / Sodium hydroxide. Traceable to NIST

▶ 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	Normex	Plastic ampoule	To dilute to 500 ml

Composition : Boric acid/Sodium hydroxide/Potassium chloride

▶ Buffer pH 12

▶ Buffer pH 12 > RPE-For analysis

RPE

pH .....11.95 - 12.05 pH unit Temperature of measurement .....19 - 21 °C

Code	Size	Packaging	Notes
486691	500ml	Plastic bottle	

Composition : Sodium phosphate/Sodium hydroxide. Traceable to NIST

▶ 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	Normex	Plastic ampoule	To dilute to 500 ml

Composition : Sodium phosphate/Sodium hydroxide

▶ Buffer pH 13

▶ Buffer pH 13 > RPE-For analysis

RPE

Clear,colourless solution .....Conform pH .....12.95 - 13.05 pH unit Temperature of measurement .....19 - 21 °C

Code	Size	Packaging	Notes
486701	500ml	Plastic bottle	

Composition : Potassium Chloride/Sodium hydroxide. Traceable to NIST

Product specifications are subject to changes. Please visit our website for updates.

## ► 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	Normex	Plastic ampoule	To dilute to 500 ml

Composition : Potassium Chloride/Sodium hydroxide

## Butanedioic acid ► Succinic acid

## 1,3-Butanediol

CH<sub>2</sub>OHCH<sub>2</sub>CHOHCH<sub>3</sub>  
Molecular Weight 90,12  
CAS : 107-88-0  
EEC-N : 203-529-7

## ► 1,3-Butanediol > RE-Pure

RE

Description .....Yellow clear liquid Density at 20° C.....1.000 - 1.010 Assay (GLC).....>=98 %  
Identification.....Positive Boiling point .....206.0 - 207.0 °C

Code	Size	Packaging	Notes
431302	1l	Glass bottle	

## Butanol-1

CH<sub>3</sub>(CH<sub>2</sub>)<sub>2</sub>CH<sub>2</sub>OH  
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**

3.3/1; H318-2.6/3; H226-3.1.0/4; H302-3.8/3; H335-H336-3.2/2; H315  
P210-P241-P304+P340-P305+P351+P338-P403+P235-P405-P501a

## ► Butanol-1 > RS-For HPLC Isocratic

RS

Description .....Clear colourless liquid Boiling point .....117.0 - 118.0 °C Assay (GLC).....>=99.8 % At 310 nm .....>=98 %  
Identification.....Positive Residue on evaporation .....<=5 ppm **U.V. Transmittance**  
Density at 20° C.....0.809 - 0.811 Water (K.F.).....<=0.1 % At 210 nm .....>=10 %  
Refractive index at 20°C .....1.3972 - 1.4012 Acidity or alkalinity.....<=0.0005 meq/g At 235 nm .....>=80 %

Code	Size	Packaging	Notes
412511000	1l	Glass bottle	

Filtered through 0.2 µm membrane

## ► Butanol-1 > RS-Anhydrous-For analysis

RS

Refractive index at 20°C .....1.397 - 1.401 Non volatile residue .....<= 10 mg/Kg Free acid (as CH<sub>3</sub>COOH) .....<= 20 mg/Kg  
Water content (K.F.).....<= 400 mg/Kg Colour .....<= 10 Hazen Assay (GC).....>= 99.5 %

Code	Size	Packaging	Notes
P0171010	200ml	Bottle with sept	
P0171016	1l	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 .....<=10 APHA Alkalinity (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 Isobutanol.....<= 0.15 % Cd.....<= 0.05 ppm Pb .....<= 0.1 ppm  
Boiling point .....116 - 119 °C 2-Butanol.....<= 0.05 % Co.....<= 0.02 ppm Zn .....<= 0.1 ppm  
Water (K.F.).....<= 0.1 % di-butyl ether.....<= 0.1 % Cr.....<= 0.02 ppm Assay (GLC).....>= 99.5 %  
Residue on evaporation .....<= 10 ppm Butyric aldehyde .....<= 0.02 % Cu.....<= 0.02 ppm

Code	Size	Packaging	Notes
414131	1l	Glass bottle	
414133	2,5l	Glass bottle	
414132	22kg	Metal tank	

## ► Butanol-1 > RE-Pure

Description .....	Clear colourless liquid	Refractive index at 20°C .....	1.397 - 1.401	Acidity .....	<= 0.0008 meq/g
Colour .....	<= 10 APHA	Boiling point .....	116.8 - 118.3 °C	Assay (GLC) .....	>= 99 %
Identification .....	Positive	Water (K.F.) .....	<= 0.1 %		
Density at 20° C .....	0.808 - 0.812	Residue on evaporation .....	<= 50 ppm		

Code	Size	Packaging	Notes
308251	1l	Glass bottle	
528300	5l	Plastic tank	
528301	25l	Metal tank	
308257	22kg	Metal tank	
308259	160kg	Metal drum	

## Butanol-2

 Synonym : *sec-Butyl alcohol*

CH3CHOHCH2CH3  
 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**

2.6/3; H226-3.3/2; H319-3.8/3; H335-H336  
 P210-P241-P304+P340-P305+P351+P338-P403+P235-P405-P501a

## ► 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 %
Colour .....	<= 10 APHA	Refractive index at 20°C .....	1.3944 - 1.3984	Acidity (butiric 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	1l	Glass bottle	
414266	15kg	Metal tank	
414261	160kg	Metal drum	

## tert-Butanol

 Synonyms : *2-Methyl-2-propanol*  
*Trimethyl carbinol*

(CH3)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**

2.6/2; H225-3.1/4; H332-3.3/2; H319-3.8/3; H335  
 P210-P241-P304+P340-P305+P351+P338-P403+P235-P405-P501a

## ► 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	1l	Glass bottle	

## ► tert-Butanol > RPE-For analysis-ACS-Reag.Ph.Eur.-Reag.USB

**RPE**

Description .....	Clear colourless liq. or solid	Alcohol miscibility .....	Conform	Residue on evaporation .....	<= 20 ppm
Colour .....	<= 10 APHA	Boiling point .....	81.7 - 82.7 °C	Acidity .....	<= 0.001 meq/g
Identification (I.R.) .....	Conform	Melting point .....	25 - 26 °C	Assay (GLC) .....	>= 99.5 %
Water solubility .....	Conform	Water (K.F.) .....	<= 0.1 %	Carbonyl compounds (as HCHO) .....	<= 0.01 %

Code	Size	Packaging	Notes
414343	500ml	Plastic bottle	
414341	1l	Glass bottle	
414346	2,5l	Plastic bottle	
414342	25l	Plastic tank	

## ► tert-Butanol > RE-Pure-For synthesis

**RE**

Refractive index at 20°C .....	1.386 - 1.39	Water content (K.F.) .....	<= 800 mg/Kg	Assay (GC) .....	>= 99.5 %
Colour .....	<= 10 Hazen	Non volatile residue .....	<= 20 mg/Kg		

Code	Size	Packaging	Notes
P0190222	5l	Plastic tank	
P0190268	200l	Metal drum	

# BUT

2-Butanone ▶ Ethyl methyl ketone

B

## 2-Butoxy ethanol

Synonym : Ethylene glycol butyl ether

CH<sub>3</sub>(CH<sub>2</sub>)<sub>3</sub>OCH<sub>2</sub>CH<sub>2</sub>OH  
Molecular Weight 118,18  
CAS : 111-76-2  
EEC-N : 203-905-0



**Warning**  
3.1.O/4; H302-3.1.D/4; H312-3.1.I/4; H332-3.2/2; H315-3.3/2; H319  
P261-P271-P280-P304+P340-P305+P351+P338-P501a

### 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	1l	Glass bottle	

### 2-Butoxy ethanol > RE-Pure-For synthesis

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	5l	Plastic tank	

## 2-(2-Butoxyethoxy)ethanol

Synonym : Diethylene glycol monobutyl ether

CH<sub>3</sub>(CH<sub>2</sub>)<sub>3</sub>OCH<sub>2</sub>CH<sub>2</sub>OCH<sub>2</sub>CH<sub>2</sub>OH  
Molecular Weight 162,23  
CAS : 112-34-5  
EEC-N : 203-961-6



**Warning**  
3.3/2; H319  
P280-P264-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 (NH<sub>3</sub>) ..... ≤ 0.85 ppm  
Carbonyl Compounds (CO) ..... ≤ 500 ppm  
Heavy metals (Pb) ..... ≤ 2 ppm  
Peroxides (H<sub>2</sub>O<sub>2</sub>) ..... ≤ 250 ppm  
Residue on ignition ..... ≤ 20 ppm  
Fe ..... ≤ 2 ppm  
Assay (GLC) ..... ≥ 99 %

Code	Size	Packaging	Notes
453881	1l	Glass bottle	
453883	25kg	Metal tank	

### 2-(2-Butoxyethoxy)ethanol > RE-Pure-For synthesis

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	5l	Plastic tank	

## n-Butyl acetate

CH<sub>3</sub>COO(CH<sub>2</sub>)<sub>3</sub>CH<sub>3</sub>  
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**  
2.6/3; H226-3.8/3; H336-EUH066  
P210-P241-P304+P340-P403+P235-P405-P501a

### n-Butyl acetate > RS-Anhydrous-For analysis

RS

Refractive index at 20°C ..... 1.392 - 1.396  
Water content (K.F.) ..... ≤ 100 mg/Kg  
Non volatile residue ..... ≤ 10 mg/Kg  
Colour ..... ≤ 10 Hazen  
Assay (GC) ..... ≥ 99.5 %  
Free acid (as CH<sub>3</sub>COOH) ..... ≤ 50 mg/Kg

Code	Size	Packaging	Notes
P0011016	1l	Glass bottle	
P0011021	2,5l	Glass bottle	



### n-Butyl acetate > RPE-For analysis

Description .....	Clear colourless liquid	Water (K.F.) .....	<=0.1 %	Total silicon .....	<=0.02 ppm	Na .....	<=0.2 ppm
Identification (I.R.) .....	Conform	Butan-1-ol .....	<=0.5 %	Total sulphur .....	<=0.5 ppm	Pb .....	<=0.05 ppm
Ready carbonizable substances .....	Conform	n-Butyl formate .....	<=0.1 %	Ca .....	<=0.2 ppm	Zn .....	<=0.1 ppm
Density at 20° C .....	0.878 - 0.884	Butyl propanoate .....	<=0.1 %	Cu .....	<=0.2 ppm	Assay (GLC) .....	>=99 %
Refractive index at 20°C .....	1.3926 - 1.3976	iso-Butyl acetate .....	<=0.5 %	Fe .....	<=0.1 ppm		
Boiling point .....	126.0 - 127.0 °C	Residue on evaporation .....	<=10 ppm	K .....	<=0.2 ppm		
Acidity or alkalinity .....	<=0.001 meq/g	Total phosphorus .....	<=0.2 ppm	Mg .....	<=0.02 ppm		

Code	Size	Packaging	Notes
431601000	1l	Glass bottle	
431602000	2,5l	Glass bottle	

### n-Butyl acetate > RE-Pure

Description .....	Clear colourless liquid	Refractive index at 20°C .....	1.3911 - 1.3991	Residue on evaporation .....	<=100 ppm
Identification .....	Positive	Boiling point .....	123 - 128 °C	Acidity (acetic acid) .....	<=300 ppm
Density at 20° C .....	0.876 - 0.886	Water (K.F.) .....	<=0.1 %	Assay (GLC) .....	>=99 %

Code	Size	Packaging	Notes
325602	1l	Glass bottle	
325601	2,5l	Glass bottle	
325604	5l	Plastic tank	
325603	24kg	Metal tank	

## n-Butyl chloride

CH<sub>3</sub>(CH<sub>2</sub>)<sub>3</sub>Cl  
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

2.6/2; H225  
P210-P241-P243-P303+P361+P353-P403+P235-P501a

### n-Butyl chloride > RS-For HPLC Isocratic

Clear, colourless liq. appearance .....	Conform	Water content (K.F.) .....	<= 100 mg/Kg	<b>U.V. Transmittance</b>	At 240 nm .....	>= 95 %	
Identification .....	Conform	Free acid (as HCl) .....	<= 10 mg/Kg	At 230 nm .....	>= 65 %	Assay (GC) .....	>= 99.8 %
Colour .....	<= 10 Apha	Non volatile residue .....	<= 10 mg/Kg	At 235 nm .....	>= 90 %		
Refractive index at 20°C .....	1.400 - 1.404			At 250 nm .....	>= 98 %		

Code	Size	Packaging	Notes
431821	1l	Glass bottle	

### n-Butyl chloride > RPE-For analysis

Description .....	Clear colourless liquid	Assay (GLC) .....	>= 99.5 %	Water (K.F.) .....	<= 150 ppm
Identification .....	Positive	Colour .....	<= 10 APHA	Residue on evaporation .....	<= 10 ppm
Refractive index at 20°C .....	1.3981 - 1.4061	1-Butanol .....	<= 0.05 %		

Code	Size	Packaging	Notes
431811	100ml	Glass bottle	
431817	1l	Glass bottle	

## tert-Butyl chloride

Synonym : 2-Chloro-2-methylpropane

(CH<sub>3</sub>)<sub>3</sub>CCl  
Molecular Weight 92,57  
CAS : 507-20-0  
EEC-N : 208-066-4

#### Classification transport

ONU: 1127  
Transport Hazard class: 3  
Packing group II



#### Danger

2.6/2; H225  
P210-P241-P243-P303+P361+P353-P403+P235-P501a

### tert-Butyl chloride > RPE-For analysis

Description .....	Clear colourless liquid	Refractive index at 20°C .....	1.3838 - 1.3858
Identification .....	Positive	Assay (GLC) .....	>=98.5 %

Code	Size	Packaging	Notes
431851	250ml	Glass bottle	
431852	1l	Glass bottle	

# BUT

## Butylhydroxytoluene

B

[(CH3)3C]2C6H2(CH3)OH  
Molecular Weight 220,36  
CAS : 128-37-0  
EEC-N : 204-881-4



### Warning

3.1.O/4; H302-3.2/2; H315-3.3/2; H319  
P280-P305+P351+P338-P330-P332+P313-P337+P313-P501a

### Butylhydroxytoluene > RPE-For analysis

RPE

Description .....White semitransparent crystals Melting point .....69.0 - 71.0 ° C Assay (GLC) .....99 - 100 %  
Identification .....Positive Residue on ignition .....<=0.1 %

Code	Size	Packaging	Notes
432121	25g	Glass bottle	

## tert-Butylmethylether

CH3OC4H9  
Molecular Weight 88,15  
CAS : 1634-04-4  
EEC-N : 216-653-1

### Classification transport

ONU: 2398  
Transport Hazard class: 3  
Packaging group II



### Danger

2.6/2; H225-3.2/2; H315  
P210-P241-P243-P332+P313-P403+P235-P501a

### tert-Butylmethylether > RS-For HPLC Isocratic

RS

Clear, colourless liq. appearance .....Conform U.V. Transmittance At 280 nm .....>= 92 % Non volatile residue .....<= 10 mg/Kg  
Identification .....Conform At 210 nm .....>= 10 % At 300 nm .....>= 98 % Hydrocarbons up to C8 .....<= 0.05 %  
Colour .....<= 10 Apha At 230 nm .....>= 40 % Assay (GC) .....>= 99.8 %  
Water content (K.F.) .....<= 100 mg/Kg At 250 nm .....>= 75 % Methanol + tert-butanol .....<= 0.05 %

Code	Size	Packaging	Notes
432031	1l	Glass bottle	
432032	2,5l	Glass bottle	

### tert-Butylmethylether > RS-For HPLC preparative

RS

Description .....Clear colourless liquid Acidity or alkalinity .....<=0.0002 meq/g U.V. Transmittance at 240 nm .....>=60 %  
Identification .....Positive Water (K.F.) .....<=200 ppm at 270 nm .....>=95 %  
Density at 20° C .....0.730 - 0.750 Residue on evaporation .....<=2 ppm  
Boiling point .....54.8 - 55.8 ° C Assay (GLC) .....>=99.5 %

Code	Size	Packaging	Notes
432022000	2,5l	Glass bottle	

Filtered through 1 µm membrane

### tert-Butylmethylether > RS-PESTIPUR- For pesticide analysis

RS

Refractive index at 20°C .....1.367 - 1.371 Assay (GC) .....>= 99.8 % Retention time trichlorobenzene to mirex  
Water content (K.F.) .....<= 100 mg/Kg Non volatile residue .....<= 5 mg/Kg GC-NPD.Individual peak (Ethylparathion) .....<= 3 ng/l  
Colour .....<= 10 Hazen GC-ECD.Individual peak (Lindane) .....<= 3 ng/l Retention time Atrazin to Coumaphos

Code	Size	Packaging	Notes
432061	1l	Glass bottle	
432062	2,5l	Glass bottle	

### tert-Butylmethylether > RS-SPECTROSOL - For optical spectroscopy

RS

Clear, colourless liq. appearance .....Conform Water content (K.F.) .....<= 100 mg/Kg At 250 nm .....>= 75 % Assay (GC) .....>= 99.8 %  
Identification .....Conform U.V. Transmittance At 280 nm .....>= 92 % Non volatile residue .....<= 10 mg/Kg  
Colour .....<= 10 Apha At 210 nm .....>= 10 % At 300 nm .....>= 98 % Hydrocarbons up to C8 .....<= 0.05 %  
Refractive index at 20°C .....1.367 - 1.371 At 230 nm .....>= 40 % Methanol + tert-butanol .....<= 0.05 %

Code	Size	Packaging	Notes
432001	1l	Glass bottle	

## ▶ tert-Butylmethylether > RS-Anhydrous-For analysis

Refractive index at 20°C .....1.367 - 1.371 Colour .....<= 10 Hazen Hydrocarbons up to C8.....<= 0.05 %  
 Water content (K.F.).....<= 100 mg/Kg Assay (GC).....>= 99.8 %  
 Non volatile residue .....<= 10 mg/Kg Methanol + tert-butanol .....<= 0.05 %

Code	Size	Packaging	Notes
P0921016	1l	Glass bottle	

## ▶ tert-Butylmethylether > RPE-For analysis

Description .....Clear colourless liquid Boiling point .....53 - 56 °C Methyl alcohol.....<=0.1 %  
 Identification.....Positive Water (K.F.) .....<=100 ppm Refractive index at 20°C .....1.368 - 1.370  
 Density at 20° C.....0.730 - 0.750 Peroxides (H2O2).....<=10 ppm Assay (GLC).....>=99.5 %

Code	Size	Packaging	Notes
432011	500ml	Glass bottle	
432013	2,5l	Glass bottle	
432014	5l	Plastic tank	
432015	20kg	Aluminium can	

## ▶ tert-Butylmethylether > RE-Pure

Description .....Clear liquid Boiling point .....54.8 - 55.8 °C Assay (GLC).....>= 99.9 %  
 Density at 20°C.....0.730 - 0.750 Water (K.F.) .....<= 300 ppm Methanol + tert-butanol .....<= 0.1 %  
 Refractive index at 20°C .....1.3635 - 1.3735 Residue on evaporation .....<= 30 ppm


Code	Size	Packaging	Notes
528974	1l	Glass bottle	
528970	5l	Plastic tank	
528971	25l	Metal tank	
528979	200l	Metal drum	

## n-Butyric acid

 Synonym : *Butanoic acid*

CH<sub>3</sub>CH<sub>2</sub>CH<sub>2</sub>COOH  
 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**  
 3.2/1B; H314  
 P260-P280-P304+P340-P305+P351+P338-P405-P501a

## ▶ n-Butyric acid > RPE-For analysis-Reag. Ph. Eur.


Description .....Clear colourless liquid Boiling point .....163.0 - 164.0 °C Sulphate .....<=50 ppm  
 Identification.....Positive Chloride .....<=50 ppm Fe.....<=10 ppm  
 Density at 20° C.....0.953 - 0.957 Heavy metals (Pb).....<=20 ppm Assay (GLC).....>=99 %  
 Refractive index at 20°C .....1.3961 - 1.4021 Residue on ignition .....<=100 ppm

Code	Size	Packaging	Notes
403236	250ml	Glass bottle	

## Cacodylic acid

C<sub>2</sub>H<sub>7</sub>AsO<sub>2</sub>  
 Molecular Weight 137,99  
 CAS : 75-60-5  
 EEC-N : 200-883-4

**Classification transport**  
 ONU: 1572  
 Transport Hazard class: 6.1  
 Packing group II

 **Warning**  
 3.1.0/4; H302  
 P264-P270-P330-P301+P312-P501a

## ▶ Cacodylic acid > RPE-For analysis

Description.....White crystals Identification.....Positive Assay .....>=99 %

Code	Size	Packaging	Notes
403311	25g	Glass bottle	

# CAD

## Cadmium standard solution

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

RS

Code	Size	Packaging	Notes
615000700	100ml	Bottle	A 0.1 % solution Ref Ph.Eur 5000700
615000709	100ml	Bottle	A 10 ppm solution : to dilute according to Ref Ph.Eur 5000701

### Cadmium standard solution > RS-Standard for ICP-MS

RS

Code	Size	Packaging	Notes
505546	50ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505547	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505548	100ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid

### Cadmium standard solution > RS-Standard for ICP

RS

Code	Size	Packaging	Notes
503491	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503495	100ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
503493	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503497	500ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

### Cadmium standard solution > RS-Standard for AAS

RS

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

Code	Size	Packaging	Notes
497475	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
497471	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

### 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	Normex	Plastic ampoule	conc. 1.000 ppm Matrix : Nitric acid

### Cadmium standard solution > RS-Quality control standard solution for AAS (graphite furnace)

RS

Code	Size	Packaging	Notes
504360	50ml	Plastic bottle	conc. 5 +/- 0,5 µg/L Matrix : 2% Nitric acid

## Cadmium, rods

Cd  
Molecular Weight 112,41  
CAS : 7440-43-9  
EEC-N : 231-152-8

**Classification transport**  
ONU: 3077  
Transport Hazard class: 9  
Packing group III



**Danger**

3.1.1/2; H330-3.6/1B; H350-3.9/1; H372-3.5/2; H341-3.7/2; H361fd-4.1.A/1; H400-4.1.C/1; H410-A26  
P260-P271-P284-P304+P340-P405-P501a

### Cadmium, rods > RPE-For analysis

RPE


Description.....Metallic rods Identification.....Positive Assay.....>=99.5 %

Code	Size	Packaging	Notes
432296	1kg	Plastic bottle	

## Cadmium acetate dihydrate

Cd(CH<sub>3</sub>COO)<sub>2</sub>·2H<sub>2</sub>O  
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

 **Warning**  
4.1.A/1; H400-4.1.C/1; H410-3.1.O/4; H302-3.1.D/4; H312-3.1.I/4; H332  
P261-P271-P280-P304+P340-P312-P501a

C

### Cadmium acetate dihydrate > RPE-For analysis-Reag. USP

RPE


Description.....White crystals      Substances not ppt. H<sub>2</sub>S.....<= 0.1 %      Pb.....<= 50 ppm  
Identification.....Positive      Sulphate.....<= 50 ppm      Zn.....<= 500 ppm  
Water-insoluble matter.....<= 0.005 %      Cu.....<= 10 ppm      Assay (complexometric).....>= 97.5 %  
Nitrate.....<= 30 ppm      Fe.....<= 10 ppm

Code	Size	Packaging	Notes
432344	100g	Glass bottle	
432345	250g	Plastic bottle	
432347	1kg	Plastic bottle	

## Cadmium carbonate

CdCO<sub>3</sub>  
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

 **Warning**  
4.1.A/1; H400-4.1.C/1; H410-3.1.O/4; H302-3.1.D/4; H312-3.1.I/4; H332  
P261-P271-P280-P304+P340-P312-P501a

### Cadmium carbonate > RPE-For analysis

RPE


Description.....White powder      HCl-insoluble matter.....<=100 ppm      Pb.....>=100 ppm  
Identification.....Positive      Cu.....<=100 ppm      Assay (complexometric).....97 - 100 %

Code	Size	Packaging	Notes
432444	100g	Glass bottle	
432446	500g	Plastic bottle	

## Cadmium chloride monohydrate

CdCl<sub>2</sub>·H<sub>2</sub>O  
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**  
3.1.O/3; H301-3.6/1A; H350-3.9/1; H372-4.1.A/1; H400-4.1.C/1; H410-3.1.I/4; H332-A26  
P260-P261-P271-P304+P340-P405-P501a

### Cadmium chloride monohydrate > RE-Pure

RE


Description.....White crystals      Sulphate.....<=200 ppm      Pb.....<=50 ppm  
Identification.....Positive      Cu.....<=20 ppm      Zn.....<=200 ppm  
Substances not ppt. H<sub>2</sub>S.....<=0.2 %      Fe.....<=10 ppm      Assay.....>=98 %

Code	Size	Packaging	Notes
325741	100g	Glass bottle	

## Cadmium nitrate tetrahydrate

Cd(NO<sub>3</sub>)<sub>2</sub>·4H<sub>2</sub>O  
Molecular Weight 308,47  
CAS : 10022-68-1  
EEC-N : 233-710-6

**Classification transport**  
ONU: 2570  
Transport Hazard class: 6.1  
Packing group I

 **Warning**  
4.1.A/1; H400-4.1.C/1; H410-3.1.O/4; H302-3.1.D/4; H312-3.1.I/4; H332  
P261-P271-P280-P304+P340-P312-P501a

### Cadmium nitrate tetrahydrate > RPE-For analysis

RPE

Description.....White crystals      Ammonium.....<= 300 ppm      Pb.....<= 50 ppm  
Identification.....Positive      Cu.....<= 30 ppm      Zn.....<= 50 ppm  
Water-insoluble matter.....<= 100 ppm      Fe.....<= 10 ppm      Assay (complexometric).....>= 99 %  
Chloride.....<= 50 ppm      Na.....<= 100 ppm

Code	Size	Packaging	Notes
432644	100g	Glass bottle	

## Cadmium sulfate octahydrate

3CdSO<sub>4</sub>.8H<sub>2</sub>O  
Molecular Weight 769,51  
CAS : 7790-84-3  
EEC-N : 233-331-6

### Classification transport

ONU: 2570  
Transport Hazard class: 6.1  
Packing group III



### Danger

3.1.O/3; H301-3.1.I/2; H330-3.5/1B; H340-3.6/1B; H350-3.7/1B; H360FD-3.9/1; H372-4.1.A/1; H400-4.1.C/1; H410-A26  
P260-P271-P284-P304+P340-P405-P501a

### Cadmium sulfate octahydrate > RPE-For analysis-ACS

RPE

Description .....White crystalline powder Nitrate-nitrite (NO<sub>3</sub>) .....<= 30 ppm K .....<= 100 ppm Assay (complexometric) .....98.0 - 102.0 %  
Identification .....Positive Ca .....<= 50 ppm Na .....<= 200 ppm  
Water-insoluble matter .....<= 50 ppm Cu .....<= 20 ppm Pb .....<= 30 ppm  
Chloride .....<= 10 ppm Fe .....<= 10 ppm Zn .....<= 500 ppm

Code	Size	Packaging	Notes
432744	100g	Glass bottle	

## Caffeine anhydrous

C<sub>8</sub>H<sub>10</sub>O<sub>2</sub>N<sub>4</sub>  
Molecular Weight 194,19  
CAS : 58-08-2  
EEC-N : 200-362-1



### Warning

3.1.O/4; H302  
P264-P270-P330-P301+P312-P501a

### Caffeine anhydrous >

ERBAPharm

#### ERBAPharm-According to pharmacopoeia: Ph.Eur.-USP-FU-Ph.Franc.-BP-DAB

Description .....White crystalline powder Ready carbonizable substances .....Conform USP-NF Sulphate .....<= 500 ppm  
Identification .....Positive Other alkaloids .....Conform USP-NF Impurity (HPLC) .....<= 0.1 %  
Appearance of solution .....Conform Ph.Eur. Melting point .....235 - 239 °C s.s. Assay (non-aqueous medium) .....98.5 - 101.0 % s.s.  
Acidity .....Conform Ph.Eur. Loss on drying .....<= 0.5 % Assay (HPLC) .....98.5 - 101.0 % s.s.  
Related substances .....Conform Ph.Eur. Sulphated ash .....<= 0.1 %  
Organic volatile impurities .....Conform USP-NF Heavy metals (Pb) .....<= 10 ppm

Code	Size	Packaging	Notes
326356	500g	Plastic bottle	

## Calcium standard solution

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

RS

Code	Size	Packaging	Notes
615000801	100ml	Bottle	A 100 ppm solution : to dilute according to Ref Ph.Eur 5000801
615000802	100ml	Bottle	A 100 ppm alcoholic solution : to dilute according to Ph.Eur 5000802
615000803	100ml	Bottle	A 10 ppm solution : to dilute according to Ref Ph.Eur 5000803
615000804	100ml	Bottle	A 100 ppm solution R1: to dilute according to Ref Ph.Eur 5000804
615000809	100ml	Bottle	A 400 ppm solution : to dilute according to Ref Ph.Eur 5000800

### Calcium standard solution > RS-Standard for ICP-MS

RS

Code	Size	Packaging	Notes
505541	50ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505542	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505545	100ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid

### Calcium standard solution > RS-Standard for ICP

RS

Code	Size	Packaging	Notes
503481	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503485	100ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
503483	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503487	500ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

## ► Calcium standard solution > RS-Standard for AAS

RS

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

Code	Size	Packaging	Notes
e497485	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
e497481	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid

## ► 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	Normex	Plastic ampoule	conc. 1.000 ppm Matrix : Nitric acid

## ► Calcium standard solution > RS-Standard for ionic chromatography

RS

Code	Size	Packaging	Notes
503220	50ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503221	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503222	250ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503223	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Water

## ► Calcium acetate monohydrate

Ca(CH<sub>3</sub>COO)<sub>2</sub>·H<sub>2</sub>O  
Molecular Weight 158,17  
CAS : 62-54-4  
EEC-N : 200-540-9



### Warning

3.2/2; H315-3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

## ► Calcium acetate monohydrate > RPE-For analysis

RPE

Description .....White crystalline powder Chloride .....<= 20 ppm Sulphate.....<= 50 ppm Na .....<= 500 ppm  
Identification.....Positive Water insoluble substances .....<= 0.01 % Ba .....<= 30 ppm Sr .....<= 0.1 %  
pH sol. 5% at 25° C .....7.5 - 8.5 Heavy metals (Pb) .....<= 10 ppm Fe.....<= 10 ppm Assay (complexometric) .....>= 99 %  
Loss on drying .....<= 10 % Nitrate .....<= 20 ppm K.....<= 100 ppm

Code	Size	Packaging	Notes
432985	250g	Plastic bottle	
432987	1kg	Plastic bottle	
432982	25kg	Drum	

## ► Calcium acetate monohydrate > ERBAPharm-According to pharmacopoeia: BP

ERBAPharm

Description .....White powder Chloride.....<=330 ppm K .....<=0.1 %  
Identification.....Positive Heavy metals (Pb) .....<=20 ppm Na .....<=0.5 %  
Nitrate .....Conform BP Sulphate .....<=600 ppm Mg .....<=500 ppm  
Ready oxidizable substances.....Conform BP Al.....<=1 ppm Assay (complexometric) .....98.0 - 100.5 % s.s.  
Water (K.F.).....<=7 % As .....<=2 ppm  
Alcalinity.....Conform Ba .....<=50 ppm

Code	Size	Packaging	Notes
326511	1kg	Plastic bottle	
326512	5kg	Plastic bottle	
326513	25kg	Fibre drum	

## ► Calcium acetate monohydrate > RE-Pure

RE

Description .....White powder Water-insoluble matter .....<= 500 ppm As .....<= 2 ppm  
Identification.....Positive Loss on drying .....<= 6 % Fe.....<= 10 ppm  
pH sol. 1% .....7 - 8 Heavy metals (Pb) .....<= 5 ppm Assay .....>= 99 %  
Chloride .....<= 500 ppm Sulphate .....<= 500 ppm

Code	Size	Packaging	Notes
326507	1kg	Plastic bottle	
326503	25kg	Plastic bucket	

Product specifications are subject to changes.  
Please visit our website for updates.

## Calcium carbonate

CaCO<sub>3</sub>  
Molecular Weight 100,09  
CAS : 471-34-1  
EEC-N : 207-439-9



**Danger**

3.3/1; H318-3.8/3; H335-3.2/2; H315  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

### Calcium carbonate > RS-For environmental analysis

RS

Description .....White powder Sulphate.....< 2000 ppm As.....< 4 ppm  
Identification.....Positive Heavy metals (Pb).....< 20 ppm Acid insoluble.....< 0.2 %  
Chloride .....< 200 ppm loss on drying (200°C).....< 0.5 % Assay (complexometric) .....> 98.5 % s.s.

Code	Size	Packaging	Notes
433216	500g	Plastic bottle	

Low content in alkali

### Calcium carbonate > RS-For chromatography

RS

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

Code	Size	Packaging	Notes
433245	250g	Plastic bottle	

### Calcium carbonate > RPE-For analysis-ACS-Reag.Ph.Eur.-Reag.USP

RPE

Description .....White powder Heavy metals (Pb).....<= 10 ppm Assay (complexometric) .....99.0 - 100.5 % s.s.  
Identification.....Positive Ba.....<= 100 ppm Acetic acid insoluble .....<= 0.2 %  
Diluted hydrochloric acid insoluble.....<= 100 ppm Fe.....<= 30 ppm As .....<= 4 ppm  
Ammonium .....<= 30 ppm K .....<= 100 ppm Magnesium and alkali metals .....<= 1.5 %  
Chloride .....<= 10 ppm Mg .....<= 200 ppm Loss on drying .....<= 2.0 %  
Fluoride .....<= 15 ppm Na.....<= 0.1 %  
Sulphate .....<= 100 ppm Sr.....<= 0.1 %

Code	Size	Packaging	Notes
433185	250g	Plastic bottle	
433187	1kg	Plastic bottle	
433183	25kg	Bag	

### Calcium carbonate > ERBAPharm-According to pharmacopoeia: Ph.Eur.-USP

ERBAPharm

Description .....White powder Substances insoluble in hydrochloric acid.....<= 0.2 % Hg.....<= 0.5 ppm  
Identification.....Positive Chloride .....<= 330 ppm Pb .....<= 3 ppm  
Barium .....Conform Ph.Eur. Fluoride .....<= 50 ppm Assay (complexometric) .....98.5 - 100.5 % s.s.  
Organic volatile impurities .....Conform USP-NF Sulphate .....<= 0.25 % Origin (BSE/TSE) .....Synthesis  
Loss on drying .....<= 2.0 % Heavy metals (Pb).....<= 20 ppm Residual solvents (CPMP/ICH/283/95).....Conform  
Magnesium and alkali metals .....<= 1.0 % As .....<= 3 ppm  
Substances insoluble in acetic acid .....<= 0.2 % Fe .....<= 200 ppm

Code	Size	Packaging	Notes
327105	25kg	Bag	

### Calcium carbonate > RE-Pure

RE

Description .....White powder Identification.....Positive Assay (complexometric).....>= 98.0 %

Code	Size	Packaging	Notes
327002	2,5kg	Plastic bottle	
327059	5kg	Plastic bottle	
327003	25kg	Plastic bucket	

## Calcium chloride anhydrous

CaCl<sub>2</sub>  
Molecular Weight 110,99  
CAS : 10043-52-4  
EEC-N : 233-140-8



**Warning**

3.3/2; H319  
P280-P264-P305+P351+P338-P337+P313

### Calcium chloride anhydrous > RS-For microanalysis

RS

Description .....White granules Diameter .....1 - 6 mm  
Identification.....Positive Assay (complexometric).....>=96 %

Code	Size	Packaging	Notes
433535	250g	Plastic bottle	Granular



► Calcium chloride anhydrous > RPE-For analysis

Description .....White powder Water-insoluble matter .....< 0.1 % Fe.....< 50 ppm  
 Identification.....Positive Sulphate.....< 500 ppm Mg.....< 0.1 %  
 Acidity .....< 50 ppm Heavy metals (Pb) .....< 50 ppm Assay (complexometric).....>= 96.0 %  
 Alkalinity .....< 0.3 % Ba .....< 100 ppm

Code	Size	Packaging	Notes
433407	1kg	Plastic bottle	
433405	25kg	Drum	

► Calcium chloride anhydrous > RE-Pure-Powder

RE

Description .....White powder HCl-insoluble matter .....<= 200 ppm Heavy metals (Pb).....<= 20 ppm  
 Identification.....Positive Magnesium and alkali salts .....<= 5.0 % As .....<= 3 ppm  
 Assay (complexometric).....93.0 - 100.5 % Fluoride .....<= 40 ppm Pb .....<= 5 ppm

Code	Size	Packaging	Notes
328257	1kg	Plastic bottle	
328252	25kg	Drum	

► Calcium chloride anhydrous > RE-Pure-Granular

RE

Description .....White granules Diameter .....2 - 5 mm  
 Identification.....Positive Assay (complexometric).....>= 90 %

Code	Size	Packaging	Notes
328757	1kg	Plastic bottle	
328807	1kg	Plastic bottle	
328759	5kg	Plastic bottle	
328809	5kg	Plastic bottle	
328802	25kg	Drum	

Calcium chloride dihydrate

CaCl<sub>2</sub>.2H<sub>2</sub>O  
 Molecular Weight 147,02  
 CAS : 10035-04-8  
 EEC-N : 233-140-8



Warning

3.1.O/4; H302-3.3/2; H319  
 P280-P305+P351+P338-P330-P337+P313-P301+P312-P501a

► Calcium chloride dihydrate > RPE-For analysis-ACS

RPE

Description .....White crystalline powder Heavy metals (Pb) .....<= 5 ppm K .....<= 100 ppm Sr .....<= 0.1 %  
 Identification.....Positive Sulphate.....<= 100 ppm Mg .....<= 50 ppm Ammonium .....<= 50 ppm  
 pH sol. 5% at 25° C .....4.5 - 8.5 Ba .....<= 50 ppm Assay (complexometric).....99.0 - 105.0 % Oxidizing substances .....<= 30 ppm  
 Water-insoluble matter .....<= 100 ppm Fe.....<= 10 ppm Na .....<= 0.02 %

Code	Size	Packaging	Notes
433381	1kg	Plastic bottle	
433382	5kg	Plastic bottle	
433384	25kg	Drum	

► Calcium chloride dihydrate > ERBAPharm-According to pharmacopoeia: Ph.Eur.-USP-FU-Ph.Franc.-BP-DAB

ERBAPharm

Description .....White crystalline powder Organic volatile impurities .....Conform USP-NF Fe.....<= 10 ppm  
 Identification.....Positive pH (1:20) .....4.5 - 9.2 Assay (complexometric).....99.0 - 103.0 %  
 Appearance of solution .....Conform Ph.Eur. Heavy metals (Pb) .....<= 10 ppm Origin (BSE/TSE) .....Synthesis  
 Acidity or alkalinity .....Conform Ph.Eur. Sulphate .....<= 300 ppm Residual solvents (CPMP/ICH/283/95) .....Conform  
 Ba .....Conform Ph.Eur. Mg and alkaline metals .....<= 0.5 %  
 Fe,Al and Phosphate .....Conform USP-NF Al.....<= 1 ppm

Code	Size	Packaging	Notes
327607	1kg	Plastic bottle	
327609	5kg	Plastic bottle	
327603	25kg	Plastic bucket	

Product specifications are subject to changes.  
 Please visit our website for updates.

## Calcium chloride fused

CaCl<sub>2</sub>  
Molecular Weight 110,99  
CAS : 10043-52-4  
EEC-N : 233-140-8



**Warning**  
3.3/2; H319  
P280-P264-P305+P351+P338-P337+P313

### Calcium chloride fused > RE-Pure-Powder

RE

Description.....White irregular pieces Identification.....Positive Assay (complexometric).....>= 95 %

Code	Size	Packaging	Notes
433481	250g	Plastic bottle	
433487	1kg	Plastic bottle	

## Calcium chloride hexahydrate

CaCl<sub>2</sub>.6H<sub>2</sub>O  
Molecular Weight 219,08  
CAS : 7774-34-7  
EEC-N : 233-140-8



**Warning**  
3.1.0/4; H302-3.3/2; H319  
P280-P305+P351+P338-P330-P337+P313-P301+P312-P501a

### Calcium chloride hexahydrate > RPE-For analysis

RPE

Description.....White semitransparent crystals Identification.....Positive  
Oxidizing substances (NO<sub>3</sub>).....<= 30 ppm  
pH sol. 5% at 25° C.....4.5 - 8.5  
Ammonium.....<= 50 ppm  
Phosphate.....<= 10 ppm  
Water ins.ble/ppt NH<sub>4</sub>OH.....<= 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	1kg	Plastic bottle	
433371	5kg	Plastic bottle	
433375	25kg	Bag	

### 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	1kg	Plastic bottle	
327509	5kg	Plastic bottle	

## Calcium chloride 0.025 mol/l (0.05N)

### Calcium chloride 0.025 mol/l (0.05N) >

RS-For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611014604	1l	Plastic bottle	Ref Ph.Eur 1014604

## Calcium chloride 0.01 mol/l (0.02N)

### Calcium chloride 0.01 mol/l (0.02N) >

RS-For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611014602	1l	Plastic bottle	Ref Ph.Eur 1014602

## Calcium chloride solution 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	1l	Glass bottle	

## Calcium chloride solution 73.5 g/l

### Calcium chloride solution 73.5 g/l > RS-For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611014601	1l	Bottle	Ref Ph.Eur 1014601

## Calcium citrate tribasic

Ca<sub>3</sub>(C<sub>6</sub>H<sub>5</sub>O<sub>7</sub>)<sub>2</sub>·4H<sub>2</sub>O  
 Molecular Weight 570,51  
 CAS : 5785-44-4  
 EEC-N : 212-391-7

### Calcium citrate tribasic > RPE-For analysis

RPE

Description.....White powder Chloride .....<= 30 ppm Cu.....<= 10 ppm Pb.....<= 10 ppm  
 Identification.....Positive HCl-insoluble matter .....<= 0.05 % Fe.....<= 20 ppm Assay (complexometric) .....>= 98.0 %  
 As.....<= 3 ppm Heavy metals (Pb) .....<= 20 ppm Mg .....<= 500 ppm  
 Loss on drying at 150°C.....10.0 - 13.3 % Sulphate.....<= 200 ppm Ni.....<= 10 ppm

Code	Size	Packaging	Notes
433325	250g	Plastic bottle	

## Calcium fluoride

CaF<sub>2</sub>  
 Molecular Weight 78,08  
 CAS : 7789-75-5  
 EEC-N : 232-188-7



**Warning**

3.2/2; H315-3.3/2; H319-3.8/3; H335  
 P261-P271-P304+P340-P305+P351+P338-P405-P501a

### Calcium fluoride > RPE-For analysis

RPE

Description.....White powder Chloride.....<= 0.1 % Cr.....<= 5 ppm Mn.....<= 1 ppm  
 Identification.....Positive Sulphate.....<= 50 ppm Cu .....<= 1 ppm Ni.....<= 5 ppm  
 Loss on ignition.....<= 0.5 % Co .....<= 5 ppm Fe.....<= 10 ppm Assay (complexometric) .....>= 98 %

Code	Size	Packaging	Notes
433585	250g	Plastic bottle	
433587	1kg	Plastic bottle	

## Calcium formate

Ca(HCOO)<sub>2</sub>  
 Molecular Weight 130,12  
 CAS : 544-17-2  
 EEC-N : 208-863-7



**Warning**

3.1.O/4; H302-3.3/2; H319  
 P280-P305+P351+P338-P330-P337+P313-P301+P312-P501a

### Calcium formate > RPE-For analysis

RPE

Description.....White crystalline powder Identification.....Positive Assay (non-aqueous medium) .....>= 97.5 %

Code	Size	Packaging	Notes
433637	1kg	Plastic bottle	

## Calcium gluconate

C<sub>12</sub>H<sub>22</sub>CaO<sub>14</sub>.H<sub>2</sub>O  
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.  
Saccharose 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
330609	5kg	Plastic bottle	
330601	25kg	Bag	

## Calcium glutamate

(C<sub>5</sub>H<sub>8</sub>O<sub>4</sub>N)<sub>2</sub>Ca.4H<sub>2</sub>O  
Molecular Weight 332,32

### Calcium glutamate > RE-Pure

**RE**

Description .....White powder  
Identification.....Positive  
Loss on drying .....<=18 %  
Cystine.....<=0.1 %  
Chloride .....<=170 ppm  
Water-insoluble matter .....<=100 ppm  
Heavy metals (Pb) .....<=10 ppm  
Sulphate .....<=250 ppm  
Fe.....<=10 ppm  
Assay (complexometric) .....80 - 82 % Ca an

Code	Size	Packaging	Notes
330807	1kg	Plastic bottle	

## Calcium hydroxide

Ca(OH)<sub>2</sub>  
Molecular Weight 74,09  
CAS : 1305-62-0  
EEC-N : 215-137-3



**Danger**

3.3/1; H318-3.8/3; H335-3.2/2; H315  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

### Calcium hydroxide > RS-For chromatography

**RS**

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

Code	Size	Packaging	Notes
433905	250g	Plastic bottle	

### 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	250g	Plastic bottle	
433877	1kg	Plastic bottle	
433873	25kg	Bag	

### 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 %  
Carbonate .....<= 5.0 %  
Chloride .....<= 330 ppm  
Sulphate .....<= 0.4 %  
As .....<= 4 ppm  
Assay (alkalimetric).....95.0 - 100.5 %

Code	Size	Packaging	Notes
331007	1kg	Plastic bottle	
331003	25kg	Plastic bucket	

► Calcium hydroxide > RE-Pure

Description .....White powder As .....<= 3 ppm Assay (complexometric).....>= 95 %  
 Identification.....Positive Heavy metals (Pb).....<= 20 ppm

Code	Size	Packaging	Notes
326454	1kg	Plastic bottle	
326458	25kg	Plastic bucket	

Calcium lactate

(CH<sub>3</sub>CHOHCOO)<sub>2</sub>Ca.5H<sub>2</sub>O  
 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.

Description .....White crystalline powder Ba.....Conform Ph.Eur. Mg and alkaline metals .....<= 1 %  
 Identification.....Positive Loss on drying .....22.0 - 27.0 % Sulphate .....<= 400 ppm  
 Appearance of solution.....Conform Ph.Eur. Chloride.....<= 200 ppm Fe.....<= 50 ppm  
 Acidity or alkalinity .....Conform Ph.Eur. Heavy metals (Pb).....<= 10 ppm Assay (complexometric).....98.0 - 102.0 % s.s.

Code	Size	Packaging	Notes
331407	1kg	Plastic bottle	

Calcium nitrate tetrahydrate

Ca(NO<sub>3</sub>)<sub>2</sub>.4H<sub>2</sub>O  
 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**  
 2.14/2; H272-3.2/2; H315-3.3/2; H319  
 P210-P221-P280-P305+P351+P338-P332+P313-P501a

► Calcium nitrate tetrahydrate > RPE-For analysis-ACS

Description .....White crystals Chloride .....<= 50 ppm Ba .....<= 50 ppm K .....<= 50 ppm  
 Identification.....Positive Nitrite .....<= 10 ppm Fe.....<= 5 ppm Na .....<= 100 ppm  
 pH sol. 5% at 25° C .....5.0 - 7.0 Sulphate.....<= 20 ppm Assay (complexometric).....99.0 - 103.0 % Sr .....<= 0.05 %  
 Water-insoluble matter .....<= 50 ppm Heavy metals (Pb) .....<= 5 ppm Mg .....<= 0.05 %

Code	Size	Packaging	Notes
433957	1kg	Plastic bottle	
433951	5kg	Plastic bottle	

► Calcium nitrate tetrahydrate > RE-Pure

Description .....White crystals Chloride .....<=500 ppm Fe .....<=100 ppm  
 Identification.....Positive Water-insoluble matter .....<=100 ppm Assay (complexometric).....97 - 100 %  
 pH sol. 5% at 25° C .....4.0 - 7.0 Heavy metals (Pb).....<=50 ppm  
 Ammonium .....<=0.5 % Sulphate .....<=0.1 %

Code	Size	Packaging	Notes
331509	5kg	Plastic bottle	
331501	25kg	Bag	

Calcium oxide, lumps

CaO  
 Molecular Weight 56,08  
 CAS : 1305-78-8  
 EEC-N : 215-138-9

**Danger**  
 3.3/1; H318  
 P280-P305+P351+P338-P310

► Calcium oxide, lumps > RE-Pure

Description .....Whitish lumps Carbonate.....<=5.0 % Fe.....<=0.2 %  
 Identification.....Positive HCl-insoluble matter .....<=0.5 % Assay (alkalimetric).....>=95 %  
 Loss on ignition.....<=5 % As .....<=10 ppm

Code	Size	Packaging	Notes
331557	1kg	Plastic bottle	
331552	25kg	Drum	
331554	50kg	Drum	

# CAL

## Calcium oxide, powder

CaO  
Molecular Weight 56,08  
CAS : 1305-78-8  
EEC-N : 215-138-9



**Danger**  
3.3/1; H318  
P280-P305+P351+P338-P310

### Calcium oxide, powder > RE-Pure

RE

Description ..... White powder      Calcium carbonate..... <=10 %  
Identification..... Positive      Loss on ignition..... <=5 %

Code	Size	Packaging	Notes
331567	1kg	Plastic bottle	
331564	25kg	Plastic bucket	

## Calcium pantothenate

C<sub>18</sub>H<sub>32</sub>O<sub>10</sub>N<sub>2</sub>Ca  
Molecular Weight 476,54  
CAS : 137-08-6  
EEC-N : 205-278-9

### Calcium pantothenate >

ERBAPharm

ERBAPharm-According to pharmacopoeia: Ph.Eur.-FU-Ph.Franc.-DAB-USP

Description ..... White powder      Specific optical rotation on dry..... +25.5 - +27.5 °      N ..... 5.7 - 6.0 % s.s.  
Identification..... Positive      Loss on drying ..... <= 3.0 %      Ca ..... 8.2 - 8.6 % s.s.  
Appearance of solution..... Conform Ph.Eur.      3-Aminopropionic acid..... <= 0.5 %      Assay (protonometric) ..... 98.0 - 101.0 % s.s.  
Organic volatile impurities ..... Conform USP-NF      Chloride ..... <= 200 ppm  
pH sol. 5% at 25° C ..... 6.8 - 8.0      Heavy metals (Pb)..... <= 20 ppm

Code	Size	Packaging	Notes
331602	100g	Plastic bottle	

## Calcium phosphate dibasic dihydrate

Synonym : Calcium hydrogen phosphate dihydrate

CaHPO<sub>4</sub>·2H<sub>2</sub>O  
Molecular Weight 172,09  
CAS : 7789-77-7  
EEC-N : 231-826-1



**Warning**  
3.2/2; H315-3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

### Calcium phosphate dibasic dihydrate >

ERBAPharm

ERBAPharm-According to pharmacopoeia: Ph.Eur.-USP-FU-Ph.Franc.

Description ..... White crystalline powder      Loss on ignition..... 24.5 - 26.5 %      Heavy metals (Pb) ..... <=30 ppm      Assay (complexometric)..... 98.0 - 105.0 %  
Identification..... Positive      Chloride ..... <=0.25 %      Sulphate..... <=0.5 %  
Carbonate..... Conform Ph.Eur.      Fluoride ..... <=50 ppm      As..... <=3 ppm  
Ba..... Conform Ph.Eur.      HCl-insoluble matter ..... <=0.2 %      Fe..... <=400 ppm

Code	Size	Packaging	Notes
330307	1kg	Plastic bottle	
330303	25kg	Plastic bucket	

## Calcium phosphate tribasic

Synonym : tri-Calcium (ortho)phosphate

Ca<sub>3</sub>(PO<sub>4</sub>)<sub>2</sub>  
Molecular Weight 310,18  
CAS : 7758-87-4  
EEC-N : 231-840-8

### Calcium phosphate tribasic > RPE-For analysis

RPE

Description ..... White powder      Heavy metals (Pb) ..... <= 10 ppm      Cu + Zn ..... <= 50 ppm  
Identification..... Positive      As ..... <= 1 ppm      Zn ..... <= 25 ppm  
pH sol 10% ..... 6.5 - 7.5      Pb ..... <= 1 ppm      Assay (P2O5) ..... 40.5 - 42 %  
Loss on ignition..... <= 4 %      Assay (acidimetric) ..... >= 90 %

Code	Size	Packaging	Notes
433774	100g	Plastic bottle	
433776	500g	Plastic bottle	

► **Calcium phosphate tribasic > ERBAPharm-According to pharmacopoeia: Ph.Eur.**

Description .....	White powder	Chloride .....	<= 0.15 %	As .....	<= 4 ppm
Identification .....	Positive	Fluoride .....	<= 75 ppm	Fe .....	<= 400 ppm
HCl-insoluble matter .....	<= 0.2 %	Heavy metals (Pb) .....	<= 30 ppm	Assay (complexometric) .....	35.0 - 40.0 % Ca
Loss on ignition .....	<= 8.0 %	Sulphate .....	<= 0.5 %		

Code	Size	Packaging	Notes
330407	1kg	Plastic bottle	
330409	5kg	Plastic bottle	
330403	25kg	Bag	

**Calcium phosphate monobasic monohydrate**

Synonyms : Calcium dihydrogenphosphate monohydrate  
Calcium bis(dihydrogenphosphate) monohydrate

Ca(H<sub>2</sub>PO<sub>4</sub>)<sub>2</sub>.H<sub>2</sub>O  
Molecular Weight 252,07  
CAS : 7758-23-8  
EEC-N : 231-837-1



**Warning**

3.2/2; H315-3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

► **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	250g	Plastic bottle	

► **Calcium phosphate monobasic monohydrate > RE-Pure**

RE

Description .....	White crystalline powder	Loss on drying .....	<= 17.5 %	As .....	<= 3 ppm
Identification .....	Positive	Heavy metals (Pb) .....	<= 20 ppm	Assay ex phosphorus (gravimetric) .....	>= 99.0 %

Code	Size	Packaging	Notes
330261	1kg	Plastic bottle	

**Calcium propionate**

(CH<sub>3</sub>CH<sub>2</sub>COO)<sub>2</sub>Ca  
Molecular Weight 186,22  
CAS : 4075-81-4  
EEC-N : 223-795-8

► **Calcium propionate > RE-Pure**

RE

Description .....	White crystalline powder	Chloride .....	<= 500 ppm	Fe .....	<= 10 ppm
Identification .....	Positive	Sulphate .....	<= 500 ppm	Assay .....	>= 97.5 % (s.s.)
Water (K.F.) .....	<= 4 %	Heavy metals (Pb) .....	<= 5 ppm		
pH sol. 1% .....	7 - 10	As .....	<= 2 ppm		

Code	Size	Packaging	Notes
363974	1kg	Plastic bottle	
363972	25kg	Drum	

**Calcium stearate**

C<sub>36</sub>H<sub>70</sub>CaO<sub>4</sub>  
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	Heavy metals (Pb) .....	<= 10 ppm	Origin (BSE/TSE) .....	Vegetable
Identification .....	Positive	Organic volatile impurities .....	Conform USP-NF	Residual solvents (CPMP/ICH/283/95) .....	Conform
Loss on drying .....	<= 4.0 %	Assay (complexometric) .....	9.0 - 10.5 % CaO		

Code	Size	Packaging	Notes
332262	2,5kg	Plastic bottle	
332261	10kg	Plastic bucket	
332265	25kg	Fibre drum	

# CAL

## Calcium sulfate dihydrate

CaSO<sub>4</sub>·2H<sub>2</sub>O  
Molecular Weight 172,17  
CAS : 10101-41-4  
EEC-N : 231-900-3

### Calcium sulfate dihydrate > RPE-For analysis-ACS

RPE

Description.....White powder HCl-insoluble matter.....<= 0.02 % K.....<= 50 ppm Assay (complexometric).....98 - 102 %  
Identification.....Positive Heavy metals (Pb).....<= 20 ppm Mg.....<= 0.02 %  
Carbonate.....Conform ACS Nitrate.....Conform ACS Na.....<= 0.02 %  
Chloride.....<= 50 ppm Fe.....<= 10 ppm Sr.....<= 0.05 %

Code	Size	Packaging	Notes
434156	500g	Plastic bottle	
434151	25kg	Bag	

### Calcium sulfate dihydrate > ERBAPharm-According to pharmacopoeia: NF

ERBAPharm

Description.....White crystalline powder Fe.....<=100 ppm Loss on drying.....19.0 - 23.0 %  
Identification.....Positive Heavy metals (Pb).....<=10 ppm Assay.....98.0 - 101.0 %s.s.

Code	Size	Packaging	Notes
331752	5kg	Plastic bottle	
331751	25kg	Bag	

## Calcium sulfate hemihydrate

CaSO<sub>4</sub>·1/2H<sub>2</sub>O  
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	1kg	Plastic bottle	
331762	5kg	Plastic bottle	
331763	25kg	Drum	

## Calcium sulfate hemihydrate solution

### Calcium sulfate hemihydrate solution > RS-For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611015202	100ml	Bottle	Ref Ph.Eur 1015201
611015201	1l	Bottle	Ref Ph.Eur 1015201

## Calcon

C<sub>20</sub>H<sub>13</sub>N<sub>2</sub>NaO<sub>5</sub>S  
Molecular Weight 416,39  
CAS : 2538-85-4  
EEC-N : 219-810-2



Warning

3.2/2; H315-3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

### Calcon > RPE-For analysis-C.I. 15705

RPE

Description.....Deep purple powder Identification.....Positive

Code	Size	Packaging	Notes
434171	25g	Glass bottle	

Complexometric indicator for Al, Fe, Zr.



## Calconcarbonic acid

C<sub>21</sub>H<sub>14</sub>O<sub>7</sub>N<sub>2</sub>S  
Molecular Weight 438,42  
CAS : 3737-95-9  
EEC-N : 223-117-0



**Warning**

3.2/2; H315-3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

C

### Calconcarbonic acid > RPE-For analysis-Reag. Ph. Eur.

RPE

Description ..... Powder dark purple Identification ..... Positive Water ..... <= 10 %

Code	Size	Packaging	Notes
403308	5g	Glass bottle	

## Calmagite

HOC<sub>10</sub>H<sub>5</sub>[N=NC<sub>6</sub>H<sub>3</sub>(OH)CH<sub>3</sub>]SO<sub>3</sub>H  
Molecular Weight 358,37  
CAS : 3147-14-6  
EEC-N : 221-563-0



**Warning**

3.2/2; H315-3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

### Calmagite > RPE-For analysis

RPE

Description ..... Black powder Identification ..... Positive

Code	Size	Packaging	Notes
434181	5g	Glass bottle	

Suitable for the spectrophotometric determination of lanthanide.

## Camphor natural

CH<sub>3</sub>CCOCH<sub>2</sub>CH[C(CH<sub>3</sub>)<sub>2</sub>]CH<sub>2</sub>CH<sub>2</sub>  
Molecular Weight 152,24  
CAS : 464-49-3  
EEC-N : 207-355-2

**Classification transport**  
ONU: 2717  
Transport Hazard class: 4.1  
Packing group III



**Warning**

2.7/2; H228-3.2/2; H315-3.3/2; H319-3.8/3; H335  
P210-P241-P304+P340-P305+P351+P338-P405-P501a

### Camphor natural > ERBAPharm-According to pharmacopoeia : Ph.Eur.-USP-BP

ERBAPharm

Description ..... White crystals Acidity or alkalinity ..... Conform Ph.Eur. Halogenated compounds ..... <=100 ppm  
Identification ..... Positive Similar substances (GLC) ..... Conform Ph.Eur. Non volat.substances ..... <=500 ppm  
Appearance of solution ..... Conform Ph.Eur. Melting point ..... 175 - 179 °C  
Water ..... Conform Ph.Eur. Specific optical rotation ..... +41.0 - +43.0 °

Code	Size	Packaging	Notes
332356	500g	Plastic bottle	

## Camphor synthetic

CH<sub>3</sub>CCOCH<sub>2</sub>CH[C(CH<sub>3</sub>)<sub>2</sub>]CH<sub>2</sub>CH<sub>2</sub>  
Molecular Weight 152,24  
CAS : 21368-68-3  
EEC-N : 244-350-4

**Classification transport**  
ONU: 2717  
Transport Hazard class: 4.1  
Packing group III



**Warning**

2.7/2; H228-3.1.0/4; H302-3.2/2; H315-3.3/2; H319-3.8/3; H335  
P210-P241-P304+P340-P305+P351+P338-P405-P501a

### Camphor synthetic > ERBAPharm-According to pharmacopoeia: Ph.Eur.-USP-FU-Ph.Franc.-BP-DAB

ERBAPharm

Description ..... White crystalline powder Acidity or alkalinity ..... Conform Ph.Eur. Halogenated compounds ..... <=100 ppm  
Identification ..... Positive Related substances ..... Conform Ph.Eur. Non volat.substances ..... <=500 ppm  
Appearance of solution ..... Conform Ph.Eur. Melting point ..... 172 - 180 °C Origin (BSE/TSE) ..... Synthesis  
Water ..... Conform Ph.Eur. Specific optical rotation ..... -0.15 - +0.15 ° Residual solvents (CPMP/ICH/283/95) ..... Conform



Code	Size	Packaging	Notes
332406	500g	Plastic bottle	
332401	5kg	Bag	
332402	25kg	Fibre drum	

# CAM

## D(+)-Camphor

CH3CCOCH2CH[C(CH3)2]CH2CH2  
Molecular Weight 152,24  
CAS : 464-49-3  
EEC-N : 207-355-2

**Classification transport**  
ONU: 2717  
Transport Hazard class: 4.1  
Packing group III

  **Warning**  
2.7/2; H228-3.2/2; H315-3.3/2; H319-3.8/3; H335  
P210-P241-P304+P340-P305+P351+P338-P405-P501a

### D(+)-Camphor > RS-For microanalysis


RS

Description .....White crystalline powder Part. massed Identification.....Positive

Code	Size	Packaging	Notes
434254	100g	Plastic bottle	

## Canada balsam

CAS : 8007-47-4  
EEC-N : 232-362-2

 **Warning**  
2.6/3; H226  
P210-P241-P243-P303+P361+P353-P403+P235-P501a

### Canada balsam > RS-Mounting medium for microscopy

RS

Description .....Pale yellow dense liquid Identification.....Positive



Code	Size	Packaging	Notes
321553	100g	Glass bottle	
321554	250g	Glass bottle	

## n-Caproic acid

Synonym : Hexanoic acid

CH3(CH2)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**  
3.1.D/3; H311-3.2/1B; H314  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

### n-Caproic acid > RPE-For analysis

RPE


Description .....Yellow colourless liquid Refractive index at 20°C .....1.4150 - 1.4180  
Identification.....Positive Assay (GLC).....>=99 %

Code	Size	Packaging	Notes
403473	100ml	Glass bottle	

## n-Caprylic acid

Synonym : Octanoic acid

CH3(CH2)6COOH  
Molecular Weight 144,21  
CAS : 124-07-2  
EEC-N : 204-677-5

 **Danger**  
3.2/1B; H314  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

### n-Caprylic acid > RE-Pure


RE

Description .....Yellow clear liquid Refractive index at 20°C .....1.4268 - 1.4288 Iodine value .....<= 0.5  
Identification.....Positive Acid value .....385 - 393 Assay (GLC).....>= 98.5 %

Code	Size	Packaging	Notes
403421	250ml	Glass bottle	

## Carbolated auramine solution

**Classification transport**  
 ONU: 1992  
 Transport Hazard class: 3  
 Packing group II

 **Danger**  
 2.6/2; H225-3.1.D/3; H311-3.8/1; H370  
 P210-P241-P307+P311-P403+P235-P405-P501a

C

### Carbolated auramine solution > RS-For microscopy

RS


Description.....Yellow clear liquid Identification.....Positive

Code	Size	Packaging	Notes
424601	1l	Glass bottle	

*Dye for bacteriology. Contains phenol and methanol.*

## Carbolated methylene blue hydroalcoholic solution

**Classification transport**  
 ONU: 1993  
 Transport Hazard class: 3  
 Packing group III

 **Warning**  
 2.6/3; H226-3.5/2; H341-3.2/2; H315-3.3/2; H319  
 P210-P241-P305+P351+P338-P403+P235-P405-P501a

### Carbolated methylene blue hydroalcoholic solution > RS-For microscopy

RS


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

Code	Size	Packaging	Notes
428991	100ml	Glass bottle	

*Dye for bacteriology. Water / ethanol mixture (70:30). Contains phenol.*

## Carbolated toluidine blue hydroalcoholic solution

**Classification transport**  
 ONU: 1993  
 Transport Hazard class: 3  
 Packing group III

 **Warning**  
 2.6/3; H226-3.5/2; H341-3.2/2; H315-3.3/2; H319  
 P210-P241-P305+P351+P338-P403+P235-P405-P501a

### Carbolated toluidine blue hydroalcoholic solution > RS-For microscopy

RS


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

Code	Size	Packaging	Notes
429291	100ml	Glass bottle	

*Dye for histology. Ethanol - water (10:90). Contains phenol.*

## Carborundum, granules

CSi  
 Molecular Weight 40,1  
 CAS : 409-21-2  
 EEC-N : 206-991-8

 **Warning**  
 3.2/2; H315-3.3/2; H319-3.8/3; H335  
 P261-P271-P304+P340-P305+P351+P338-P405-P501a

### Carborundum, granules > RPE-For analysis

RPE

Description .....Black granules Chloride.....<=100 ppm HCl solubility .....<=0.5 %  
 Identification.....Positive Heavy metals (Pb).....<=50 ppm Fe .....<=200 ppm  
 Loss on ignition.....<=0.5 % Sulphate.....<=200 ppm

Code	Size	Packaging	Notes
434766	500g	Plastic bottle	

## Carborundum, powder

CSi  
Molecular Weight 40,1  
CAS : 409-21-2  
EEC-N : 206-991-8



### Warning

3.2/2; H315-3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

### Carborundum, powder > RPE-For analysis

RPE

Description .....Black greyish powder      Loss on ignition .....<=0.5 %      Fe.....<=0.5 %  
Identification.....Positive      HCl solubility .....<=1 %

Code	Size	Packaging	Notes
434786	500g	Plastic bottle	

## Carrez reagent potassium salt

CAS : 14459-95-1

### Carrez reagent potassium salt > RS-For agroalimentary analysis

RS

Density at 20°C.....1.056 - 1.062

Code	Size	Packaging	Notes
502711	1l	Plastic bottle	

Composition : according to NF V04-233 :  $K_4Fe(CN)_6 \cdot 3 H_2O$  106g water QSP 1 L

## Carrez reagent zinc salt

CAS : 5970-45-6

### 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	1l	Glass bottle	

Composition: Zinc acetate dihydrate 219 g, acetic acid 30ml, water qsp 1l

## Casein

CAS : 9000-71-9  
EEC-N : 232-555-1

### Casein > RS-For microscopy


RS

Description .....Yellowish powder      Water .....<= 13 %      Ash .....<= 3 % (s.s.)  
Identification.....Positive      Free acid (ac. lactic) .....<= 1 %      Assay (ex nitrogen) .....>= 92 % s.s.

Code	Size	Packaging	Notes
435963	50g	Plastic bottle	

## Castor oil

Molecular Weight 932  
CAS : 8001-79-4  
EEC-N : 232-293-8

 **Warning**  
3.3/2; H319  
P305+P351+P338

C

## ▶ Castor oil &gt; ERBAPharm-According to pharmacopoeia: BP-FU-Ph.Eur.-Ph.Franc.

ERBAPharm


Description.....Slightly yellow, viscous liq.	Hydroxyl value.....>= 160	Oleic acid and isomers.....2.5 - 6.0 %
Appearance.....Clear at 40°C	Peroxide value.....<= 10.0 meq O <sub>2</sub> / Kg	Linoleic acid.....2.5 - 7.0 %
Identification.....Positive	Unsaponifiable matter.....<= 0.8 %	Linolenic acid.....<= 1.0 %
Relative density at 20°C.....about 0.958	Water (K.F.).....<= 0.3 %	Eicosenoic acid.....<= 1.0 %
Refractive index at 20°C.....about 1.479	Composition of fatty acids (GC).....Conform Ph.Eur.	Any other fatty acid.....<= 1.0 %
Optical rotation.....+3.5 - +6.0 °	Palmitic acid.....<= 2.0 %	Origin (BSE/TSE).....Vegetable
Specific absorbance at 270nm.....<= 0.7 AU	Stearic acid.....<= 2.5 %	Residual solvents (CPMP/ICH/283/95).....Conform
Acid value.....<= 1.5 mg KOH / g	Ricinoleic acid.....85.0 - 92.0 %	

Code	Size	Packaging	Notes
356351	1l	Glass bottle	
356352	5l	Aluminium can	
356353	28kg	Metal tank	

## Celestine blue B

C<sub>17</sub>H<sub>18</sub>BrN<sub>3</sub>O<sub>4</sub>  
Molecular Weight 408,2  
CAS : 1562-90-9  
EEC-N : 216-346-2

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

 **Warning**  
3.1.O/4; H302-3.1.D/4; H312-3.1.I/4; H332  
P261-P271-P280-P304+P340-P312-P501a

## ▶ Celestine blue B &gt; RS-For microscopy-C.I. 51050

RS

Description.....Dark green powder Identification.....Positive

Code	Size	Packaging	Notes
428801	25g	Bottle	

*Dye for histology*

## Cellulose, powder

CAS : 9004-34-6  
EEC-N : 232-674-9

## ▶ Cellulose, powder &gt; RS-For chromatography

RS

Description.....Yellowish powder Identification.....Positive

Code	Size	Packaging	Notes
436061	250g	Plastic bottle	

## Cerium standard solution

## ▶ Cerium standard solution &gt; RS-Standard for ICP-MS

RS

Code	Size	Packaging	Notes
505551	50ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505552	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505555	100ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid

## Cerium standard solution > RS-Standard for ICP

RS

Code	Size	Packaging	Notes
503501	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503505	100ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
503503	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503507	500ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

## Cerium (III) nitrate hexahydrate

Ce(NO<sub>3</sub>)<sub>3</sub>·6H<sub>2</sub>O  
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**  
2.14/2; H272  
P210-P221-P280-P220-P370+P378a-P501a

## Cerium (III) nitrate hexahydrate > RE-Pure

RE

Description ..... Colourless crystals Fe<sub>2</sub>O<sub>3</sub> ..... ≤ 15 ppm Assay ..... ≥ 99.4 %  
Identification ..... Positive Na<sub>2</sub>O ..... ≤ 50 ppm  
Sulphate ..... ≤ 200 ppm CaO ..... ≤ 50 ppm

Code	Size	Packaging	Notes
436203	50g	Glass bottle	

## Cerium (IV) sulfate

Ce(SO<sub>4</sub>)<sub>2</sub>·nH<sub>2</sub>O  
Molecular Weight 404  
CAS : 10294-42-5  
EEC-N : 237-029-5



**Warning**  
3.2/2; H315-3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

## Cerium (IV) sulfate > RE-Pure

RE

Description ..... Yellow powder Chloride ..... ≤ 200 ppm Fe ..... ≤ 500 ppm  
Identification ..... Positive Heavy metals (Pb) ..... ≤ 50 ppm Assay (oxidimetric) ..... ≥ 98 % s.s.

Code	Size	Packaging	Notes
436402	25g	Glass bottle	
436404	100g	Glass bottle	

## Cerium (IV) sulfate 0.1 mol/l

**Classification transport**  
ONU: 2796  
Transport Hazard class: 8  
Packing group II



**Danger**  
3.2/1A; H314  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

## Cerium (IV) sulfate 0.1 mol/l > RS-For analysis according to Ph. Eur. Chap. 4.2.2

RS

Code	Size	Packaging	Notes
613001100	1l	Bottle	Ref Ph.Eur 3001100

## Cerium (IV) sulfate 0.1 mol/l > RPE-For analysis

RPE

Description ..... Yellow clear liquid Identification ..... Positive Titration factor ..... 0.998 - 1.002

Code	Size	Packaging	Notes
436426	500ml	Plastic bottle	

33,2 g of Ce(SO<sub>4</sub>)<sub>2</sub>. Volumetric solution ready-to-use : 0,1 N. Content is guaranteed for standardized volumes at 20°C.

Cesium standard solution

Cesium standard solution > RS-Standard for ICP-MS

RS

Code	Size	Packaging	Notes
505571	50ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505572	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505575	100ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid


Cesium standard solution > RS-Standard for ICP

RS

Code	Size	Packaging	Notes
503531	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503535	100ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
503533	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503537	500ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

Cesium carbonate

Cs<sub>2</sub>CO<sub>3</sub>  
 Molecular Weight 325,82  
 CAS : 534-17-8  
 EEC-N : 208-591-9

 **Warning**  
 3.2/2; H315-3.3/2; H319-3.8/3; H335  
 P261-P271-P304+P340-P305+P351+P338-P405-P501a

Cesium carbonate > RPE-For analysis


RPE

Description .....White powder Heavy metals (Pb).....<=500 ppm Fe.....<=50 ppm  
 Identification.....Positive Sulphate.....<=100 ppm Zn.....<=50 ppm  
 Chloride.....<=0.1 % Cd.....<=50 ppm Assay (alkalimetric).....98 - 100 %

Code	Size	Packaging	Notes
436457	1g	Glass bottle	

Cesium chloride

CsCl  
 Molecular Weight 168,36  
 CAS : 7647-17-8  
 EEC-N : 231-600-2

 **Warning**  
 3.1.D/4; H312  
 P280-P312-P363-P302+P352-P322-P501a

Cesium chloride > RPE-For analysis

RPE

Description .....White crystalline powder Ba.....<= 10 ppm K.....<= 30 ppm Rb.....<= 50 ppm  
 Identification.....Positive Ca.....<= 10 ppm Mg.....<= 5 ppm Sr.....<= 10 ppm  
 Sulphate.....<= 25 ppm Cr.....<= 2 ppm Na.....<= 50 ppm Assay (argentimetric).....>= 99 %  
 SiO<sub>2</sub>.....<= 2 ppm Fe.....<= 5 ppm Mn.....<= 5 ppm  
 Al.....<= 1 ppm Li.....<= 1 ppm Pb.....<= 5 ppm

Code	Size	Packaging	Notes
436502	25g	Glass bottle	
436501	50g	Glass bottle	

Cesium chloride 25 g/L solution

Cesium chloride 25 g/L solution > RS-Ionisation standard solution for AAS

RS

Code	Size	Packaging	Notes
504536	500ml	Plastic bottle	25 g/L Matrix : Eau

## Cesium sulfate

Cs<sub>2</sub>SO<sub>4</sub>  
 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	25g	Glass bottle	

## Cetyl alcohol

Synonyms : *Palmityl alcohol*  
*1-Hexadecanol*

CH<sub>3</sub>(CH<sub>2</sub>)<sub>14</sub>CH<sub>2</sub>OH  
 Molecular Weight 242,44  
 CAS : 36653-82-4  
 EEC-N : 253-149-0



**Warning**  
 3.2/2; H315  
 P280-P264-P332+P313-P362-P302+P352-P321

### Cetyl alcohol > RPE-For analysis

RPE

Description .....white crystalline powder or colorless  
 Identification .....Positive  
 Residue on ignition .....<=0.1 %  
 Melting point .....47 - 50 °C  
 Assay (GLC) .....>=95.0 %

Code	Size	Packaging	Notes
414427	1kg	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	1kg	Plastic bottle	
308351	50kg	Bag	

## Charcoal activated

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**  
 2.11/2; H252  
 P280-P235+P410-P420-P407

### Charcoal activated > RS-For chromatography

RS

Description .....Black powder  
 Identification .....Positive  
 Loss on drying .....<= 10 %

Code	Size	Packaging	Notes
434455	250g	Bag	
434454	1kg	Bag	

### Charcoal activated > RS-For microanalysis

RS

Description .....Black fine powder  
 Identification .....Positive


Code	Size	Packaging	Notes
434462	50g	Glass bottle	



## Charcoal decolorizing

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**  
2.11/2; H252  
P280-P235+P410-P420-P407

C

## Charcoal decolorizing &gt; RPE-For analysis

RPE


Description .....Black fine powder    pH .....10 - 11    Ash .....<= 7 %  
Identification.....Positive    Loss on drying .....<= 10 %

Code	Size	Packaging	Notes
434507	1kg	Bag	
434501	20kg	Fibre drum	

## Charcoal vegetable

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**  
2.11/1; H251  
P280-P235+P410-P420-P407

## Charcoal vegetable &gt; RE-Pure

RE

Description .....Black fine powder    Identification.....Positive

Code	Size	Packaging	Notes
332658	2,5kg	Bag	

## Chloral hydrate

## Chloral hydrate &gt; RS-For analysis according to Ph. Eur. Chap. 4.1.1




RS

Code	Size	Packaging	Notes
611017901	100ml	Bottle	Ref Ph.Eur 1017901

## Chloramine T sodium salt

$\text{CH}_3\text{C}_6\text{H}_4\text{SO}_2\text{NCINa}\cdot 3\text{H}_2\text{O}$   
Molecular Weight 227,65  
CAS : 127-65-1  
EEC-N : 204-854-7

**Classification transport**  
ONU: 2923  
Transport Hazard class: 8  
Packing group II

   **Danger**  
3.4.R/1; H334-3.2/1B; H314-3.1.0/4; H302-EUH031  
P260-P304+P340-P305+P351+P338-P342+P311-P405-P501a

## Chloramine T sodium salt &gt; RPE-For analysis

RPE

Description .....White crystalline powder    pH solution 5% .....8.0 - 10.3    Turbidity ( 0.5% in Water) .....<= 5 FTU  
Identification.....Positive    Colour soluzione 5% .....<= 25 APHA    Assay (iodometric) .....>= 97.5 %

Code	Size	Packaging	Notes
437554	100g	Plastic bottle	
437557	1kg	Plastic bottle	
437551	25kg	Fibre drum	


For determination of : Co, Cr, Fe, Hg, Mn, Ni, Sb.

# CHL

## Chloranil

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**  
4.1.A/1; H400-4.1.C/1; H410-3.2/2; H315-3.3/2; H319  
P280-P305+P351+P338-P332+P313-P337+P313-P362-P501a

### Chloranil > RPE-For analysis

RPE

Description ..... Yellow brown powder - green  
Identification ..... Positive  
Melting point ..... 290 - 295 °C  
Residue on ignition ..... <= 0.1 %  
Assay (GLC) ..... >= 99.0 %


Code	Size	Packaging	Notes
437601	50g	Glass bottle	

Reagent for the dehydrogenation of hydroaromatic compounds.

## Chloranilic acid

Synonym : 2,5-Dichloro-3,6-dihydroxy-p-benzoquinone

C<sub>6</sub>H<sub>2</sub>Cl<sub>2</sub>O<sub>4</sub>  
Molecular Weight 208,99  
CAS : 87-88-7  
EEC-N : 201-780-7

 **Warning**  
3.2/2; H315-3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

### 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	10g	Glass bottle	

## Chlorate standard solution

### Chlorate standard solution > RS-Standard for ionic chromatography

RS

Code	Size	Packaging	Notes
503180	50ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503181	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503182	250ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503183	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Water

## Chloride standard solution

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

RS

Code	Size	Packaging	Notes
615000901	100ml	Bottle	A 5 ppm solution : to dilute according to Ref Ph.Eur 5000901
615000909	100ml	Bottle	A 8 ppm solution : to dilute according to Ref Ph.Eur 5000900
615004100	100ml	Bottle	A 50 ppm solution : to dilute according to Ref Ph.Eur 5004100

### Chloride standard solution > RS-Standard for ionic chromatography

RS

Code	Size	Packaging	Notes
503230	50ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503231	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503232	250ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503233	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Water

## Chlorite standard solution

### Chlorite standard solution > RS-Standard for ionic chromatography

RS

Code	Size	Packaging	Notes
503190	50ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503191	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503192	250ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503193	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Water

## Chloroacetamide

CH<sub>2</sub>ClCONH<sub>2</sub>  
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**  
3.1.O/3; H301-3.7/2; H361f-3.4.S/1; H317  
P261-P280-P301+P310-P308+P313-P405-P501a

### Chloroacetamide > RPE-For analysis

RPE

Description .....White crystalline powder Melting point .....116 - 120 °C Assay (GLC).....>= 97.5 %  
Identification.....Positive Water .....<= 0.2 %

Code	Size	Packaging	Notes
437704	100g	Glass bottle	

## Chloroacetic acid

CH<sub>2</sub>ClCOOH  
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**  
3.1.O/4; H301-3.1.D/3; H311-3.1.I/3; H331-3.2/1B; H314-4.1.A/1; H400  
P260-P261-P304+P340-P305+P351+P338-P405-P501a

### Chloroacetic acid > RPE-For analysis-Reag. Ph. Eur.

RPE

Description .....White flakes Melting point .....61 - 63 °C  
Identification.....Positive Assay (acidimetric) .....>=98.5 %

Code	Size	Packaging	Notes
404308	500g	Plastic bottle	

## p-Chlorobenzaldehyde

ClC<sub>6</sub>H<sub>4</sub>CHO  
Molecular Weight 140,57  
CAS : 104-88-1  
EEC-N : 203-247-4

**Classification transport**  
ONU: 1759  
Transport Hazard class: 8  
Packing group II

**Warning**  
3.1.O/4; H302-3.2/2; H315-3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

### p-Chlorobenzaldehyde > RPE-For analysis

RPE

Description .....White crystalline mass Melting point .....46.0 - 48.0 °C Assay (GLC).....99 - 100 %  
Identification.....Positive Residue on ignition .....<=100 ppm


Code	Size	Packaging	Notes
438203	50g	Glass bottle	

# CHL

## Chlorobenzene

C<sub>6</sub>H<sub>5</sub>Cl  
 Molecular Weight 113  
 CAS : 108-90-7  
 EEC-N : 203-628-5

**Classification transport**  
 ONU: 1134  
 Transport Hazard class: 3  
 Packing group III

 **Warning**  
 2.6/3; H226-3.1.1/4; H332-4.1.C/2; H411  
 P210-P241-P243-P304+P340-P403+P235-P501a

### 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	1l	Glass bottle	
438255	2,5l	Glass bottle	
438253	25kg	Glass-polystyrene container	

### 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	1l	Glass bottle	
334255	2,5l	Glass bottle	
528431	5l	Plastic tank	
334254	30kg	Metal tank	

## Chlorobutanol

Synonyms : *Acetone chloroform*  
*Trichloro-2-methyl-2-propanol hemihydrate*

(CH<sub>3</sub>)<sub>2</sub>COH(CCl<sub>3</sub>).1/2H<sub>2</sub>O  
 Molecular Weight 186,5  
 CAS : 6001-64-5  
 EEC-N : 200-317-6

 **Warning**  
 3.1.O/4; H302-3.1.D/4; H312-3.1.I/4; H332-3.2/2; H315-3.3/2; H319  
 P261-P271-P280-P304+P340-P305+P351+P338-P501a

### 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 (CPMP/ICH/283/95) .....Conform

Code	Size	Packaging	Notes
301357	1KG	Plastic bottle	

## Chlorine water

CAS : 7782-50-5

 **Warning**  
 4.1.A/1; H400  
 P273-P391-P501a

### Chlorine water > RPE-For analysis

**RPE**

Description .....Yellow clear liquid  
 Identification .....Positive  
 Assay (ex chloryne) .....0.4 - 0.7 % (p/p)


Code	Size	Packaging	Notes
411981	1l	Glass bottle	

## 2-Chloroethanol

Synonym : Ethylene chlorhydrin

CH<sub>2</sub>OHCH<sub>2</sub>Cl  
Molecular Weight 80,51  
CAS : 107-07-3  
EEC-N : 203-459-7

**Classification transport**  
ONU: 1135  
Transport Hazard class: 6.1  
Packing group I

 **Danger**  
3.1.O/2; H300-3.1.D/1; H310-3.1.I/2; H330-2.6/3; H226  
P210-P241-P302+P350-P304+P340-P403+P235-P405-P501a

C

### 2-Chloroethanol > RPE-For analysis


RPE

Description .....Clear colourless liquid  
Identification.....Positive  
Water miscibility .....Conform  
Alcohol miscibility .....Complete  
Density at 20° C.....1.192 - 1.202  
Refractive index at 20°C .....1.4394 - 1.4444  
Boiling point .....127.3 - 128,8 ° C  
Water (K.F.).....<=0.3 %  
Residue on evaporation .....<=100 ppm  
Acidity (HCl).....<=0.1 %  
Chloride .....<=0.1 %  
Heavy metals (Pb) .....<=2 ppm  
Peroxides (H<sub>2</sub>O<sub>2</sub>).....<=5 ppm  
Fe.....<=2 ppm  
Zn.....<=1 ppm  
Assay (GLO) .....>=99.5 %

Code	Size	Packaging	Notes
453852	1l	Glass bottle	
453854	60kg	Plastic tank	

## 2-Chloroethanol solution

**Classification transport**  
ONU: 1935

 **Warning**  
3.3/2; H319-3.8/3; H336  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

### 2-Chloroethanol solution > RS-For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611097501	100ml	Glass bottle	Ref Ph.Eur 1097501

## 2-Chloroethylamine hydrochloride

ClCH<sub>2</sub>CH<sub>2</sub>NH<sub>2</sub>.HCl  
Molecular Weight 115,99  
CAS : 870-24-6  
EEC-N : 212-793-2

### 2-Chloroethylamine hydrochloride > RE-Pure

RE

Description .....whitish crystalline  
Identification.....Positive  
Assay (argentimetric).....>= 97 %


Code	Size	Packaging	Notes
438371	100g	Plastic bottle	

## Chloroform

Synonym : Trichloromethane

CHCl<sub>3</sub>  
Molecular Weight 119  
CAS : 67-66-3  
EEC-N : 200-663-8

**Classification transport**  
ONU: 1888  
Transport Hazard class: 6.1  
Packing group III

 **Warning**  
3.6/2; H351-3.9/2; H373-3.1.O/4; H302-3.2/2; H315  
P260-P280-P308+P313-P314-P405-P501a

### Chloroform > RS-For HPLC Isocratic-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 chloride.....<= 50 ppm  
Stabilized with amylene.....<= 60 ppm

Code	Size	Packaging	Notes
412571	1l	Glass bottle	
412572	2,5l	Glass bottle	

## Chloroform > RS-For HPLC Isocratic-Stabilized with ethanol

RS

Description ..... Clear colourless liquid Boiling point ..... 61.0 - 61.5 °C Alkalinity ..... <=0.0002 meq/g At 260 nm ..... >=90 %  
 Identification ..... Positive Water (K.F.) ..... <= 100 ppm Assay (GLC) ..... >=99.9 % At 275 nm ..... >=98 %  
 Density at 20° C ..... 1.479 - 1.483 Residue on evaporation ..... <=5 ppm U.V. Transmittance ..... <= 100 ppm ppm  
 Refractive index at 20°C ..... 1.444 - 1.448 Acidity ..... <=0.0005 meq/g At 250 nm ..... >=50 % Methylene chloride ..... <= 50 ppm

Code	Size	Packaging	Notes
412652	1l	Glass bottle	
412653	2,5l	Glass bottle	

## Chloroform > RS-For HPLC preparative-Stabilized with ethanol

RS

Description ..... Clear colourless liquid Water (K.F.) ..... <=500 ppm at 250 nm ..... >=50 %  
 Identification ..... Positive Residue on evaporation ..... <=5 ppm at 275 nm ..... >=98 %  
 Density at 20° C ..... 1.479 - 1.483 Alkalinity ..... <=0.0002 meq/g Stabilized with ethyl alcohol ..... 0.6 - 1.0 %  
 Refractive index at 20°C ..... 1.4456 - 1.4496 Assay (GLC) ..... >=99.0 %  
 Boiling point ..... 61.0 - 61.5 °C U.V. Transmittance

Code	Size	Packaging	Notes
438641	2,5l	Glass bottle	

## Chloroform > RS-ATRASOL- For trace analysis -Stabilized with ethanol

RS

Refractive index at 20°C ..... 1.444 - 1.448 Non volatile residue ..... <= 3 mg/Kg GC-ECD.Individual peak (Lindane) ..... <= 2 ng/l  
 Water content (K.F.) ..... <= 100 mg/Kg GC ( FID ) - NC Atrasol ..... Conform Retention time trichlorobenzene to mirex  
 Colour ..... <= 10 Hazen Carbon tetrachloride ..... <= 100 mg/Kg GC-FID.Individ. peak (hexadecane) ..... <= 5 µg/l  
 Stabilizer (Ethanol) ..... 0.4 - 1 % m/m Assay (GC) ..... >= 99.95 % Retention time range over toluene  
 Dichloromethane ..... <= 100 mg/Kg Free acid (as HCl) ..... <= 5 mg/Kg

Code	Size	Packaging	Notes
P02432E16	1l	Glass bottle	

## Chloroform > RS-PESTIPUR- For pesticide analysis-Stabilized with amylene

RS

Refractive index at 20°C ..... 1.444 - 1.448 Free acid (as HCl) ..... <= 5 mg/Kg Retention time trichlorobenzene to mirex  
 Water content (K.F.) ..... <= 100 mg/Kg Non volatile residue ..... <= 5 mg/Kg GC-NPD.Individual peak (Ethylparathion) ..... <= 3 ng/l  
 Colour ..... <= 10 Hazen Assay (GC) ..... >= 99.9 % Retention time Atrazin to Coumaphos  
 Stabilizer (Amylene) ..... 10 - 50 mg/Kg GC-ECD.Individual peak (Lindane) ..... <= 3 ng/l

Code	Size	Packaging	Notes
438682	2,5l	Glass bottle	

## Chloroform > RS-PESTIPUR- For pesticide analysis-Stabilized with ethanol

RS

Description ..... Clear liquid Water ..... <= 0.01 % GC-ECD (Lindane) ..... <= 3 ng/l  
 Identification ..... Positive Acidity (HCl) ..... <= 5 ppm GC-NPD (Ethylparathion) ..... <= 3 ng/l  
 Not volatile residue ..... <= 5 ppm Assay (GLC) ..... >= 99.9 %

Code	Size	Packaging	Notes
438651	1l	Glass bottle	
438652	2,5l	Glass bottle	

## Chloroform > RS-SPECTROSOL-For optical spectroscopy - Stabilized with amylene

RS

Clear,colourless liq.appearance ..... Conform Water content (K.F.) ..... <= 100 mg/Kg Carbon tetrachloride ..... <= 100 mg/Kg At 260 nm ..... >= 85 %  
 Identification ..... Conform Free acid (as HCl) ..... <= 5 mg/Kg Dichloromethane ..... <= 100 mg/Kg At 280 nm ..... >= 95 %  
 Colour ..... <= 10 Apha Non volatile residue ..... <= 5 mg/Kg U.V. Transmittance ..... >= 99.9 %  
 Refractive index at 20°C ..... 1.4441 - 1.448 Stabilizer (Amylene) ..... 10 - 50 mg/Kg At 250 nm ..... >= 50 %

Code	Size	Packaging	Notes
438591	1l	Glass bottle	

## Chloroform > RS-SPECTROSOL-For optical spectroscopy - Stabilized with ethanol

RS

Description ..... Clear liquid Residue on evaporation ..... <=5 ppm U.V. Transmittance  
 Colour ..... <=10 APHA Acidity (HCl) ..... <=0.0005 meq/g at 245 nm ..... >=15 %  
 Identification ..... Positive Alkalinity ..... <=0.0002 meq/g at 250 nm ..... >=50 %  
 Density at 20° C ..... 1.479 - 1.483 Assay (GLC) ..... >=99.9 % at 260 nm ..... >=90 %  
 Refractive index at 20°C ..... 1.4461 - 1.4491 Fluorescence at 275 nm ..... >=98 %  
 Boiling point ..... 61.0 - 61.5 °C at 254 nm ..... <=2 ppb Stabilized with ethyl alcohol ..... 0.6 - 1.0 %  
 Water (K.F.) ..... <=100 ppm at 365 nm ..... <=2 ppb Carbon tetrachloride ..... <= 100 ppm

Code	Size	Packaging	Notes
438664	1l	Glass bottle	
438662	2,5l	Glass bottle	

► Chloroform > RS-Anhydrous-For analysis-Stabilized with amylene

Refractive index at 20°C .....1.444 - 1.448	Free acid (as HCl) .....<= 5 mg/Kg	Dichloromethane .....<= 50 mg/Kg
Water content (K.F.) .....<= 50 mg/Kg	Assay (GC) .....>= 99.95 %	1,2-dichloroethane .....<= 10 mg/Kg
Non volatile residue .....<= 10 mg/Kg	Stabilizer (Amylene) .....10 - 50 mg/Kg	
Colour .....<= 10 Hazen	Carbon tetrachloride.....<= 80 mg/Kg	

Code	Size	Packaging	Notes
P02410A10	200ml	Bottle with sept	
P02410A16	1l	Glass bottle	
P02410A21	2,5l	Glass bottle	
P02410AT21	2,5l	Glass bottle	On molecular sieves

► Chloroform > RS-Anhydrous-For analysis-Stabilized with ethanol

Refractive index at 20°C .....1.444 - 1.448	Assay (GC) (without stabilizer).....>= 99.95 %	Dichloromethane .....<= 100 mg/Kg
Water content (K.F.) .....<= 50 mg/Kg	Stabilizer (Ethanol) .....0.6 - 1 % m/m	1,2-dichloroethane .....<= 10 mg/Kg
Non volatile residue .....<= 10 mg/Kg	Free acid (as HCl) .....<= 5 mg/Kg	
Colour .....<= 10 Hazen	Carbon tetrachloride.....<= 80 mg/Kg	

Code	Size	Packaging	Notes
P02410E10	200ml	Bottle with sept	
P02410E16	1l	Glass bottle	
P02410E21	2,5l	Glass bottle	

► Chloroform > RS-For colorimetry with dithizone-Stabilized with ethanol

Description .....Clear liquid	Ready carbonizable substances .....Conform	Boiling point .....61.0 - 61.5 °C	Carbonyl Compounds (CO) .....<=5 ppm
Colour .....<=10 APHA	Alcohol miscibility .....Complete	Water (K.F.) .....<=300 ppm	Cu .....<=0.01 ppm
Identification (I.R.) .....Conform	Benzene miscibility .....Complete	Residue on evaporation .....<=5 ppm	Fe .....<=0.1 ppm
Free chlorine .....Conform	Diethyl ether miscib. ....Complete	Acidity (HCl) .....<=5 ppm	Pb .....<=0.01 ppm
Phosgene .....Conform	Density at 20° C .....1.479 - 1.483	Ethyl alcohol .....<=0.75 %	Zn .....<=0.05 ppm
Suitable for Dithizone col.....Conform	Refractive index at 20°C .....1.4461 - 1.4491	Chloride .....<=0.4 ppm	Assay (GLC) .....>=99 %

Code	Size	Packaging	Notes
438676	500ml	Glass bottle	

► Chloroform > RS-Standard for refractometry-Stabilized with ethanol

Description .....Clear colourless liquid	Density at 20° C .....~ 1.489	Stabilized with ethyl alcohol .....0.6 - 1.0 %
Identification.....Positive	Refractive index at 20°C.....~ 1.443	

Code	Size	Packaging	Notes
438624	1l	Glass bottle	

► Chloroform > RPE-For analysis-ISO-ACS-Reag.Ph.Eur.-Reag.USP-Stabilized with ethanol

Description .....Clear liquid	Acidity and chloride .....Conform ACS	Residue on evaporation .....<=5 ppm	Cu .....<=0.01 ppm
Colour .....<=10 APHA	Suitable for Dithizone col. ....Conform ACS	Acidity (HCl) .....<=5 ppm	Fe .....<=0.1 ppm
Identification (I.R.) .....Conform	Density at 20° C .....1.477 - 1.481	Ethyl alcohol .....0.6 - 1 %	Pb .....<=0.01 ppm
Phosgene .....Conform	Refractive index at 20°C .....1.4461 - 1.4491	Chloride .....<=0.4 ppm	Zn .....<=0.05 ppm
Ready carbonizable substances .....Conform	Boiling point .....60.5 - 61.5 °C	Free chlorine .....<=0.1 ppm	Assay (GLC) .....>=99.9 %
Acetone and aldehydes .....Conform ACS	Water (K.F.) .....<=100 ppm	Carbonyl Compounds (CO) .....<=5 ppm	

Code	Size	Packaging	Notes
438613	1l	Glass bottle	
438614	2,5l	Glass bottle	
438612	5l	Plastic tank	

► Chloroform > RPE-For analysis-ISO-Stabilized with ethanol

Description .....Clear liquid	Alcohol miscibility .....Complete	Water (K.F.) .....<=300 ppm	Cu .....<=0.01 ppm
Colour .....<=10 APHA	Benzene miscibility .....Complete	Residue on evaporation .....<=5 ppm	Fe .....<=0.1 ppm
Identification (I.R.) .....Conform	Diethyl ether miscib. ....Complete	Acidity (HCl) .....<=5 ppm	Pb .....<=0.01 ppm
Free chlorine .....Conform	Density at 20° C .....1.479 - 1.483	Ethyl alcohol .....0.6 - 1 %	Zn .....<=0.05 ppm
Phosgene .....Conform	Refractive index at 20°C .....1.4461 - 1.4491	Chloride .....<=0.4 ppm	Assay (GLC) .....>=99 %
Ready carbonizable substances .....Conform	Boiling point .....61.0 - 61.5 °C	Carbonyl Compounds (CO) .....<=5 ppm	

Code	Size	Packaging	Notes
438601	1l	Glass bottle	
438603	2,5l	Glass bottle	
438605	5l	Plastic tank	
438607	35kg	Aluminium can	
438606	250kg	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	1l	Glass bottle	
438582	2,5l	Glass bottle	
438583	5l	Plastic tank	

## ▶ 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  
 Boiling point .....60 - 62 ° C  
 Related compounds.....<=1.0 %  
 Residue on evaporation.....<=40 ppm p/v  
 Ethanol .....1.0 - 2.0 % (v/v)  
 Origin (BSE/TSE).....Synthesis

Code	Size	Packaging	Notes
334351	1l	Glass bottle	
334353	2,5l	Glass bottle	
529301	200l	Metal drum	
334355	40kg	Metal tank	
334354	250kg	Metal drum	

## ▶ Chloroform > RE-Pure- Stabilized with amylene

RE

Description.....Clear colourless liquid  
 Colour.....<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).....<50 ppm  
 Residue on evaporation.....<=20 ppm  
 Water (K.F.).....<= 300 ppm  
 Assay (GLC).....>= 99.9 %  
 Amylene.....<= 60 ppm

Code	Size	Packaging	Notes
528326	1l	Glass bottle	
528328	2,5l	Glass bottle	
528325	5l	Plastic tank	
528329	25l	Metal tank	
528327	200l	Metal drum	

## ▶ Chloroform > RE-Pure-Stabilized with ethanol

RE

Description.....Clear colourless liquid  
 Colour.....<= 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	1l	Glass bottle	
508321	5l	Plastic tank	
508322	200l	Metal drum	

## Chloroform-d

CDCl<sub>3</sub>  
 Molecular Weight 120,37  
 CAS : 865-49-6  
 EEC-N : 212-742-4

**Classification transport**  
 ONU: 1888  
 Transport Hazard class: 6.1  
 Packing group III



**Warning**  
 3.6/2; H351-3.9/2; H373-3.1.0/4; H302-3.2/2; H315  
 P260-P280-P308+P313-P314-P405-P501a

## ▶ Chloroform-d > RS-For NMR-min 99.8%

RS

Code	Size	Packaging	Notes
P5119	10x0,75ml	Glass ampoule	
P5115	25ml	Glass bottle	
P5116	100ml	Glass bottle	
P5117	500ml	Glass bottle	
P5118	1l	Glass bottle	



## ▶ Chloroform-d &gt; RS-For NMR-min 99.8%-Stabilized with 0.12% Ag

RS

Code	Size	Packaging	Notes
P5325	100ml	Glass bottle	

## ▶ Chloroform-d &gt; RS-For NMR-min 99.95%

RS

Code	Size	Packaging	Notes
P5130	10x0,6ml	Glass ampoule	
P5139	10x0,75ml	Glass ampoule	
P5135	25ml	Glass bottle	

## ▶ Chloroform-d &gt; RS-For NMR-min 99.95%-Stabilized with 0.12% Ag


RS

Code	Size	Packaging	Notes
P5505	100ml	Glass bottle	

## Chloroform-d + 0,03% TMS

CDCl<sub>3</sub>  
Molecular Weight 120,37  
CAS : 865-49-6  
EEC-N : 212-742-4

**Classification transport**  
ONU: 1888  
Transport Hazard class: 6.1  
Packing group III

 **Warning**  
3.6/2; H351-3.9/2; H373-3.1.O/4; H302-3.2/2; H315  
P260-P280-P308+P313-P314-P405-P501a

## ▶ Chloroform-d + 0,03% TMS &gt; RS-For NMR-min 99.8%


RS

Code	Size	Packaging	Notes
P5006	100ml	Glass bottle	

## 2-Chlorophenol

C<sub>6</sub>H<sub>4</sub>OH  
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**  
3.1.O/4; H302-3.1.D/4; H312-3.1.I/4; H332-4.1.C/2; H411  
P261-P271-P280-P304+P340-P312-P501a

## ▶ 2-Chlorophenol &gt; RE-Pure

RE


Description .....	Clear colourless liquid	Refractive index at 20°C .....	1.5540 - 1.5600	Water (K.F.) .....	<= 0.1 %
Identification .....	Positive	Boiling point .....	175.0 - 176.0 °C	Residue on ignition .....	<= 100 ppm
Density at 20° C .....	1.259 - 1.265	Melting point .....	8.2 - 9.2 °C	Assay (GLC) .....	99 - 100 %

Code	Size	Packaging	Notes
438451	1l	Glass bottle	

## 4-Chlorophenol

C<sub>6</sub>H<sub>4</sub>OH  
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**  
3.1.O/4; H302-3.1.D/4; H312-3.1.I/4; H332-4.1.C/2; H411  
P261-P271-P280-P304+P340-P312-P501a

## ▶ 4-Chlorophenol &gt; RPE-For analysis-Reag. Ph. Eur.

RPE

Description .....	Yellowish crystals	Water .....	<= 0.3 %
Identification .....	Positive	Assay (GLO) .....	>= 99 %

Code	Size	Packaging	Notes
438504	100g	Glass bottle	
438507	1kg	Glass bottle	

# CHL

## Chlorophenol red solution 0.4% in ethanol

C<sub>19</sub>H<sub>12</sub>Cl<sub>2</sub>O<sub>5</sub>S  
CAS : 4430-20-0

**Classification transport**  
ONU: 1170  
Transport Hazard class: 3  
Packing group III



**Warning**  
2.6/3; H226  
P210-P241-P243-P303+P361+P353-P403+P235-P501a

### Chlorophenol red solution 0.4% in ethanol > RPE-For analysis

RPE

Description .....Red clear liquid Identification.....Positive pH range.....5.0 - 6.6

Code	Size	Packaging	Notes
E476724	100ml	Glass bottle	

Indicator series Clark indicator acid-base (pH 4.6 to 7.0).

## Chlorophyll

CAS : 1406-65-1

### Chlorophyll > RPE-For analysis

RPE

Description .....Black-greenish mass Chlorophyll alfa.....3 - 6 Total chlorophyll.....3.4 - 6.8  
Identification.....Positive Chlorophyll beta.....0.4 - 0.8

Code	Size	Packaging	Notes
438573	50g	Glass bottle	
438577	1kg	Bag	
438579	5kg	Bag	

Soluble in oils and fats

## 3-Chloro-1,2-propanediol

Synonyms :  $\alpha$ -Glycerol chlorohydrin  
 $\alpha$ -Chlorohydrin

CH<sub>2</sub>ClCHOHCH<sub>2</sub>OH  
Molecular Weight 110,54  
CAS : 96-24-2  
EEC-N : 202-492-4

**Classification transport**  
ONU: 2689  
Transport Hazard class: 6.1  
Packing group III



**Danger**  
3.1.0/2; H300-2.6/3; H226  
P210-P241-P301+P310-P403+P235-P405-P501a

### 3-Chloro-1,2-propanediol > RE-Pure

RE

Description.....Clear, colorless liquid Density at 20° C.....1.317 - 1.327 Assay (GLC).....98 - 100 %  
Identification.....Positive Refractive index at 20°C.....1.4700 - 1.4800

Code	Size	Packaging	Notes
334201	100ml	Glass bottle	

## m-Chlorotoluene

C<sub>7</sub>H<sub>7</sub>Cl  
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**  
2.6/3; H226-3.1.1/4; H332-4.1.C/2; H411  
P210-P241-P243-P304+P340-P403+P235-P501a

### m-Chlorotoluene > RPE-For analysis

RPE

Description .....Clear colourless liquid Refractive index at 20°C.....1.5194 - 1.5234 Acidity (HCl) .....<=100 ppm  
Identification.....Positive Boiling point.....161.5 - 162.5 ° C Assay (GLC).....>=99 %  
Density at 20° C.....1.067 - 1.077 Residue on evaporation.....<=100 ppm

Code	Size	Packaging	Notes
439001	25ml	Glass bottle	

## Cholesterol

C<sub>27</sub>H<sub>46</sub>O  
Molecular Weight 386,66  
CAS : 57-88-5  
EEC-N : 200-353-2

C

## Cholesterol &gt; ERBAPharm-According to pharmacopoeia: BP-NF-Ph.Eur.-FU

ERBAPharm

Description ..... Yellowish powder      Organic volatile impurities ..... Conform NF  
Identification ..... Positive                      Melting point ..... 147 - 150 ° C  
Acidity ..... Conform Ph.Eur.                      Specific optical rotation ..... -34 - -38 °  
Alcohol solubility ..... Conform Ph.Eur.                      Loss on drying ..... ≤0.3 %  
Sulphated ash ..... ≤0.1 %  
Assay (cholesterol) ..... ≥95.0 % ss  
Assay (total sterols) ..... 97.0 - 103.0 % ss

Code	Size	Packaging	Notes
335532	100g	Plastic bottle	

## Chromate standard solution



Danger

3.5/1B; H340-3.6/1B; H350-4.1.C/3; H412-EUH203-EUH208-A26  
P281-P273-P201-P308+P313-P405-P501a

## Chromate standard solution &gt; RS-Standard for ionic chromatography

RS

Code	Size	Packaging	Notes
503240	50ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503241	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503242	250ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503243	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Water

## Chromatography reagents, derivatives and salts

1-Heptanesulphonic acid sodium salt ..... 229	Dimethyldichlorosilane ..... 171	n,o-Bis(trimethylsilyl)acetamide ..... 70
1-Hexanesulphonic acid sodium salt ..... 234	Dodecyl/benzenesulphonic acid sodium salt ..... 181	Ninhydrin ..... 351
1-Octanesulphonic acid sodium salt ..... 363	Fluorescein acid ..... 208	n-Trimethylsilylacetamide ..... 565
1-Pentanesulphonic acid sodium salt ..... 375	Fluorescein sodium salt ..... 208	o-Phthalaldehyde ..... 393
2,4'-Dibromoacetophenone ..... 155	Heptafluorobutyric acid ..... 227	p-Toluenesulfonic acid sodium salt ..... 558
2,4-Dinitrofluorobenzene ..... 176	Hexamethyldisilazane ..... 230	Tetrabutylammonium bisulfate ..... 540
2',7'-Dichlorofluorescein ..... 158	Hydrindantin ..... 238	Tetramethylammonium hydroxide 10% ..... 544
2-Mercaptoethanol ..... 314	Methyl isothiocyanate ..... 331	Trimethylcetyl ammonium bromide ..... 565
4-Dimethylaminopyridine ..... 171	n,n-Dimethylformamide dimethylacetal ..... 173	
Benzenesulfonyl chloride ..... 66	n,o-Bis(trimethylsilyl)-trifluoroacetamide	

## Chromazurol S

C<sub>23</sub>H<sub>13</sub>Cl<sub>2</sub>Na<sub>3</sub>O<sub>9</sub>S  
Molecular Weight 605,29  
CAS : 1667-99-8  
EEC-N : 216-787-0



Warning

3.1.O/4; H302-3.1.D/4; H312-3.1.I/4; H332-3.2/2; H315-3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

## Chromazurol S &gt; RPE-For analysis-C.I. 43825

RPE

Description ..... Dark brown powder      Identification ..... Positive

Code	Size	Packaging	Notes
440591	1g	Glass bottle	

**Complexometric indicator. For the determination of Be and Al**

## Chromium standard solution

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

RS

Code	Size	Packaging	Notes
615001002	100ml	Bottle	A 0.1 % solution Ref Ph.Eur 5001002
615001000	1l	Bottle	A 100 ppm solution Ref Ph.Eur 5001000

### Chromium standard solution > RS-Standard for ICP-MS

RS

Code	Size	Packaging	Notes
505566	50ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505567	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505568	100ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid

### Chromium standard solution > RS-Standard for ICP

RS

Code	Size	Packaging	Notes
503521	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503525	100ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
503523	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503527	500ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

### Chromium standard solution > RS-Standard for AAS

RS

Description.....Green-grey clear liquid Identification.....Positive Titration factor.....0.998 - 1.002

Code	Size	Packaging	Notes
E497505	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
E497501	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid

### 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	Normex	Plastic ampoule	conc. 1.000 ppm Matrix : Hydrochloric acid

## Chromium (III) acetate

Cr(CH<sub>3</sub>COO)<sub>3</sub>  
Molecular Weight 229  
CAS : 1066-30-4

### Chromium (III) acetate > RPE-For analysis

RPE

Description.....Green crystalline powder Ammonium .....<=80 ppm Heavy metals (Pb) .....<=30 ppm Al.....<=200 ppm  
Identification.....Positive Chloride .....<=200 ppm Subst. not ppt NH<sub>4</sub>OH .....<=0.2 % Fe.....<=50 ppm  
pH sol. 5% at 25° C .....4.0 - 6.0 Acid insoluble.....<=500 ppm Sulphate.....<=500 ppm Assay (oxidimetric).....>=23.5 % Cr

Code	Size	Packaging	Notes
440675	250g	Plastic bottle	

## Chromium (III) chloride hexahydrate

CrCl<sub>3</sub>.6H<sub>2</sub>O  
Molecular Weight 266  
CAS : 10060-12-5  
EEC-N : 233-038-3



**Warning**

3.1.O/4; H302  
P264-P270-P330-P301+P312-P501a

### Chromium (III) chloride hexahydrate > RPE-For analysis

RPE

Description.....Dark green crystalline powder Non precipit. con NH<sub>4</sub>OH (SO<sub>4</sub>).....<= 0.2 % Fe .....<= 100 ppm  
Identification.....Positive Ammonium .....<= 100 ppm Pb .....<= 50 ppm  
pH solution 5% .....2.0 - 3.5 Sulphate .....<= 200 ppm Assay (oxidimetric) .....>= 95.0 %

Code	Size	Packaging	Notes
440724	100g	Glass bottle	
440727	1kg	Plastic bottle	

## ▶ Chromium (III) chloride hexahydrate > RE-Pure

Description .....Cristall greens Sulphate .....<=100 ppm Assay (oxidimetric) .....>=95 %  
 Identification.....Positive Fe .....<=100 ppm  
 Subst. not ppt NH4OH.....<=0.2 % Pb.....<=50 ppm

Code	Size	Packaging	Notes
440742	5kg	Plastic bottle	

## ▶ Chromium (III) nitrate nonahydrate

Cr(NO<sub>3</sub>)<sub>3</sub>·9H<sub>2</sub>O  
 Molecular Weight 440,5  
 CAS : 7789-02-8

**Classification transport**  
 ONU: 2720  
 Transport Hazard class: 5.1  
 Packing group III

**Danger**  
 3.6/1B; H350I-4.1.A/1; H400-4.1.C/1; H410-3.4.S/1; H317-A26  
 P261-P280-P308+P313-P363-P405-P501a

## ▶ Chromium (III) nitrate nonahydrate > RPE-For analysis

Description .....Violet crystals Subst. not ppt NH4OH .....<= 0.2 % Cu.....<= 10 ppm Ni .....<= 50 ppm  
 Identification.....Positive Sulphate.....<= 50 ppm Fe.....<= 200 ppm Pb .....<= 20 ppm  
 pH sol. 5% at 25° C .....2.0 - 3.0 Ca .....<= 50 ppm Mg .....<= 50 ppm Zn .....<= 10 ppm  
 Ammonium .....<= 10 ppm Cd.....<= 10 ppm Mn .....<= 10 ppm Assay (oxidimetric).....>= 12.5 % Cr  
 Chloride .....<= 20 ppm Co.....<= 10 ppm Na .....<= 50 ppm

Code	Size	Packaging	Notes
440775	250g	Glass bottle	

## ▶ Chromium (III) oxide

 Synonym : *Chromia*

Cr<sub>2</sub>O<sub>3</sub>  
 Molecular Weight 151,99  
 CAS : 1308-38-9  
 EEC-N : 215-160-9

## ▶ Chromium (III) oxide > RPE-For analysis

Description .....Green powder Water solubility .....<= 0.2 %  
 Identification.....Positive Assay (oxidimetric) .....>= 99 %

Code	Size	Packaging	Notes
440825	250g	Plastic bottle	
440827	1kg	Plastic bottle	
440823	25kg	Plastic bucket	

## ▶ Chromium (III) potassium sulfate dodecahydrate

 Synonym : *Chrome alum*

CrK(SO<sub>4</sub>)<sub>2</sub>·12H<sub>2</sub>O  
 Molecular Weight 499,39  
 CAS : 7788-99-0

**Warning**  
 3.2/2; H315-3.3/2; H319  
 P280-P264-P305+P351+P338-P332+P313-P337+P313-P362

## ▶ Chromium (III) potassium sulfate dodecahydrate > RPE-For analysis-ACS-Reag.Ph.Eur.-Reag.USP

Description .....Purple crystals Ammonium .....<=100 ppm Al .....<=200 ppm  
 Identification.....Positive Chloride .....<=20 ppm Fe .....<=100 ppm  
 Water-insoluble matter .....<=100 ppm Heavy metals (Pb).....<=100 ppm Assay (oxidimetric) .....98.0 - 102.0 %

Code	Size	Packaging	Notes
440877	1kg	Plastic bottle	

## ► Chromium (III) potassium sulfate dodecahydrate > RE-Pure

**RE**

Description ..... Dark violet crystals Chloride ..... <= 20 ppm Fe ..... <= 100 ppm  
 Identification ..... Positive Ammonium ..... <= 100 ppm Assay (iodometric) ..... >= 99 %  
 Water-insoluble matter ..... <= 0.01 % Al ..... <= 200 ppm

Code	Size	Packaging	Notes
336457	1kg	Plastic bottle	

## Chromium (III) sulfate

Cr<sub>2</sub>(SO<sub>4</sub>)<sub>3</sub>.nH<sub>2</sub>O  
 Molecular Weight 392,18(an.)  
 CAS : 15244-38-9

### Classification transport

ONU: 3260  
 Transport Hazard class: 8  
 Packing group II



**Danger**  
 3.2/1B; H314-3.1.O/4; H302-3.1.D/4; H312-3.1.I/4; H332  
 P260-P261-P304+P340-P305+P351+P338-P405-P501a

## ► Chromium (III) sulfate > RPE-For analysis

**RPE**

Description ..... Dark green crystals Ammonium ..... <= 100 ppm Assay (iodometric) ..... >= 75 Cr<sub>2</sub>(SO<sub>4</sub>)<sub>3</sub>  
 Identification ..... Positive Chloride ..... <= 500 ppm  
 pH sol. 5% at 25° C ..... 1.00 - 2.50 Fe ..... <= 0.1 %

Code	Size	Packaging	Notes
440955	250g	Plastic bottle	
440957	1kg	Plastic bottle	

## Chromium (VI) oxide

 Synonym : *Chromic anhydride*

CrO<sub>3</sub>  
 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**  
 2.14/1; H271-3.1.O/3; H301-3.1.D/3; H311-3.1.I/2; H330-3.4.R/1; H334-3.5/1B; H340-3.6/1A; H350-3.9/1; H372-3.7/2; H361f-3.2/1A; H314-4.1.A/1; H400-4.1.C/1; H410-3.4.S/1; H317-A26  
 P210-P221-P283-P304+P340-P305+P351+P338-P342+P311-P405-P501a

## ► Chromium (VI) oxide > RPE-For analysis-ACS-Reag.Ph.Eur.-Reag.USP

**RPE**

Description ..... Purple crystals Chloride ..... <=50 ppm Fe,Al,Ba ..... <=300 ppm  
 Identification ..... Positive Nitrate ..... <=500 ppm Na ..... <=0.2 %  
 Water-insoluble matter ..... <=100 ppm Sulphate ..... <=50 ppm Assay (oxidimetric) ..... >=98.0 %

Code	Size	Packaging	Notes
421735	250g	Plastic bottle	
421737	1kg	Plastic bottle	

## ► Chromium (VI) oxide > RE-Pure

**RE**

Description ..... Amassed red - purple flakes or crystals Chloride ..... <=0.1 % Sulphate ..... <=0.2 %  
 Identification ..... Positive Water-insoluble matter ..... <=0.5 % Assay (oxidimetric) ..... >=97 %

Code	Size	Packaging	Notes
317507	1kg	Plastic bottle	
317503	25kg	Metal bucket	

## Chromium (VI) oxide solution

### Classification transport

ONU: 1755  
 Transport Hazard class: 8  
 Packing group II



**Danger**  
 3.1.O/3; H301-3.1.I/2; H330-3.4.R/1; H334-3.5/1B; H340-3.6/1A; H350-3.9/1; H372-3.7/2; H361f-3.2/1A; H314-4.1.A/1; H400-4.1.C/1; H410-3.1.D/4; H312-3.4.S/1; H317-3.8/3; H335-H336-A26  
 P260-P304+P340-P305+P351+P338-P342+P311-P405-P501a

## ► Chromium (VI) oxide solution > RE-Pure

**RE**

Description ..... Orange clear liquid Chloride ..... <=500 ppm Assay (oxidimetric) ..... 294.6 - 300.6 g/l  
 Identification ..... Positive Sulphate ..... <=0.1 %

Code	Size	Packaging	Notes
317511	2,5l	Bottle	

## Chromotropic acid disodium salt

(HO)<sub>2</sub>C<sub>10</sub>H<sub>4</sub>(SO<sub>3</sub>Na)<sub>2</sub>·2H<sub>2</sub>O  
 Molecular Weight 400,29  
 CAS : 5808-22-0  
 EEC-N : 204-972-9

C

### Chromotropic acid disodium salt > RPE-For analysis

RPE


Description .....Whitish powder    Water-insoluble matter .....<= 0.02 %    Formaldehyde sensit.....Conform  
 Identification.....Positive    Nitrate sensitivity .....Conform    Assay (acidimetric) .....>= 98.5 %

Code	Size	Packaging	Notes
404872	25g	Glass bottle	

## Chrysoidine Y

C<sub>12</sub>H<sub>13</sub>ClN<sub>4</sub>  
 Molecular Weight 248,71  
 CAS : 532-82-1  
 EEC-N : 208-545-8

**Classification transport**  
 ONU: 3143  
 Transport Hazard class: 6.1  
 Packing group III

 **Danger**  
 3.3/1; H318-3.5/2; H341-4.1.A/1; H400-4.1.C/1; H410-3.1.O/4; H302-3.2/2; H315  
 P280-P305+P351+P338-P308+P313-P330-P405-P501a

### Chrysoidine Y > RS-For microscopy-C.I. 11270

RS


Description .....Dark red powder    Identification.....Positive

Code	Size	Packaging	Notes
440572	25g	Glass bottle	

Dye for bacteriology and botanic

## Cinchonine

C<sub>19</sub>H<sub>22</sub>N<sub>2</sub>O  
 Molecular Weight 294,4  
 CAS : 118-10-5  
 EEC-N : 204-234-6

 **Warning**  
 3.1.O/4; H302-3.1.I/4; H332  
 P261-P271-P304+P340-P312-P330-P501a

### Cinchonine > RPE-For analysis

RPE


Description .....White powder    Loss on drying .....<= 1 %    Total sulphur .....<= 50 ppm  
 Identification.....Positive    Total chlorine.....<= 300 ppm    Fe.....<= 10 ppm  
 Ready carbonizable substances.....Conform    Dil. H<sub>2</sub>SO<sub>4</sub>-ins. matter.....<= 200 ppm    Assay (non-aqueous medium) .....>= 99 %  
 Melting point .....260 - 265 °C    Heavy metals (Pb).....<= 10 ppm  
 Specific optical rotation (c=5 in Ethano .....+225 - +230 °    Residue on ignition .....<= 0.1 %

Code	Size	Packaging	Notes
437251	10g	Glass bottle	

## Citral

Synonyms : 3,7-Dimethyl-2,6-octadienal  
 Geranial and neral mixture

(CH<sub>3</sub>)<sub>2</sub>C:CH(CH<sub>2</sub>)<sub>2</sub>C(CH<sub>3</sub>)CHCHO  
 Molecular Weight 152,24  
 CAS : 5392-40-5  
 EEC-N : 226-394-6

 **Warning**  
 3.2/2; H315-3.4.S/1; H317  
 P261-P280-P332+P313-P362-P363-P501a

### Citral > RE-Pure

RE

Description .....Yellow liquid    Density at 20° C.....0.886 - 0.890    Residue on ignition .....<=500 ppm  
 Identification.....Positive    Refractive index at 20°C .....1.4870 - 1.4910    Assay (GLC).....>=97 %

Code	Size	Packaging	Notes
437401	25ml	Glass bottle	

## Citric acid anhydrous

C<sub>6</sub>H<sub>8</sub>O<sub>7</sub>  
Molecular Weight 192,13  
CAS : 77-92-9  
EEC-N : 201-069-1



Warning

3.3/2; H319  
P280-P264-P305+P351+P338-P337+P313

## Citric acid anhydrous &gt;

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 (CPMP/ICH/283/95).....Conform

Code	Size	Packaging	Notes
302486	500g	Plastic bottle	
302485	5kg	Plastic bottle	
302484	50kg	Fibre drum	

## Citric acid monohydrate

C<sub>6</sub>H<sub>8</sub>O<sub>7</sub>.H<sub>2</sub>O  
Molecular Weight 192,13  
CAS : 5949-29-1  
EEC-N : 201-069-1



Danger

3.3/1; H318-3.8/3; H335-3.2/2; H315  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

## Citric acid monohydrate &gt; 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	250g	Plastic bottle	
403727	1kg	Plastic bottle	
403721	5kg	Plastic bottle	
403724	25kg	Drum	
403722	50kg	Fibre drum	

## Citric acid monohydrate &gt;

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	1kg	Plastic bottle	
302559	5kg	Plastic bottle	
302551	25kg	Plastic bucket	
302554	50kg	Fibre drum	

## Citric acid monohydrate &gt;

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 (CPMP/ICH/283/95).....Conform

Code	Size	Packaging	Notes
302507	1kg	Plastic bottle	
302509	5kg	Plastic bottle	
302501	25kg	Plastic bucket	
302504	50kg	Fibre drum	



## Clayton's yellow

Synonyms : *Thiazole Yellow G*  
*Titan Yellow*

$C_{28}H_{19}N_5O_6S_4Na_2$   
Molecular Weight 695,73  
CAS : 1829-00-1  
EEC-N : 217-377-4

C

### ▶ Clayton's yellow > RPE-For analysis-C.I. 19540

RPE

Description .....Yellow brown powder      pH range .....1.2 - 13.2      Mg sensitivity.....<=0.5 µg/ml  
Identification.....Positive      Loss on drying .....<=10 %      Residue on ignition .....18.4 - 22.4 %

Code	Size	Packaging	Notes
453518	5g	Glass bottle	

*Dye for microscopy. Indicator acid - base (pH 12.0 ± 13.0). Fluorescence indicator. For the determination of magnesium.*

## Cobalt standard solution

### ▶ Cobalt standard solution > RS-For analysis according to Ph. Eur. Chap. 4.1.2

RS

Code	Size	Packaging	Notes
615004300	1l	Bottle	A 100 ppm solution Ref Ph.Eur 5004300

### ▶ Cobalt standard solution > RS-Standard for ICP-MS

RS

Code	Size	Packaging	Notes
505561	50ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505562	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505565	100ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid

### ▶ Cobalt standard solution > RS-Standard for ICP

RS

Code	Size	Packaging	Notes
503511	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503515	100ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
503513	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503517	500ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

### ▶ Cobalt standard solution > RS-Standard for AAS

RS

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

Code	Size	Packaging	Notes
E497495	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
E497491	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid

### ▶ 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	Normex	Plastic ampoule	conc. 1.000 ppm Matrix : Nitric acid

## Cobalt (II) acetate tetrahydrate

$Co(CH_3COO)_2 \cdot 4H_2O$   
Molecular Weight 249,08  
CAS : 6147-53-1  
EEC-N : 200-755-8



Danger

3.4.R/1; H334-3.6/2; H351-3.1.O/4; H302-3.4.S/1; H317  
P261-P280-P285-P342+P311-P405-P501a

### ▶ Cobalt (II) acetate tetrahydrate > RPE-For analysis

RPE

Description .....Red-violet powder      Sulphate .....<=100 ppm      Zn .....<=200 ppm  
Identification.....Positive      Cu .....<=50 ppm      Assay (complexometric).....98.0 - 100.0 %  
pH sol. 5% at 25° C .....5.95 - 7.45      Fe .....<=10 ppm  
Chloride .....<=50 ppm      Ni .....<=0.1 %

Code	Size	Packaging	Notes
439154	100g	Glass bottle	
439155	250g	Glass bottle	

# COB

## Cobalt (II) ammonium sulfate

Co(NH<sub>4</sub>)<sub>2</sub>(SO<sub>4</sub>)<sub>2</sub>·6H<sub>2</sub>O  
Molecular Weight 395,23  
CAS : 13596-46-8  
EEC-N : 237-043-1



**Danger**

3.4.R/1; H334-3.6/2; H351-3.1.O/4; H302-3.4.S/1; H317  
P261-P280-P285-P342+P311-P405-P501a

### Cobalt (II) ammonium sulfate > RPE-For analysis

**RPE**

Description.....Red crystal. powder Water-insoluble matter.....<=100 ppm Fe.....<=30 ppm Assay (complexometric).....>=98 %  
Identification.....Positive Nitrate.....<=20 ppm Ni.....<=0.1 %  
pH sol. 5% at 25° C.....4.0 - 7.0 Subst. not ppt. (NH<sub>4</sub>)<sub>2</sub>S.....<=0.3 % Pb.....<=10 ppm  
Chloride.....<=20 ppm Cu.....<=10 ppm Zn.....<=50 ppm

Code	Size	Packaging	Notes
439204	100g	Glass bottle	
439207	1kg	Plastic bottle	

## Cobalt (II) carbonate basic

2CoCO<sub>3</sub>·3Co(OH)<sub>2</sub>·nH<sub>2</sub>O  
Molecular Weight 215,92  
CAS : 12069-68-0  
EEC-N : 235-112-0



**Danger**

3.4.R/1; H334-3.6/2; H351-3.1.O/4; H302-3.4.S/1; H317  
P261-P280-P285-P342+P311-P405-P501a

### Cobalt (II) carbonate basic > RPE-For analysis

**RPE**

Description.....Violet crystalline powder HCl-insoluble matter.....<=100 ppm Cu.....<=50 ppm Pb.....<=20 ppm  
Identification.....Positive Nitrate.....<=100 ppm Fe.....<=50 ppm Zn.....<=50 ppm  
Ammonium.....<=500 ppm Subst. not ppt. (NH<sub>4</sub>)<sub>2</sub>S.....<=0.3 % Na.....<=0.4 % Assay (complexometric).....48.0 - 53.0 %  
Chloride.....<=40 ppm Sulphate.....<=50 ppm Ni.....<=0.2 %

Code	Size	Packaging	Notes
439254	100g	Glass bottle	
439256	500g	Plastic bottle	

## Cobalt (II) chloride hexahydrate

CoCl<sub>2</sub>·6H<sub>2</sub>O  
Molecular Weight 237,93  
CAS : 7791-13-1  
EEC-N : 231-589-4

### Classification transport

ONU: 3288  
Transport Hazard class: 6.1  
Packing group II



**Danger**

3.4.R/1; H334-3.6/1A1; H3501-4.1.A/1; H400-4.1.C/1; H410-3.1.O/4; H302-3.4.S/1; H317-A26  
P261-P280-P285-P342+P311-P405-P501a

### 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	250g	Plastic bottle	
439357	1kg	Plastic bottle	
439353	25kg	Fibre drum	

## Cobalt (II) nitrate hexahydrate

Co(NO<sub>3</sub>)<sub>2</sub>·6H<sub>2</sub>O  
Molecular Weight 291,04  
CAS : 10026-22-9  
EEC-N : 233-402-1

### Classification transport

ONU: 1477  
Transport Hazard class: 5.1  
Packing group II



**Danger**

2.14/2; H272-3.4.R/1; H334-3.6/2; H351-3.1.O/4; H302-3.1.D/4; H312-3.4.S/1; H317  
P210-P221-P261-P342+P311-P405-P501a

### Cobalt (II) nitrate hexahydrate > RS-For environmental 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	100g	Glass bottle	

## Cobalt (II) nitrate hexahydrate > RPE-For analysis-ACS-Reag.Ph.Eur.-Reag.USP


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	250g	Plastic bottle	
439457	1kg	Plastic bottle	

## Cobalt (II) sulfate heptahydrate

CoSO<sub>4</sub>·7H<sub>2</sub>O  
Molecular Weight 281,1  
CAS : 10026-24-1  
EEC-N : 233-334-2

**Classification transport**  
ONU: 3077  
Transport Hazard class: 9  
Packing group III

 **Danger**  
3.4.R/1; H334-3.6/1B; H350-4.1.A/1; H400-4.1.C/1; H410-3.1.O/4; H302-3.4.S/1; H317-A26  
P261-P280-P285-P342+P311-P405-P501a

## Cobalt (II) sulfate heptahydrate > RPE-For analysis


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. (NH <sub>4</sub> ) <sub>2</sub> S.....<=0.1 %	Pb.....<=10 ppm	

Code	Size	Packaging	Notes
439705	250g	Plastic bottle	

## Cobalt (II,III) oxide

Co<sub>3</sub>O<sub>4</sub>  
Molecular Weight 240,8  
CAS : 1308-06-1  
EEC-N : 215-157-2

**Classification transport**  
ONU: 3077  
Transport Hazard class: 9  
Packing group III

 **Danger**  
3.6/1B; H350-3.4.S/1; H317-A26  
P261-P280-P308+P313-P363-P405-P501a

## Cobalt (II,III) oxide > RS-For microanalysis

Description.....Black granules	Identification.....Positive	Diameter.....0.4 - 2 mm
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Code	Size	Packaging	Notes
439653	50g	Glass bottle	

## COD, Chemical oxygen demand

Mercury (II) sulfate.....318	Silver sulfate solution 0.7% in sulfuric acid.....461	Sulfuric acid 4 mol/l (8N).....531
Potassium dichromate 0.0417 mol/l (0.25 N).....404	Sulfuric acid with 10 g/l Ag <sub>2</sub> SO <sub>4</sub> .....535	Ferriin 0.025 mol/l solution.....205
Potassium dichromate 0.04 mol/l (0.24 N) in 80 g/l HgSO <sub>4</sub> .....404	Sulfuric acid with 6.6 g/l Ag <sub>2</sub> SO <sub>4</sub> .....536	Ammonium iron (II) sulfate 0.12N.....41

## Congo red

C<sub>32</sub>H<sub>22</sub>N<sub>6</sub>Na<sub>2</sub>O<sub>6</sub>S<sub>2</sub>  
Molecular Weight 696,66  
CAS : 573-58-0  
EEC-N : 209-358-4

 **Danger**  
3.6/1B; H350-3.7/2; H361d-A26  
P281-P201-P202-P308+P313-P405-P501a

## Congo red > RPE-For analysis-C.I. 22120

Description.....Red brown powder	Colour change.....blue red
Identification.....Positive	pH range.....3.0 - 5.2

Code	Size	Packaging	Notes
476762	25g	Glass bottle	
476764	100g	Plastic bottle	

*Dye for microscopy (histology). Indicator acid - base (pH 3.0 ÷ 5.2).*

# CON

## Congo red solution

► Congo red solution > RS-For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611022001	100ml	Bottle	Ref Ph.Eur 1022001

Change colour : pH 3.0 (blue) to pH 5.0 (pink)

## Coomassie brilliant blue R 250

C<sub>45</sub>H<sub>44</sub>N<sub>3</sub>NaO<sub>7</sub>S<sub>2</sub>  
Molecular Weight 825,99  
CAS : 6104-59-2  
EEC-N : 228-060-5



### Warning

3.1.O/4; H302-3.1.D/4; H312-3.1.I/4; H332  
P261-P271-P280-P304+P340-P312-P501a

► Coomassie brilliant blue R 250 > RS-For microscopy-C.I. 42660

RS

Description.....Dark violet powder Identification.....Positive E (1%/1cm lambda max) .....>= 700

Code	Size	Packaging	Notes
428642	25g	Glass bottle	

Dye for histochemistry.

## Copper standard solution

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

RS

Code	Size	Packaging	Notes
615001100	100ml	Bottle	A 0.1 % solution Ref Ph.Eur 5001100

► Copper standard solution > RS-Standard for ICP-MS

RS

Code	Size	Packaging	Notes
505576	50ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505577	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505578	100ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid

► Copper standard solution > RS-Standard for ICP

RS

Code	Size	Packaging	Notes
503541	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503545	100ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
503543	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

► Copper standard solution > RS-Standard for AAS

RS

Description.....Clear blue liquid Identification.....Positive Titration factor.....0.998 - 1.002

Code	Size	Packaging	Notes
E497615	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
E497611	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid

► 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	Normex	Plastic ampoule	conc. 1.000 ppm Matrix : Nitric acid

► **Copper standard solution >**  
RS-Quality control standard solution for AAS (graphite furnace)

Code	Size	Packaging	Notes
504361	50ml	Bottle	conc. 10 +/- 1 µg/L Matrix : 2% Nitric acid

► **Copper, electrolytic rebaked sheet**

Cu			4.1.C/4; H413
Molecular Weight 63,55			P273-P501a
CAS : 7440-50-8			
EEC-N : 231-159-6			

► **Copper, electrolytic rebaked sheet > RPE-For analysis**

Description.....Metallic sheet Identification.....Positive Assay.....>=99.8 %

Code	Size	Packaging	Notes
475215	250g	Bag	

~ 0.15 mm thick.

► **Copper, electrolytic turnings**

Cu			4.1.C/4; H413
Molecular Weight 63,55			P273-P501a
CAS : 7440-50-8			
EEC-N : 231-159-6			

► **Copper, electrolytic turnings > RPE-For analysis**

Description.....metal shavings Identification.....Positive Assay.....>=99 %

Code	Size	Packaging	Notes
475305	250g	Plastic bottle	
475307	1kg	Plastic bottle	

► **Copper, electrolytic wire**

Cu			4.1.C/4; H413
Molecular Weight 63,55			P273-P501a
CAS : 7440-50-8			
EEC-N : 231-159-6			

► **Copper, electrolytic wire > RPE-For analysis**

Description.....wire Ag.....<=100 ppm P.....<=10 ppm  
 Identification.....Positive AS.....<=5 ppm Pb.....<=200 ppm  
 HNO3-insoluble matter.....<=300 ppm Fe.....<=50 ppm Assay.....>=99.9 %  
 Sn + Sb.....<=200 ppm Mn.....<=10 ppm

Code	Size	Packaging	Notes
475185	250g	Bag	
475187	1kg	Bag	

~ 1mm diameter.

# COP

## Copper, reduced powder

Cu  
Molecular Weight 63,55  
CAS : 7440-50-8  
EEC-N : 231-159-6

4.1.C/4; 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	100g	Glass bottle	
475337	1kg	Glass bottle	

## Copper (I) chloride

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**  
4.1.A/1; H400-4.1.C/1; H410-3.1.O/4; H302  
P273-P264-P270-P330-P301+P312-P501a

### Copper (I) chloride > RPE-For analysis

RPE

Description.....White-greenish powder Substances not ppt. H<sub>2</sub>S.....<= 2 % Fe.....<= 0.02 %  
Identification.....Positive Sulphate.....<= 0.1 % Assay (oxidimetric).....>= 90.0 %  
HCl-insoluble matter.....<= 0.02 % As.....<= 10 ppm

Code	Size	Packaging	Notes
475605	250g	Plastic bottle	
475607	1kg	Plastic bottle	

## Copper (I) chloride solution 7% in ammonia

CuCl  
CAS : 7758-89-6

**Classification transport**  
ONU: 3082  
Transport Hazard class: 9  
Packing group III

**Danger**  
3.2/1B; H314-4.1.C/2; H411  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

### Copper (I) chloride solution 7% in ammonia > RS-For gaz analysis according to Orsat

RS

Description.....Blue liquid Density at 20° C.....~ 1.08  
Identification.....Positive Assay.....6.5 - 7.5 %

Code	Size	Packaging	Notes
E475632	1l	Glass bottle	

Stabilized electrolytic copper.

## Copper (I) iodide

CuI  
Molecular Weight 190,44  
CAS : 7681-65-4  
EEC-N : 231-674-6

**Classification transport**  
ONU: 3077  
Transport Hazard class: 9  
Packing group III

**Warning**  
4.1.A/1; H400-4.1.C/1; H410-3.1.O/4; H302-3.2/2; H315-3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

### Copper (I) iodide > RE-Pure

RE

Description.....Brown powder Cd.....<= 50 ppm Pb.....<= 100 ppm  
Identification.....Positive Fe.....<= 50 ppm Zn.....<= 50 ppm  
Chloride.....<= 0.05 % K.....<= 0.05 % Assay (oxidimetric).....>= 98 %  
Sulphate.....<= 0.05 % Ni.....<= 50 ppm

Code	Size	Packaging	Notes
364637	1kg	Plastic bottle	
364631	25kg	Fibre drum	

## Copper (II) acetate hydrate

$\text{Cu}(\text{CH}_3\text{COO})_2 \cdot \text{H}_2\text{O}$   
 Molecular Weight 199,65  
 CAS : 6046-93-1  
 EEC-N : 205-553-3



Warning

3.1.O/4; H302  
 P264-P270-P330-P301+P312-P501a

C

## Copper (II) acetate hydrate &gt; RPE-For analysis-ACS

RPE

Description .....Green-azure crystalline powder Sulphate .....<= 100 ppm Na .....<=500 ppm  
 Identification.....Positive Ca .....<=50 ppm Assay (oxidimetric) .....98.0-102.0 %  
 Chloride .....<= 30 ppm K .....<=100 ppm  
 Water-insoluble matter .....<= 100 ppm Ni .....<=100 ppm

Code	Size	Packaging	Notes
475405	250g	Plastic bottle	
475407	1kg	Plastic bottle	

## Copper (II) acetate hydrate &gt; RE-Pure

RE

Description .....Green azure crystals Insoluble in Acetic ac. ....<=1 % Assay (oxidimetric) .....>=28 % (Cu)  
 Identification.....Positive Sulphate.....<=5 %  
 Chloride .....<=500 ppm Fe.....<=0.2 %

Code	Size	Packaging	Notes
364007	1kg	Plastic bottle	

## Copper (II) ammonium chloride

$\text{CuCl}_2 \cdot 2\text{NH}_4\text{Cl} \cdot 2\text{H}_2\text{O}$   
 Molecular Weight 277,46  
 CAS : 65722-60-3  
 EEC-N : 239-690-5



Warning

3.1.O/4; H302-3.1.D/4; H312-3.1.I/4; H332  
 P261-P271-P280-P304+P340-P312-P501a

## Copper (II) ammonium chloride &gt; RPE-For analysis

RPE

Description .....Azure crystals Water-insoluble matter .....<=30 ppm Ba .....<=50 ppm Zn .....<=20 ppm  
 Identification.....Positive Nitrate .....<=30 ppm Fe .....<=20 ppm Assay (oxidimetric) .....>=99 %  
 pH sol. 5% at 25° C .....2.0 - 4.0 Sulphate.....<=50 ppm Ni .....<=10 ppm  
 Substances not ppt. H2S .....<=0.1 % As.....<=1 ppm Pb .....<=40 ppm

Code	Size	Packaging	Notes
475455	250g	Plastic bottle	
475457	1kg	Plastic bottle	

## Copper (II) carbonate (basic)

$\text{CuCO}_3 \cdot \text{Cu}(\text{OH})_2 \cdot n\text{H}_2\text{O}$   
 Molecular Weight 221,1  
 CAS : 12069-69-1  
 EEC-N : 235-113-6



Warning

3.1.O/4; H302  
 P264-P270-P330-P301+P312-P501a

## Copper (II) carbonate (basic) &gt; RPE-For analysis

RPE

Description .....Green azure powder Pb .....<= 100 ppm Chlorine .....<= 250 ppm  
 Identification.....Positive Assay (oxidimetric).....53 - 57 % (Cu) Specific gravity .....0.8 - 1.05 g/cm3  
 Fe .....<= 300 ppm Cd .....<= 10 ppm Acidity solubility .....Complete


Code	Size	Packaging	Notes
475555	250g	Plastic bottle	
475557	1kg	Plastic bottle	
475553	25kg	Plastic bucket	

# COP

## Copper (II) chloride dihydrate

CuCl<sub>2</sub>·2H<sub>2</sub>O  
Molecular Weight 170,47  
CAS : 10125-13-0  
EEC-N : 231-210-2

**Classification transport**  
ONU: 2802  
Transport Hazard class: 8  
Packing group III

 **Danger**  
3.1.O/3; H301-3.1.I/2; H330  
P260-P271-P284-P304+P340-P405-P501a

### Copper (II) chloride dihydrate > RPE-For analysis

**RPE**

Description .....Green - azure crystals  
Assay (complexometric) .....>= 99 %  
Identification .....Positive  
Ca .....<= 20 ppm  
pH sol. 5% at 20°C .....3.0 - 3.8  
K .....<= 20 ppm  
Total nitrogen .....<= 40 ppm  
Mg .....<= 20 ppm  
Na .....<= 20 ppm  
Ni .....<= 50 ppm  
Sulphate .....<= 50 ppm  
Pb .....<= 40 ppm  
As .....<= 1 ppm  
Fe .....<= 10 ppm

Code	Size	Packaging	Notes
475685	250g	Plastic bottle	
475687	1kg	Plastic bottle	

### Copper (II) chloride dihydrate > RE-Pure

**RE**



Description .....Blue crystals  
Nitrogen compounds (N) .....<= 0.004 %  
Identification .....Positive  
As .....<= 1 ppm  
pH sol. 5% at 20°C .....3 - 3.8  
Ca .....<= 20 ppm  
Sulphate .....<= 50 ppm  
Nitrate .....<= 0.5 %  
K .....<= 20 ppm  
Zn .....<= 0.05 %  
Solubility .....Conform  
Pb .....<= 40 ppm

Code	Size	Packaging	Notes
364507	1kg	Plastic bottle	
364502	25kg	Drum	

## Copper (II) nitrate trihydrate

Cu(NO<sub>3</sub>)<sub>2</sub>·3H<sub>2</sub>O  
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**  
2.14/2; H272-3.1.O/4; H302  
P210-P221-P280-P220-P330-P501a

### Copper (II) nitrate trihydrate > RPE-For analysis


**RPE**

Description .....Blue crystals  
Chloride .....<=10 ppm  
Identification .....Positive  
Water-insoluble matter .....<=30 ppm  
pH sol. 5% at 25° C .....3.0 - 4.0  
Substances not ppt. H<sub>2</sub>S .....<=500 ppm  
Ammonium .....<=10 ppm  
Subst. ppt. by (NH<sub>4</sub>)<sub>2</sub>S .....<=50 ppm  
Sulphate .....<=25 ppm  
As .....<=1 ppm  
Ba .....<=50 ppm  
Fe .....<=20 ppm  
Ni .....<=10 ppm  
Pb .....<=10 ppm  
Zn .....<=10 ppm  
Assay (oxidimetric) .....>=99.5 %

Code	Size	Packaging	Notes
475786	500g	Plastic bottle	
475784	2,5kg	Plastic bottle	

## Copper (II) oxide

CuO  
Molecular Weight 79,55  
CAS : 1317-38-0  
EEC-N : 215-269-1

 **Warning**  
3.1.O/4; H302  
P264-P270-P330-P301+P312-P501a

### Copper (II) oxide > RPE-For analysis

**RPE**


Description .....Black powder  
HNO<sub>3</sub>-insoluble matter .....<= 0.02 %  
Identification .....Positive  
Substances not ppt. H<sub>2</sub>S .....<= 0.2 %  
Free alkalis .....Conform  
Nitrogen compounds (N) .....<= 0.002 %  
Total sulfur (SO<sub>4</sub>) .....<= 0.01 %  
C .....<= 500 ppm  
Assay (iodometric) .....>= 99 %

Code	Size	Packaging	Notes
475994	100g	Glass bottle	



## Copper (II) oxide, wire

CuO  
Molecular Weight 79,55  
CAS : 1317-38-0  
EEC-N : 215-269-1

 **Warning**  
3.1.O/4; H302  
P264-P270-P330-P301+P312-P501a

C

## ▶ Copper (II) oxide, wire &gt; RS-For microanalysis-ACS


RS

Description..... Grey wire Nitrogen compounds (N).....<=20 ppm Sulphur compounds.....<=120 ppm  
Identification.....Positive Carbon compounds.....<=20 ppm

Code	Size	Packaging	Notes
475966	500g	Plastic bottle	

## Copper (II) pyrophosphate

Cu<sub>2</sub>P<sub>2</sub>O<sub>7</sub>.nH<sub>2</sub>O  
Molecular Weight 237,48(A)  
CAS : 15191-80-7  
EEC-N : 239-250-2

 **Warning**  
3.1.O/4; H302  
P264-P270-P330-P301+P312-P501a

## ▶ Copper (II) pyrophosphate &gt; RE-Pure

RE

Description.....Powder granul. azzurra Loss on drying.....<= 20 %  
Identification.....Positive Assay (ex Cu).....33 - 37 %


Code	Size	Packaging	Notes
364621	1kg	Plastic bottle	

For electroplating.

## Copper (II) sulfate anhydrous

CuSO<sub>4</sub>  
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**  
4.1.A/1; H400-4.1.C/1; H410-3.1.O/4; H302-3.2/2; H315-3.3/2; H319  
P280-P305+P351+P338-P330-P332+P313-P337+P313-P501a

## ▶ Copper (II) sulfate anhydrous &gt; RPE-For analysis

RPE

Description.....Greyish powder Dil. H<sub>2</sub>SO<sub>4</sub>-ins. matter.....<=50 ppm Mg.....<=100 ppm Assay (oxidimetric).....99 - 100.5 % (s.s.)  
Identification.....Positive Ca.....<=50 ppm Na.....<=200 ppm  
Loss on drying.....<=1 % Fe.....<=30 ppm Ni.....<=50 ppm  
Chloride.....<=100 ppm K.....<=100 ppm Pb.....<=80 ppm

Code	Size	Packaging	Notes
476245	250g	Plastic bottle	
476247	1kg	Plastic bottle	

## ▶ Copper (II) sulfate anhydrous &gt; RE-Pure

RE

Description.....Grey powder Fe.....<=0.1 % Assay (oxidimetric).....>=97 %  
Identification.....Positive Water-insoluble matter.....<=0.1 %

Code	Size	Packaging	Notes
365006	500g	Plastic bottle	
365002	25kg	Drum	

Product specifications are subject to changes.  
Please visit our website for updates.

# COP

## Copper (II) sulfate pentahydrate

CuSO<sub>4</sub>·5H<sub>2</sub>O  
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**

3.1.O/3; H301-4.1.A/1; H400-4.1.C/1; H410-3.2/2; H315-3.3/2; H319  
P280-P305+P351+P338-P301+P310-P330-P405-P501a

### Copper (II) sulfate pentahydrate > RS-For microanalysis

RS

Description.....Blue crystals Not soluble matter .....<= 0.005 % Assay (iodometric) .....98.0 - 102.0 %  
Identification.....Positive Chloride .....<=100 ppm Ca .....<=50 ppm Ni .....<=50 ppm  
Total nitrogen .....<=20 ppm Fe.....<=30 ppm Assay (oxidimetric) .....98.0 - 102.0 %  
Chloride .....<=10 ppm K .....<=100 ppm

Code	Size	Packaging	Notes
476154	100g	Glass bottle	

### Copper (II) sulfate pentahydrate > RPE-For analysis-ACS

RPE

Description.....Blue crystals H2SO4-insoluble matter .....<=50 ppm Na .....<=200 ppm  
Identification.....Positive Ca .....<=100 ppm K .....<=50 ppm Ni .....<=50 ppm  
Total nitrogen .....<=20 ppm Fe.....<=30 ppm Assay (oxidimetric) .....98.0 - 102.0 %  
Chloride .....<=10 ppm K .....<=100 ppm

Code	Size	Packaging	Notes
476097	1kg	Plastic bottle	
476099	5kg	Plastic bottle	
476092	25kg	Drum	

### Copper (II) sulfate pentahydrate > ERBAPharm-According to pharmacopoeia: Ph.Eur.-USP-FU-BP

ERBAPharm

Description.....Blue crystalline powder Loss on drying .....35.0 - 36.5 % Fe.....<=30 ppm Ni .....<=50 ppm  
Identification.....Positive Chloride .....<=100 ppm K .....<=50 ppm Pb .....<=50.0 ppm  
Appearance of solution.....Conform Ph.Eur. Ca .....<=50 ppm Na.....<=200 ppm Assay (oxidimetric) .....99.0 - 100.5 %

Code	Size	Packaging	Notes
364757	1kg	Plastic bottle	
364759	5kg	Plastic bottle	
364752	25kg	Drum	

## Copper (II) sulfate solution 12.5%

### Copper (II) sulfate solution 12.5% > RS-For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611022501	100ml	Bottle	Ref Ph.Eur 1022500

### Copper (II) sulfate solution 12.5% > RPE-For analysis

RPE

Description.....Clear blue liquid Density at 20° C .....~ 1.08  
Identification.....Positive Assay (oxidimetric) .....12.0 - 13.0 %

Code	Size	Packaging	Notes
E476211	1l	Glass bottle	

## Copper tetrammine, ammoniacal solution of

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



**Danger**

3.2/1B; H314-3.1.O/4; H302  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

### Copper tetrammine, ammoniacal solution of > RS-For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611022600	100ml	Bottle	Ref Ph.Eur 1022600

## Coumarin

C<sub>6</sub>H<sub>4</sub>OCOCH:CH  
 Molecular Weight 146,14  
 CAS : 91-64-5  
 EEC-N : 202-086-7



**Danger**

3.1.O/3; H301-3.4.S/1; H317  
 P261-P280-P301+P310-P330-P405-P501a

C

## Coumarin &gt; RPE-For analysis

RPE

Description.....White crystals Melting point .....67.0 - 71.0 °C  
 Identification.....Positive Assay (GLC).....>= 99.0 %

Code	Size	Packaging	Notes
441003	50g	Glass bottle	

## Creatinine

CH<sub>3</sub>NC:NHNHCOCH<sub>2</sub>  
 Molecular Weight 113,12  
 CAS : 60-27-5  
 EEC-N : 200-466-7

## Creatinine &gt; RPE-For analysis

RPE

Description.....White crystalline powder pH solution 5%.....8 -9  
 Identification.....Positive Chloride.....<= 100 ppm Residue on ignition .....<= 0.1 %  
 Assay .....99.0 - 101.0 % s.s. Sulphate .....<= 200 ppm Appearance of solution.....Conform  
 Loss on drying.....<= 0.5 % Heavy metals (Pb).....<= 20 ppm Creatine (TLC).....<= 0.2 %

Code	Size	Packaging	Notes
440332	25g	Glass bottle	

## Cresol red

C<sub>22</sub>H<sub>18</sub>O<sub>4</sub>  
 Molecular Weight 346,38  
 CAS : 596-27-0  
 EEC-N : 209-881-8

## Cresol red &gt; RPE-For analysis

RPE

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

Code	Size	Packaging	Notes
440341	25g	Bottle	

*Dye for microscopy.*

## m-Cresol

Synonym : 3-Methylphenol

CH<sub>3</sub>C<sub>6</sub>H<sub>4</sub>OH  
 Molecular Weight 108  
 CAS : 108-39-4  
 EEC-N : 203-577-9

## Classification transport

ONU: 2076  
 Transport Hazard class: 6.1  
 Packing group II



**Danger**

3.1.O/3; H301-3.1.D/3; H311-3.2/1B; H314  
 P260-P280-P304+P340-P305+P351+P338-P405-P501a

## m-Cresol &gt; RE-Pure

RE

Description.....Reddish liquid Water (K.F).....<=0.05 % Boiling point .....~ 202 °C  
 Identification.....Positive Assay (GLO).....>=99 % Melting point.....~ 12 °C

Code	Size	Packaging	Notes
440435	250g	Glass bottle	
440437	1kg	Glass bottle	

# CRE

## m-Cresol purple

C<sub>21</sub>H<sub>18</sub>O<sub>5</sub>S  
Molecular Weight 382,44  
CAS : 2303-01-07  
EEC-N : 218-960-6

### m-Cresol purple > RPE-For analysis

RPE

Description.....Dark green powder Solubility (0.1% in ETOH 50%).....Complete Colour change.....yellow - violet  
Identification.....Positive E (1%/1cm) at 578nm in tamp.....>= 900 pH range.....7.4 - 9.0

Code	Size	Packaging	Notes
470067	1g	Glass bottle	


Clark indicator series. Acid-base indicator (pH 2.4 to 7.6 ÷ 0.5 ÷ 9.2).

## o-Cresol

Synonym : 2-Methylphenol

CH<sub>3</sub>C<sub>6</sub>H<sub>4</sub>OH  
Molecular Weight 108  
CAS : 95-48-7  
EEC-N : 202-423-8

**Classification transport**  
ONU: 3455  
Transport Hazard class: 6.1  
Packing group II

 **Danger**  
3.1.O/3; H301-3.1.D/3; H311-3.2/1B; H314  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

### o-Cresol > RE-Pure

RE


Description.....Yellow-brown solid Melting point.....29 - 31 °C Assay (GLC).....>= 98 %  
Identification.....Positive Water (K.F.).....<= 0.3 %  
Boiling point.....189.5 - 192.5 °C Residue on ignition.....<= 0.1 %

Code	Size	Packaging	Notes
440385	250g	Glass bottle	
440387	1kg	Plastic bottle	

## o-Cresol red

Synonym : o-Cresolsulfonphthalein

C<sub>21</sub>H<sub>18</sub>O<sub>5</sub>S  
Molecular Weight 382,44  
CAS : 1733-12-6  
EEC-N : 217-064-2

 **Warning**  
3.2/2; H315-3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

### 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	5g	Glass bottle	

Clark indicator series.

## o-Cresol Red solution 0.2% in ethanol

C<sub>21</sub>H<sub>18</sub>O<sub>5</sub>S  
CAS : 1733-12-6

**Classification transport**  
ONU: 1170  
Transport Hazard class: 3  
Packing group III

 **Warning**  
2.6/3; H226  
P210-P241-P243-P303+P361+P353-P403+P235-P501a

### o-Cresol Red solution 0.2% in ethanol > RPE-For analysis

RPE

Description.....Red liquid Sensitivity(pH 7.2-8.8).....Conform  
Identification.....Positive Colour change.....Yellow-red violet

Code	Size	Packaging	Notes
E476805	250ml	Glass bottle	

Indicator series Clark indicator acid-base (pH 0.2 to 1.8 to 7.0 ÷ 8.8).

**α-trans-Crotonic acid**

CH<sub>3</sub>CH: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**

3.1.D/3; H311-3.1.O/4; H302-3.2/2; H315-3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

C

**α-trans-Crotonic acid > RPE-For analysis****RPE**

Description .....white or yellow powder  
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	50g	Glass bottle	

**Crystal violet**

C<sub>25</sub>H<sub>30</sub>ClN<sub>3</sub>  
Molecular Weight 408  
CAS : 548-62-9  
EEC-N : 208-953-6

**Classification transport**  
ONU: 2811  
Transport Hazard class: 9  
Packing group III

**Danger**

3.3/1; H318-3.6/2; H351-4.1.A/1; H400-4.1.C/1; H410-3.1.O/4; H302  
P280-P305+P351+P338-P308+P313-P330-P405-P501a

**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	25g	Glass bottle	

*Dye for microscopy (bacteriology-Botanical-histology). Indicator acid - base (pH 0.1 ÷ 2.0).*

**Crystal violet oxalate**

**Classification transport**  
ONU: 1993  
Transport Hazard class: 3  
Packing group III

**Warning**

2.6/3; H226-3.6/2; H351-3.3/2; H319-4.1.C/3; H412  
P210-P241-P305+P351+P338-P403+P235-P405-P501a

**Crystal violet oxalate > RS-For microscopy****RS**

Description .....Violet clear liquid  
Identification.....Positive

Code	Size	Packaging	Notes
491561	250ml	Plastic bottle	

*Dye according to bacteriology for Gram-Hucker Kit. Contains ethanol.*

**Crystal violet solution 0.5% in acetic anhydride**

C<sub>25</sub>H<sub>30</sub>ClN<sub>3</sub>  
CAS : 548-62-9

**Classification transport**  
ONU: 2920  
Transport Hazard class: 8  
Packing group II

**Danger**

3.2/1A; H314-2.6/3; H226-4.1.C/3; H412  
P210-P241-P304+P340-P305+P351+P338-P403+P235-P405-P501a

**Crystal violet solution 0.5% in acetic anhydride > RS-For analysis according to Ph. Eur. Chap. 4.1.1****RS**

Code	Size	Packaging	Notes
611022901	100ml	Glass bottle	Ref Ph.Eur 1022901

# CRY

## ▶ Crystal violet solution 0.5% in acetic anhydride > RPE-For analysis

RPE

Description.....Violet clear liquid Identification.....Positive

Code	Size	Packaging	Notes
E491551	500ml	Glass bottle	

## ▶ Cupferron

Synonym : *N-Nitroso-N-phenylhydroxylamine ammonium salt*

$C_6H_5N(NO)ONH_4$   
Molecular Weight 155,16  
CAS : 135-20-6  
EEC-N : 205-183-2

**Classification transport**  
ONU: 2811  
Transport Hazard class: 6.1  
Packing group II



**Danger**

3.1.O/3; H301-3.1.D/2; H310-3.5/2; H341-3.6/2; H351-3.2/2; H315-3.3/2; H319-3.8/3; H335  
P261-P302+P350-P304+P340-P305+P351+P338-P405-P501a

## ▶ Cupferron > RPE-For analysis

RPE

Description.....Yellowish powder or flakes Melting point .....148 - 152 °C Assay .....>= 98.0 %  
Identification.....Positive Residue on ignition .....<= 1.0 %

Code	Size	Packaging	Notes
441052	25g	Glass bottle	

Stabilized with ammonium carbonate. For Iron determination.

## ▶ Cupri-citric solution

## ▶ Cupri-citric solution > RS-For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611023100	1l	Bottle	Ref Ph.Eur 1023100

## ▶ Cupri-tartaric solution

## ▶ Cupri-tartaric solution > RS-For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611023300	2x500ml	Bottle	Ref Ph.Eur 1023300

## ▶ Curcumin

$C_{21}H_{20}O_6$   
Molecular Weight 368,37  
CAS : 458-37-7  
EEC-N : 207-280-5



**Warning**

3.2/2; H315-3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

## ▶ Curcumin > RPE-For analysis-C.I. 75300

RPE

Description.....Yellow orange powder Identification.....Positive Assay (U.V.).....>= 98 %

Code	Size	Packaging	Notes
441101	1g	Glass bottle	

Acid-base indicator (pH 7,4÷8,6).

## Cyanide standard solution

## Classification transport

ONU: 1760  
 Transport Hazard class: 8  
 Packing group III



## Warning

3.2/2; H315-3.3/2; H319  
 P280-P264-P305+P351+P338-P332+P313-P337+P313-P362

## Cyanide standard solution &gt; RS-Standard for ionic chromatography

RS

Code	Size	Packaging	Notes
503358	100ml	Glass bottle	conc. 1.000 ppm Matrix : Water

## Cyclohexane

CH<sub>2</sub>(CH<sub>2</sub>)<sub>4</sub>CH<sub>2</sub>  
 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

2.6/2; H225-3.10/1; H304-4.1.A/1; H400-4.1.C/1; H410-3.2/2; H315-3.8/3; H336  
 P210-P241-P304+P340-P403+P235-P405-P501a

## Cyclohexane &gt; RS-For HPLC Isocratic

RS

Description	Clear colourless liquid	Water (K.F.)	<=100 ppm	At 200 nm	>=4 %	At 250 nm	>= 98 %
Identification	Positive	Residue on evaporation	<=2 ppm	At 210 nm	>=15 %	At 260 nm	>=98,5 %
Density at 20° C	0.776 - 0.782	Acidity or alkalinity	<=0.0002 meq/g	At 220 nm	>=50 %	Aromatic compounds	
Refractive index at 20°C	1.4229 - 1.4299	Assay (GLC)	>=99.9 %	At 230 nm	>=80 %	<= 5 ppm	
Boiling point	80.2 - 81.2 °C	<b>U.V. Transmittance</b>		At 240 nm	>=92 %		

Code	Size	Packaging	Notes
412431000	1l	Glass bottle	
412432000	2,5l	Glass bottle	

## Cyclohexane &gt; RS-PESTIPUR- For pesticide analysis

RS

Description	Clear colourless liquid	Water	<= 100 ppm	GC-NPD (Ethylparation)	<= 3 ng/l
Identification	Positive	Not volatile residue	<= 2 ppm	Assay (GLC)	>= 99.8 %
Colour	<= 10 hazen	GC-ECD (Lindane)	<= 3 ng/l	Refractive index at 20°C	1.424 - 1.428

Code	Size	Packaging	Notes
436931	1l	Glass bottle	
436932	2,5l	Glass bottle	

## Cyclohexane &gt; RS-SPECTROSOL - For optical spectroscopy

RS

Description	Clear liquid	Boiling point	80.2 - 81.2 °C	Aromatic compounds	<=5 ppm	At 230 nm	>=75 %
Colour	<=10 APHA	Melting point	5.5 - 7.5 °C	Assay (GLC)	>=99.9 %	At 250 nm	>=98 %
Identification	Positive	Acidity or alkalinity	<=0.0002 meq/g	<b>U.V. Transmittance</b>			
Density at 20° C	0.776 - 0.782	Water (K.F.)	<=100 ppm	At 210 nm	>=15 %		
Refractive index at 20°C	1.4229 - 1.4299	Residue on evaporation	<=5 ppm	At 220 nm	>=45 %		

Code	Size	Packaging	Notes
436967	1l	Glass bottle	
436963	2,5l	Glass bottle	

## Cyclohexane &gt; RS-Anhydrous-For analysis

RS

Refractive index at 20°C	1.424 - 1.428	Aromatic compounds	<= 150 mg/Kg	Identification (IR)	Conform
Water content (K.F.)	<= 50 mg/Kg	Assay (GC)	>= 99.8 %	Density d20/4	0.775 - 0.782
Non volatile residue	<= 10 mg/Kg	Methylcyclohexane	<= 1000 mg/Kg	Total sulphur (S)	<= 1 ppm
Colour	<= 10 Hazen	Clear liquid appearance	Conform		

Code	Size	Packaging	Notes
P0251010	200ml	Bottle with sept	
P0251016	1l	Glass bottle	

Product specifications are subject to changes.  
 Please visit our website for updates.

## Cyclohexane > RPE-For analysis-ACS-Reag.Ph.Eur.-Reag.USP

RPE

Description .....Clear liquid Alcohol miscibility .....Complete Melting point.....5.5 - 7.5 °C Total sulphur.....<=1 ppm  
 Colour.....<=10 APHA Diethyl ether miscib. ....Complete Water (K.F.).....<=100 ppm Assay (GLC).....>=99.8 %  
 Identification (I.R.).....Conform Density at 20° C.....0.776 - 0.782 Residue on evaporation .....<=10 ppm Aromatic compounds .....<= 150 ppm  
 Water solubility .....Conform Refractive index at 20°C .....1.4229 - 1.4299 Acidity (acetic acid) .....<=2 ppm Methylcyclohexane .....<= 0.1 %  
 Ready carbonizable substances .....Conform Boiling point .....80.2 - 81.2 °C Subst. reducing KMnO4 .....<=20 ppm(5m)

Code	Size	Packaging	Notes
436903	1l	Glass bottle	
436905	2,5l	Glass bottle	
436906	5l	Plastic tank	
436901	10l	Metal tank	
436902	21kg	Metal tank	
436908	150kg	Metal drum	

## Cyclohexane > RE-Pure

RE

Description .....Clear liquid Refractive index at 20°C .....1.4214 - 1.4314 Residue on evaporation .....<=50 ppm  
 Identification.....Positive Boiling point .....80 - 81 °C Assay (GLC).....>= 99.8 %  
 Density at 20° C.....0.774 - 0.784 Water (K.F.) .....<=150 ppm

Code	Size	Packaging	Notes
333752	1l	Glass bottle	
333751	2,5l	Glass bottle	
528215	5l	Plastic tank	
508235	10l	Metal tank	
528216	25l	Metal tank	
528217	200l	Metal drum	
333753	21kg	Metal tank	

## Cyclohexane-d12

C<sub>6</sub>D<sub>12</sub>  
 Molecular Weight 96,07  
 CAS : 1735-17-7  
 EEC-N : 217-077-3



Danger

2.6/2; H225-3.10/1; H304-4.1.C/1; H410-3.2/2; H315-3.8/3; H336  
 P210-P241-P304+P340-P403+P235-P405-P501a

## Cyclohexane-d12 > RS-For NMR-min 99.5%

RS

Code	Size	Packaging	Notes
P5151A	1ml	Glass ampoule	

## Cyclohexanol

CH<sub>2</sub>(CH<sub>2</sub>)<sub>4</sub>CHOH  
 Molecular Weight 100  
 CAS : 108-93-0  
 EEC-N : 203-630-6



Warning

3.1.O/4; H302-3.1.I/4; H332-3.2/2; H315-3.8/3; H335  
 P261-P271-P280-P304+P340-P405-P501a

## Cyclohexanol > RE-Pure

RE

Description .....Clear colourless liquid Refractive index at 20°C .....1.4600 - 1.4670 Assay (GLC).....>=98 %  
 Identification.....Positive Residue on evaporation .....<=0.1 %


Code	Size	Packaging	Notes
333801	1l	Glass bottle	



## Cyclohexanone

CH<sub>2</sub>(CH<sub>2</sub>)<sub>4</sub>CO  
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**  
2.6/3; H226-3.1.1/4; H332  
P210-P241-P243-P304+P340-P403+P235-P501a

C

## Cyclohexanone &gt; RPE-For analysis

RPE

Description .....Clear colourless liquid    Refractive index at 20°C .....1.4477 - 1.4537    Residue on evaporation .....<=500 ppm    Heavy metals (Pb) .....<=2 ppm  
Identification.....Positive    Boiling point .....152 - 157 °C    Aldehydes(Formaldehyde).....<= 0.1 %    Fe.....<=10 ppm  
Density at 20° C.....0.941 - 0.951    Water (K.F.).....<=0.1 %    Cyclohexanol .....<= 0.1 %    Assay (GLC).....>=99.5 %

Code	Size	Packaging	Notes
437053	1l	Glass bottle	
437052	2,5l	Glass bottle	
437051	5l	Plastic tank	
437055	25kg	Metal tank	

## Cyclohexanone &gt; RE-Pure

RE

Description .....Yellow clear liquid    Boiling point .....152 - 157 °C    Residue on evaporation.....<=500 ppm  
Identification.....Positive    Water (K.F.).....<=0.1 %    Assay (GLC).....>=99 %  
Density at 20° C.....0.941 - 0.951    Acidity(CyclohexilcarAc).....<=0.2 %  
Refractive index at 20°C .....1.4457 - 1.4557    Cyclohexanol .....<= 0.1 %


Code	Size	Packaging	Notes
333901	1l	Glass bottle	
333905	5l	Aluminium can	
528332	200l	Metal drum	
333902	26kg	Metal tank	

## Cyclohexylamine

Synonym : Aminocyclohexane

CH<sub>2</sub>(CH<sub>2</sub>)<sub>4</sub>CHNH<sub>2</sub>  
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**  
3.2/1B; H314-2.6/3; H226-3.7/2; H361f-3.1.O/4; H302-3.1.D/4; H312  
P210-P241-P304+P340-P305+P351+P338-P403+P235-P405-P501a

## Cyclohexylamine &gt; RPE-For analysis


RPE

Description .....Clear colourless liquid    Refractive index at 20°C .....1.4572 - 1.4612    Assay (alkalimetric).....>=99 %  
Identification.....Positive    Boiling point .....134.0 - 135.0 ° C  
Density at 20° C.....0.864 - 0.870    Residue on ignition .....<=50 ppm

Code	Size	Packaging	Notes
437104	1l	Glass bottle	

## Cyclohexylbutyric acid

CH<sub>2</sub>(CH<sub>2</sub>)<sub>4</sub>CH(CH<sub>2</sub>)<sub>3</sub>CO<sub>2</sub>H  
Molecular Weight 170,25  
CAS : 4441-63-8  
EEC-N : 224-665-3

 **Warning**  
3.2/2; H315-3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

## Cyclohexylbutyric acid &gt; RPE-For analysis

RPE

Description .....Semitransparent white crystals    Heavy metals (Pb) .....<=10 ppm    Fe.....<=10 ppm  
Identification.....Positive    Residue on ignition .....<=100 ppm    Assay (GLC).....99 - 100 %

Code	Size	Packaging	Notes
403641	5g	Glass bottle	

## Cyclopentyl methyl ether

C<sub>6</sub>H<sub>12</sub>O  
Molecular Weight 100,16  
CAS : 5614-37-9

**Classification transport**  
ONU: 3271

**Danger**

2.6/2; H225-3.1.O/4; H302-3.2/2; H315-3.3/2; H319  
P210-P305+P351+P338-P403+P235-P501a

## Cyclopentyl methyl ether &gt; RE-Pure-For synthesis

**RE**

Refractive index at 20°C .....1.4199 - 1.4219 Colour .....<= 10 Hazen Peroxides .....<= 50 meq/Kg  
Water content (K.F.).....<= 100 mg/Kg Assay (GC).....>= 99.9 %

Code	Size	Packaging	Notes
P8010216	1l	Glass bottle	
P8010229	5l	Plastic tank	

## p-Cymene

Synonyms : 4-Isopropyltoluene  
1-Isopropyl-4-methylbenzene

CH<sub>3</sub>C<sub>6</sub>H<sub>4</sub>CH(CH<sub>3</sub>)<sub>2</sub>  
Molecular Weight 134,22  
CAS : 99-87-6  
EEC-N : 202-796-7

**Classification transport**  
ONU: 2046  
Transport Hazard class: 3  
Packing group III

**Warning**

2.6/3; H226  
P210-P241-P243-P303+P361+P353-P403+P235-P501a

## p-Cymene &gt; RE-Pure

**RE**

Description.....Yellow clear liquid Density at 20° C.....0.853 - 0.861 Residue on ignition .....<=10 ppm  
Identification.....Positive Refractive index at 20°C .....1.4884 - 1.4924 Total sulphur .....<=20 ppm  
Alcohol miscibility.....Complete Boiling point .....176.5 - 177.5 ° C Assay (GLC).....>=97 %  
Diethyl ether miscib.....Complete Water (K.F.) .....<=100 ppm

Code	Size	Packaging	Notes
437151	100ml	Glass bottle	

## L-Cysteine

HSCH<sub>2</sub>CH(NH<sub>2</sub>)COOH  
Molecular Weight 121,16  
CAS : 52-90-4  
EEC-N : 200-158-2

**Warning**

3.1.O/4; H302-3.1.D/4; H312  
P280-P312-P330-P363-P301+P312-P501a

## L-Cysteine &gt; RPE-For analysis

**RPE**

Description.....White powder Loss on drying .....<= 0.5 % Residue on ignition .....<= 0.1 %  
Identification.....Positive Chloride .....<= 400 ppm Sulphate .....<= 300 ppm  
Specific optical rotation .....+8 - +9.5 ° Heavy metals (Pb) .....<= 10 ppm Assay (iodometric) .....>= 99.0 % (s.s.)

Code	Size	Packaging	Notes
437308	5g	Glass bottle	

## L-Cystine

[S-CH<sub>2</sub>CH(NH<sub>2</sub>)CO<sub>2</sub>H]<sub>2</sub>  
Molecular Weight 240,3  
CAS : 56-89-3  
EEC-N : 200-296-3

**Danger**

3.1.O/3; H301-3.2/2; H315-3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

## L-Cystine &gt; RPE-For analysis

**RPE**

Description.....White crystalline powder Ammonium .....<= 200 ppm Residue on ignition .....<= 0.1 %  
Identification.....Positive Chloride .....<= 200 ppm Fe.....<= 10 ppm  
Loss on drying .....<= 0.5 % Sulphate .....<= 300 ppm Assay (acidimetric) .....>= 98.5 %  
Specific optical rotation (C=2; HCl 1M).....-209 - -224 ° (s.s.) Heavy metals (Pb) .....<= 10 ppm

Code	Size	Packaging	Notes
437351	10g	Glass bottle	
437355	100g	Glass bottle	

## Decalcifying agent

## ▶ Decalcifying agent &gt; RS-For histology

RS

Description .....Clear colourless liquid Assay EDTA Na2 (mom. preparaz.) .....>= 0.26 % (p/p)  
 Identification.....Positive Assay HCl (mom. preparaz.).....>= 2.21 % (p/p)

Code	Size	Packaging	Notes
441221	1l	Glass bottle	

## Decane

CH<sub>3</sub>(CH<sub>2</sub>)<sub>8</sub>CH<sub>3</sub>  
 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

3.10/1; H304-2.6/3; H226  
 P210-P241-P301+P310-P403+P235-P405-P501a

## ▶ Decane &gt; RE-Pure-For synthesis

RE

Refractive index at 20°C .....1.408 - 1.412 Colour .....<= 10 Hazen Assay (GC).....>= 99 %

Code	Size	Packaging	Notes
P0093016	1l	Glass bottle	

## Deniges' reagent

## Classification transport

ONU: 2922  
 Transport Hazard class: 8  
 Packing group II



## Danger

3.1.1/3; H331-3.2/1A; H314-3.9/2; H373-3.1.0/4; H302-4.1.C/2; H411  
 P260-P261-P304+P340-P305+P351+P338-P405-P501a

## ▶ Deniges' reagent &gt; RS-For acetone test

RS

Description .....Clear colourless liquid Identification.....Positive

Code	Size	Packaging	Notes
441281	500ml	Glass bottle	

## Detergents

Ausilab 101 .....57 Ausilab 201 .....57 Ausilab 208 .....57  
 Ausilab 104 .....57 Ausilab 205 .....57 Ausilab 300 .....57

## Detergent DNS

## Classification transport

ONU: 2206  
 Transport Hazard class: 6.1  
 Packing group III



## Danger

3.3/1; H318-3.1.0/4; H302-3.2/2; H315-4.1.C/3; H412  
 P280-P305+P351+P338-P330-P332+P313-P362-P501a

## ▶ Detergent DNS &gt; RE-Detergent

RE

Description .....Yellow clear liquid Residue at 105°C .....25.0 - 29.0 % Surface-active agent .....7.0 - 9.0 %  
 pH of the substance .....11.0 - 12.0 Residue at 900°C .....14.0 - 18.0 % Free alkalinity (KOH) .....Absent  
 Density at 20° C .....1.15 - 1.19 g/ml Poliphosphates .....10.0 - 14.0 % Residue on filtration .....<=100 ppm

Code	Size	Packaging	Notes
336891	220kg	Plastic drum	

## Deuterium oxide-d

D<sub>2</sub>O  
Molecular Weight 20,03  
CAS : 7789-20-0  
EEC-N : 232-148-9

## D ▶ Deuterium oxide-d &gt; RS-For NMR-min 99.8%

RS

Code	Size	Packaging	Notes
P5160	10x0,6ml	Glass ampoule	
P5169	10x0,75ml	Glass ampoule	
P5164	5x10ml	Glass bottle	
P5165	25ml	Glass bottle	
P5165S	25ml	Bottle with sept	
P5166	100ml	Glass bottle	
P5168	1l	Glass bottle	

## ▶ Deuterium oxide-d &gt; RS-For NMR—min 99.98%

RS

Code	Size	Packaging	Notes
P5179	10x0,75ml	Glass ampoule	
P5175	25ml	Bottle with sept	

## Deuterium oxide-d + 0.01% DMSO

D<sub>2</sub>O  
Molecular Weight 20,03  
CAS : 7789-20-0  
EEC-N : 232-148-9

## ▶ Deuterium oxide-d + 0.01% DMSO &gt; RS-For NMR—min 99.98%

RS

Code	Size	Packaging	Notes
P5170D	10x0,6ml	Glass ampoule	
P5173D	5x2ml	Glass ampoule	

Deuterium oxide-d + 0.5% TSP d<sub>4</sub>

D<sub>2</sub>O  
Molecular Weight 20,03  
CAS : 7789-20-0  
EEC-N : 232-148-9

▶ Deuterium oxide-d + 0.5% TSP d<sub>4</sub> > RS-For NMR-min 99.9%

RS

Code	Size	Packaging	Notes
P5161T	10x0,6ml	Glass ampoule	

Deuterium oxide-d + 0.03% TSP d<sub>4</sub>

D<sub>2</sub>O  
Molecular Weight 20,03  
CAS : 7789-20-0  
EEC-N : 232-148-9

▶ Deuterium oxide-d + 0.03% TSP d<sub>4</sub> > RS-For NMR-min 99.8%

RS

Code	Size	Packaging	Notes
P5160T	10x0,6ml	Glass ampoule	

## Devarda's alloy

CAS : 8049-11-04

## Classification transport

ONU: 3132



Danger

2.12/2; H261-2.7/2; H228-4.1.C/2; H411  
P210-P241-P231+P232-P335+P334-P402+P404-P501a

## Devarda's alloy &gt; RPE-For analysis

RPE

Description.....Greyish metallic powder N.....>=0.005 % Cu.....>=50 %  
 Identification.....Positive Al.....>=45 % Zn.....>=5 %

Code	Size	Packaging	Notes
457625	250g	Glass bottle	
457627	1kg	Plastic bottle	

## Dextrin

(C<sub>6</sub>H<sub>10</sub>O<sub>5</sub>)<sub>n</sub>  
 Molecular Weight (162,14)N  
 CAS : 9004-53-9  
 EEC-N : 232-675-4

## Dextrin &gt; RE-Pure

RE

Description.....White yellowish powder Loss on drying.....<=11 % Residue on ignition.....<=0.1 %  
 Identification.....Positive Acidity(Sulphuric acid).....<=0.3 % Red.sugars(Dextrose).....<=4 %

Code	Size	Packaging	Notes
441467	1kg	Plastic bottle	

## Diacetone alcohol

(CH<sub>3</sub>)<sub>2</sub>C(OH)CH<sub>2</sub>COCH<sub>3</sub>  
 Molecular Weight 116  
 CAS : 123-42-2  
 EEC-N : 204-626-7

## Classification transport

ONU: 1148  
 Transport Hazard class: 3  
 Packing group III



Warning

2.6/3; H226-3.3/2; H319  
P210-P241-P243-P305+P351+P338-P403+P235-P501a

## Diacetone alcohol &gt; RPE-For analysis

RPE

Description.....Yellow clear liquid Density at 25° C.....0.927 - 0.935 Acidity (acetic acid).....<= 100 ppm Assay (GLC).....>= 99 %  
 Identification.....Positive Refractive index at 20°C.....1.4212 - 1.4272 Alkalinity (NH<sub>3</sub>).....<= 10 ppm  
 Water miscibility.....Conform Water (K.F.).....<= 0.1 % Heavy metals (Pb).....<= 2 ppm  
 Alcohol miscibility.....Conform Residue on evaporation.....<= 50 ppm Fe.....<= 1 ppm

Code	Size	Packaging	Notes
441771	250ml	Glass bottle	
441774	1l	Glass bottle	

## Diacetone alcohol &gt; RE-Pure

RE

Description.....Yellow clear liquid Refractive index at 20°C.....1.4192 - 1.4292 Acidity (acetic acid).....<= 100 ppm  
 Identification.....Positive Water (K.F.).....<= 0.3 % Assay (GLC).....>= 98 %  
 Density at 25° C.....0.926 - 0.936 Residue on evaporation.....<= 100 ppm

Code	Size	Packaging	Notes
337001	1l	Glass bottle	
337004	2,5l	Glass bottle	
337002	18kg	Metal tank	

Product specifications are subject to changes.  
 Please visit our website for updates.

# DIA

## Diacetyldioxime

Synonyms : *Dimethylglyoxime*  
*2,3-Butanedione dioxime*

CH<sub>3</sub>C:NOHC:NOHCH<sub>3</sub>  
Molecular Weight 116,12  
CAS : 95-45-4  
EEC-N : 202-420-1



**Warning**

3.1.O/4; H302  
P264-P270-P330-P301+P312-P501a

D

### Diacetyldioxime > RPE-For analysis-ACS

RPE

Description .....White crystalline powder      Suitability for Ni det. ....Conform  
Identification.....Positive      Melting point .....239 - 241 °C      Alcohol-insolub. matter .....<= 0.05 %  
Melting point .....239 - 241 °C

Code	Size	Packaging	Notes
441553	50g	Glass bottle	

Reagent for the spectrophotometric determination of: *Co (III), Fe (II), Ni (II), Pd (II)*.

## Diacetyldioxime sodium salt

CH<sub>3</sub>C(=NONa)C(=NONa)CH<sub>3</sub>.8H<sub>2</sub>O  
Molecular Weight 304,09  
CAS : 75006-64-3  
EEC-N : 262-523-2



**Warning**

3.1.O/4; H302  
P264-P270-P330-P301+P312-P501a

### Diacetyldioxime sodium salt > RPE-For analysis

RPE

Description .....White powder      Loss on drying .....45.8 - 49.0 %      Sulphate .....<=50 ppm  
Identification.....Positive      Chloride .....<=50 ppm      Assay (gravimetric) .....>= 98.5 %  
Suitability for Ni det. ....Conform      Water-insoluble matter .....<=50 ppm

Code	Size	Packaging	Notes
441623	50g	Glass bottle	
441625	250g	Plastic bottle	

For precipitation of metals.

## Diacetyldioxime solution 1% in ethanol

CH<sub>3</sub>C:NOHC:NOHCH<sub>3</sub>  
CAS : 95-45-4

**Classification transport**

ONU: 1170  
Transport Hazard class: 3  
Packing group II



**Danger**

2.6/2; H225  
P210-P241-P243-P303+P361+P353-P403+P235-P501a

### 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	500ml	Glass bottle	

Indicator for determining metals.

## Dibenzoyl peroxide

(C<sub>6</sub>H<sub>5</sub>CO)<sub>2</sub>O<sub>2</sub>  
Molecular Weight 242,22  
CAS : 94-36-0  
EEC-N : 202-327-6

**Classification transport**

ONU: 3104  
Transport Hazard class: 5.2



**Danger**

2.15/B; H241-3.3/2; H319-3.4.S/1; H317  
P210-P261-P280-P305+P351+P338-P410-P501a

### Dibenzoyl peroxide > RE-Pure

RE

Description.....White granular powder      Identification.....Positive      Assay (oxidimetric) .....>= 62.4 %

Code	Size	Packaging	Notes
427345	250g	Plastic bottle	
427347	1kg	Plastic bottle	

## Dibenzoylmethane

Synonym : 1,3-Diphenyl-1,3-propanedione

(C<sub>6</sub>H<sub>5</sub>CO)<sub>2</sub>CH<sub>2</sub>  
 Molecular Weight 224,26  
 CAS : 120-46-7  
 EEC-N : 204-398-9

## Dibenzoylmethane &gt; 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	25g	Glass bottle	

## L-Dibenzoyltartaric acid anhydrous

HOOC(CHOOCOC<sub>6</sub>H<sub>5</sub>)<sub>2</sub>COOH  
 Molecular Weight 358,32  
 CAS : 2743-38-6  
 EEC-N : 220-374-0



Warning

3.3/2; H319  
 P280-P264-P305+P351+P338-P337+P313

## L-Dibenzoyltartaric acid anhydrous &gt; RE-Pure

RE

Description .....White powder Residue on ignition .....<=0.1 % Assay (acidimetric) .....>=98 %  
 Identification.....Positive Heavy metals (Pb).....<=10 ppm  
 Specific optical rotation.....-113 - -117 ° Fe.....<=10 ppm

Code	Size	Packaging	Notes
303122	1kg	Plastic bottle	

## 2,4'-Dibromoacetophenone

BrC<sub>6</sub>H<sub>4</sub>COCH<sub>2</sub>Br  
 Molecular Weight 277,94  
 CAS : 99-73-0  
 EEC-N : 202-783-6

## Classification transport

ONU: 2811  
 Transport Hazard class: 6.1  
 Packing group II



Warning

3.2/2; H315-3.3/2; H319-3.8/3; H335  
 P261-P271-P304+P340-P305+P351+P338-P405-P501a

## 2,4'-Dibromoacetophenone &gt; RPE-For analysis

RPE

Description.....A fine yellow-green Identification.....Positive Assay .....>= 97.5 %

Code	Size	Packaging	Notes
430361	10g	Glass bottle	

## Dicalite 4158

CAS : 93763-70-3

## Dicalite 4158 &gt; RE-For filtration

RE


Permeability (PRFv) .....90 - 165 Wet cake density.....<= 13.6 lbs/ft<sup>3</sup> Float.....<= 30 ml/20g

Code	Size	Packaging	Notes
P8880014	500g	Plastic bottle	
P8880017	1kg	Plastic bottle	
P8880027	5kg	Plastic bucket	

## Dichloroacetic acid

CHCl<sub>2</sub>COOH  
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**  
3.2/1A; H314-4.1.A/1; H400  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

### Dichloroacetic acid > RPE-For analysis

**RPE**

Description .....Clear liquid Colour .....<= 50 APHA Refractive index at 20°C .....1.4648 - 1.4668  
Identification.....Positive Density at 20° C.....1.562 - 1.572 Assay (acidimetric).....99.0 - 101.0 %

Code	Size	Packaging	Notes
405101	250ml	Glass bottle	
405103	1l	Glass bottle	
405104	35kg	Plastic tank	

### Dichloroacetic acid > RE-Pure

**RE**

Description .....Clear liquid Freezing point.....>= 12 °C Assay (acidimetric) .....>= 99 %  
Identification.....Positive Water (K.F).....<= 0.3 %


Code	Size	Packaging	Notes
303151	1l	Glass bottle	

## m-Dichlorobenzene

Synonym : 1,3-Dichlorobenzene

C<sub>6</sub>H<sub>4</sub>Cl<sub>2</sub>  
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**  
3.1.O/4; H302-4.1.C/2; H411  
P273-P264-P270-P330-P301+P312-P501a

### m-Dichlorobenzene > RPE-For analysis

**RPE**

Description .....Colourless or yellowish liquid Refractive index at 20°C .....1.5435 - 1.5485 Assay (GLC).....>= 99 %  
Identification.....Positive Boiling point .....171 - 173 °C  
Density at 20° C.....1.283 - 1.293 Residue on ignition .....<= 100 ppm


Code	Size	Packaging	Notes
442353	100ml	Glass bottle	

## o-Dichlorobenzene

Synonym : 1,2-Dichlorobenzene

C<sub>6</sub>H<sub>4</sub>Cl<sub>2</sub>  
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**  
4.1.A/1; H400-4.1.C/1; H410-3.1.O/4; H302-3.2/2; H315-3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

### o-Dichlorobenzene > RPE-For analysis

**RPE**

Description .....Clear liquid Refractive index at 20°C .....1.5450 - 1.5520 Acidity (HCl) .....<=50 ppm  
Identification.....Positive Water (K.F) .....<=500 ppm Free chlorine .....<=1 ppm  
Density at 20° C.....1.299 - 1.311 Residue on evaporation.....<=50 ppm Assay (GLC).....>=99 %

Code	Size	Packaging	Notes
442301	500ml	Glass bottle	

### o-Dichlorobenzene > RE-Pure

**RE**

Description .....Clear liquid Identification.....Positive Assay (GLC).....>=98 %

Code	Size	Packaging	Notes
337251	1l	Glass bottle	




## p-Dichlorobenzene

Synonym : 1,4-Dichlorobenzene

C<sub>6</sub>H<sub>4</sub>Cl<sub>2</sub>  
Molecular Weight 147  
CAS : 106-46-7  
EEC-N : 203-400-5

**Classification transport**  
ONU: 3077  
Transport Hazard class: 9  
Packing group III

 **Warning**  
3.6/2; H351-4.1.A/1; H400-4.1.C/1; H410-3.3/2; H319  
P280-P305+P351+P338-P308+P313-P337+P313-P405-P501a

### p-Dichlorobenzene > RPE-For analysis

RPE

Description.....White crystals Melting point .....52.0 - 54.0 ° C Assay (GLC).....>=99 %  
Identification.....Positive Residue on ignition .....<=500 ppm

Code	Size	Packaging	Notes
442406	500g	Plastic bottle	

### p-Dichlorobenzene > RE-Pure

RE


Description.....White crystals Melting point .....52 - 56 ° C  
Identification.....Positive Assay (GLC).....>= 96.0 %

Code	Size	Packaging	Notes
337307	1kg	Plastic bottle	
337303	25kg	Fibre drum	

## 1,2-Dichlorobenzene-d4

C<sub>6</sub>D<sub>4</sub>Cl<sub>2</sub>  
CAS : 2199-69-1

**Classification transport**  
ONU: 1591  
Transport Hazard class: 6.1  
Packing group III

 **Warning**  
4.1.A/1; H400-4.1.C/1; H410-3.1.O/4; H302-3.2/2; H315-3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

### 1,2-Dichlorobenzene-d4 > RS-For NMR-min 99%

RS


Code	Size	Packaging	Notes
P5533A	5mL	Glass ampoule	

## 1,2-Dichloroethane

Synonym : Ethylene chloride

CH<sub>2</sub>ClCH<sub>2</sub>Cl  
Molecular Weight 98,96  
CAS : 107-06-2  
EEC-N : 203-458-1

**Classification transport**  
ONU: 1184  
Transport Hazard class: 3  
Packing group II

 **Danger**  
2.6/2; H225-3.6/1B; H350-3.1.O/4; H302-3.2/2; H315-3.3/2; H319-3.8/3; H335-A26  
P210-P241-P304+P340-P305+P351+P338-P403+P235-P405-P501a

### 1,2-Dichloroethane > RS-For HPLC Isocratic

RS

Clear, colourless liq. appearance.....Conform Water content (K.F.).....<= 100 mg/Kg At 250 nm .....>= 78 % Assay (GC).....>= 99.8 %  
Identification.....Conform **U.V. Transmittance** At 225 nm .....>= 90 % Non volatile residue .....<= 5 mg/Kg  
Colour .....<= 10 Apha At 240 nm .....>= 20 % At 260 nm .....>= 98 %  
Refractive index at 20°C .....1.443 - 1.447 At 245 nm .....>= 55 % Free acid (as HCl) .....<= 5 mg/Kg

Code	Size	Packaging	Notes
447191	1l	Glass bottle	

### 1,2-Dichloroethane > RS-SPECTROSOL - For optical spectroscopy

RS

Clear, colourless liq. appearance.....Conform **U.V. Transmittance** At 250 nm .....>= 95 % Non volatile residue .....<= 5 mg/Kg  
Refractive index at 20°C .....1.443 - 1.447 At 225 nm .....>= 10 % At 260 nm .....>= 99 %  
Water content (K.F.) .....<= 100 mg/Kg At 230 nm .....>= 50 % Free acid (as HCl) .....<= 5 mg/Kg  
Colour .....<= 10 Hazen At 240 nm .....>= 90 % Assay (GC).....>= 99.8 %

Code	Size	Packaging	Notes
P0282716	1l	Glass bottle	

## 1,2-Dichloroethane > RS-Anhydrous-For analysis

**RS**

Refractive index at 20°C ..... 1.443 - 1.447    Non volatile residue ..... <= 10 mg/Kg    Free acid (as HCl) ..... <= 5 mg/Kg  
 Water content (K.F.) ..... <= 100 mg/Kg    Colour ..... <= 10 Hazen    Assay (GC) ..... >= 99.8 %

Code	Size	Packaging	Notes
P0281010	200ml	Bottle with sept	
P0281016	1l	Glass bottle	
P0281021	2,5l	Glass bottle	

## 1,2-Dichloroethane > RPE-For analysis-ACS-Reag.Ph.Eur.-Reag.USP

**RPE**

Description ..... Clear liquid    Distillation range (>= 95%) ..... 82 - 84 °C    Total phosphorus ..... <=0.5 ppm    K ..... <=0.2 ppm  
 Colour ..... <=10 APHA    Acidity ..... <=0.0003 meq/g    Total silicon ..... <=0.05 ppm    Mg ..... <=0.1 ppm  
 Identification ..... Positive    Water (K.F.) ..... <=200 ppm    Total sulphur ..... <=0.5 ppm    Na ..... <=0.5 ppm  
 Density at 20° C ..... 1.248 - 1.264    Residue on evaporation ..... <=10 ppm    Ca ..... <=0.5 ppm    Pb ..... <=0.02 ppm  
 Refractive index at 20°C ..... 1.4418 - 1.4478    Free chlorine ..... <=1 ppm    Cu ..... <=0.05 ppm    Zn ..... <=0.2 ppm  
 Boiling point ..... 83.0 - 84.0 ° C    Subst. reducing KMnO4 ..... <=10 ppm    Fe ..... <=0.1 ppm    Assay (GLC) ..... >=99.8 %

Code	Size	Packaging	Notes
447121000	1l	Glass bottle	
447122000	5l	Plastic tank	

## 1,2-Dichloroethane > RE-Pure

**RE**

Description ..... Clear liquid    Colour ..... <=20 APHA    Residue on evaporation ..... <= 50 ppm  
 Identification ..... Positive    Water (K.F.) ..... <=300 ppm    Acidity (HCl) ..... <= 10 ppm  
 Refractive index at 20°C ..... 1.4398 - 1.4498    Assay (GLC) ..... >=99.8 %

Code	Size	Packaging	Notes
340151	1l	Glass bottle	
P0280228	5l	Plastic tank	
340155	34kg	Metal tank	

## 2',7'-Dichlorofluorescein

C<sub>20</sub>H<sub>10</sub>O<sub>5</sub>Cl<sub>2</sub>  
 Molecular Weight 401,21  
 CAS : 76-54-0  
 EEC-N : 200-968-6


**Warning**

3.2/2; H315-3.3/2; H319-3.8/3; H335  
 P261-P271-P304+P340-P305+P351+P338-P405-P501a

## 2',7'-Dichlorofluorescein > RPE-For analysis

**RPE**

Description ..... Ochre powder    Absorption max. (in NaOH 0.1N) ..... 501 - 503 nm    Ni ..... <= 50 ppm  
 Identification ..... Positive    Cu ..... <= 50 ppm    Pb ..... <= 50 ppm  
 Loss on drying (110°C) ..... <= 5 %    Fe ..... <= 50 ppm

Code	Size	Packaging	Notes
442541	10g	Glass bottle	

## Dichloromethane

Synonym : Methylene chloride

CH<sub>2</sub>Cl<sub>2</sub>  
 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**

3.6/2; H351  
 P281-P201-P202-P308+P313-P405-P501a

## Dichloromethane > RS-For HPLC Isocratic-Stabilized with amylene

**RS**

Description ..... Clear colourless liquid    Boiling point ..... 39.6 - 40.1 ° C    Assay (GLC) ..... >=99.9 %    At 250 nm ..... >=96 %  
 Identification ..... Positive    Acidity or alkalinity ..... <=0.0001 meq/g    U.V. Transmittance    At 260 nm ..... >=99 %  
 Density at 20° C ..... 1.322 - 1.328    Water (K.F.) ..... <=100 ppm    At 235 nm ..... >= 40 %    Amylene ..... <= 60 ppm  
 Refractive index at 20°C ..... 1.4214 - 1.4274    Residue on evaporation ..... <=2 ppm    At 240 nm ..... >=70 %

Code	Size	Packaging	Notes
412621000	1l	Glass bottle	
412622000	2,5l	Glass bottle	

► **Dichloromethane > RS-For HPLC Isocratic-Stabilized with ethanol**

Description .....	Clear colourless liquid	Acidity (formic acid) .....	<= 5 ppm	<b>U.V. Transmittance</b>	At 260 nm .....	>= 99 %
Identification .....	Positive	Residue on evaporation .....	<= 5 ppm	At 235 nm .....	Assay (GLO) .....	>= 99.9 %
Boiling point .....	39.55 - 40.05 °C	Ethanol .....	0.1 - 0.4 %	At 240 nm .....	Filtered at 0.2 µm .....	
Density at 20°C .....	1.322 - 1.328	Water (K.F.) .....	<= 100 ppm	At 245 nm .....		
Refractive index at 20°C .....	1.4214 - 1.4274			At 255 nm .....		

Code	Size	Packaging	Notes
412662	1l	Glass bottle	
412661	2,5l	Glass bottle	

► **Dichloromethane > RS-For HPLC preparative-Stabilized with amylene**

Description .....	Clear colourless liquid	Boiling point .....	39.6 - 40.1 °C	Assay (GLC) .....	>=99.5 %	Amylene .....	20 - 60 ppm
Identification .....	Positive	Water (K.F.) .....	<=500 ppm	<b>U.V. Transmittance</b>			
Density at 20° C .....	1.322 - 1.328	Residue on evaporation .....	<=5 ppm	At 240 nm .....	>=50 %		
Refractive index at 20°C .....	1.4214 - 1.4274	Alcalinity .....	<=0.0002 meq/g	At 260 nm .....	>=98 %		

Code	Size	Packaging	Notes
463281	2,5l	Glass bottle	

► **Dichloromethane > RS-For HPLC preparative-Stabilized with ethanol**

Description .....	Clear colourless liquid	Refractive index at 20°C .....	1.4214 - 1.4274	Residue on evaporation .....	<= 5 ppm	At 260 nm .....	>= 98 %
Colour .....	<= 10 APHA	Boiling point .....	39.3 - 40.3 °C	Assay (GLO) .....	>= 99.5 %	Filtered at 0.2 µm .....	
Identity (IR) .....	Positive	Alcalinity (NH3) .....	<= 5 ppm	<b>U.V. Transmittance</b>			
Density at 20°C .....	1.322 - 1.328	Water (K.F.) .....	<= 500 ppm	At 240 nm .....	>= 50 %		

Code	Size	Packaging	Notes
463291	2,5l	Glass bottle	

► **Dichloromethane > RS-ATRASOL- For trace analysis-Stabilized with amylene**

Refractive index at 20°C .....	1.422 - 1.426	Non volatile residue .....	<= 3 mg/Kg	GC-ECD.Individual peak (Lindane) .....	<= 2 ng/l
Water content (K.F.) .....	<= 100 mg/Kg	Carbon tetrachloride .....	<= 20 mg/Kg	<b>Retention time trichlorobenzene to mirex</b>	
Colour .....	<= 10 Hazen	Assay (GC) .....	>= 99.95 %	GC-FID.Individ. peak (hexadecane) .....	<= 5 µg/l
Free acid (as HCl) .....	<= 5 mg/Kg	Stabilizer (Amylene) .....	30 - 60 mg/Kg	<b>Retention time range over toluene</b>	
Chloroform .....	<= 50 mg/Kg	GC ( FID ) - NC Atrasol .....	Conform		

Code	Size	Packaging	Notes
P02932A16	1l	Glass bottle	
P02932A21	2,5l	Glass bottle	

► **Dichloromethane > RS-ATRASOL- For trace analysis -Stabilized with ethanol**

Refractive index at 20°C .....	1.422 - 1.426	Non volatile residue .....	<= 3 mg/Kg	GC-ECD.Individual peak (Lindane) .....	<= 2 ng/l
Water content (K.F.) .....	<= 100 mg/Kg	Carbon tetrachloride .....	<= 20 mg/Kg	<b>Retention time trichlorobenzene to mirex</b>	
Colour .....	<= 10 Hazen	Assay (GC) (without stabilizer) .....	>= 99.95 %	GC-FID.Individ. peak (hexadecane) .....	<= 5 µg/l
Free acid (as HCl) .....	<= 5 mg/Kg	Stabilizer (Ethanol) .....	0.1 - 0.4 % m/m	<b>Retention time range over toluene</b>	
Chloroform .....	<= 40 mg/Kg	GC ( FID ) - NC Atrasol .....	Conform		

Code	Size	Packaging	Notes
P02932E16	1l	Glass bottle	
P02932E21	2,5l	Glass bottle	

► **Dichloromethane > RS-PESTIPUR- For pesticide analysis-Stabilized with amylene**

Description .....	Clear liquid	Water .....	<= 0.01 %	GC-NPD (Ethylparathion standard) .....	<= 3 ng/l
Identification .....	Positive	Not volatile residue .....	<= 5 mg/kg	Stabilizer (Amylene) .....	30 - 50 mg/Kg
Colour .....	<= 10 hazen	Free acid (as HCl) .....	<= 5 mg/kg		
Assay (GLC) .....	>= 99.9 %	GC-ECD (Lindane standard) .....	<= 3 ng/l		

Code	Size	Packaging	Notes
442291	1l	Glass bottle	
442292000	2,5l	Glass bottle	

► **Dichloromethane > RS-PESTIPUR- For pesticide analysis-Stabilized with ethanol**

Refractive index at 20°C .....	1.422 - 1.426	Free acid (as HCl) .....	<= 5 mg/Kg	<b>Retention time trichlorobenzene to mirex</b>	
Water content (K.F.) .....	<= 100 mg/Kg	Non volatile residue .....	<= 5 mg/Kg	GC-NPD.Individual peak (Ethylparathion) .....	<= 3 ng/l
Colour .....	<= 10 Hazen	Assay (GC) (without stabilizer) .....	>= 99.9 %	<b>Retention time Atrazin to Coumaphos</b>	
Stabilizer (Ethanol) .....	0.1 - 0.4 % m/m	GC-ECD.Individual peak (Lindane) .....	<= 3 ng/l		

Code	Size	Packaging	Notes
442261	1l	Glass bottle	
442262	2,5l	Glass bottle	

## Dichloromethane > RS-SPECTROSOL-For optical spectroscopy - Stabilized with amylene

RS

Description .....	Clear colourless liquid	Water (K.F.).....	<=100 ppm	At 254 nm.....	<=2 ppb	At 250 nm.....	>=95 %
Colour.....	<=10 APHA	Residue on evaporation .....	<=5 ppm	At 365 nm.....	<=2 ppb	At 260 nm.....	>=99 %
Identification (I.R.).....	Positive	Acidity.....	<=0.0005 meq/g	<b>U.V. Transmittance</b>		Amylene.....	20 - 60 ppm
Density at 20° C.....	1.322 - 1.328	Alcalinity.....	<=0.0002 meq/g	At 235 nm.....	>=35 %	Stabilizer (Ethanol).....	0.1 - 0.4 %
Refractive index at 20°C.....	1.4214 - 1.4274	Assay (GLC).....	>=99.9 %	At 240 nm.....	>=70 %		
Boiling point .....	39.6 - 40.1 °C	<b>Fluorescence</b>		At 245 nm.....	>=90 %		

Code	Size	Packaging	Notes
442371	1l	Glass bottle	

## Dichloromethane > RS-SPECTROSOL-For optical spectroscopy - Stabilized with ethanol

RS

Description .....	Clear colourless liquid	Water (K.F.).....	<=100 ppm	At 254 nm.....	<=2 ppb	At 250 nm.....	>=95 %
Colour.....	<=10 APHA	Residue on evaporation .....	<=5 ppm	At 365 nm.....	<=2 ppb	At 260 nm.....	>=99 %
Identification (I.R.).....	Positive	Acidity.....	<=0.0005 meq/g	<b>U.V. Transmittance</b>		Stabilizer (Ethanol).....	0.1 - 0.4 %
Density at 20° C.....	1.322 - 1.328	Alcalinity.....	<=0.0002 meq/g	At 235 nm.....	>=35 %		
Refractive index at 20°C.....	1.4214 - 1.4274	Assay (GLC).....	>=99.9 %	At 240 nm.....	>=70 %		
Boiling point .....	39.6 - 40.1 °C	<b>Fluorescence</b>		At 245 nm.....	>=90 %		

Code	Size	Packaging	Notes
463025	1l	Glass bottle	

## Dichloromethane > RS-Anhydrous-For analysis-Stabilized with amylene

RS

Refractive index at 20°C.....	1.422 - 1.426	Colour.....	<= 10 Hazen	Free acid (as HCl).....	<= 3 mg/Kg
Water content (K.F.).....	<= 50 mg/Kg	Assay (GC).....	>= 99.95 %	Carbon tetrachloride.....	<= 20 mg/Kg
Non volatile residue .....	<= 10 mg/Kg	Stabilizer (Amylene).....	30 - 60 mg/Kg	Chloroform.....	<= 50 mg/Kg

Code	Size	Packaging	Notes
P02910A10	200ml	Bottle with sept	
P02910AT10	200ml	Bottle with sept	On molecular sieves 4A
P02910A16	1l	Glass bottle	
P02910AT16	1l	Glass bottle	On molecular sieves 4A
P02910A21	2,5l	Glass bottle	

## Dichloromethane > RS-Anhydrous-For analysis-Stabilized with ethanol

RS

Refractive index at 20°C.....	1.422 - 1.426	Colour.....	<= 10 Hazen	Free acid (as HCl).....	<= 3 mg/Kg
Water content (K.F.).....	<= 50 mg/Kg	Assay (GC) (without stabilizer).....	>= 99.95 %	Carbon tetrachloride.....	<= 20 mg/Kg
Non volatile residue .....	<= 10 mg/Kg	Stabilizer (Ethanol).....	0.1 - 0.4 mg/Kg	Chloroform.....	<= 40 mg/Kg

Code	Size	Packaging	Notes
P02910E10	200ml	Bottle with sept	With septum
P02910E16	1l	Glass bottle	
P02910E21	2,5l	Glass bottle	

## Dichloromethane > RS-RSE For electronic use-Stabilized with amylene

RS

Description .....	Clear liquid	Phosphate.....	<=0.5 ppm	Cr.....	<=0.01 ppm	Pt.....	<=0.05 ppm
Colour.....	<=10 APHA	Heavy metals (Pb).....	<=0.1 ppm	Cu.....	<=0.01 ppm	Sb.....	<=0.01 ppm
Identification.....	Positive	Ag.....	<=0.02 ppm	Fe.....	<=0.1 ppm	Sn.....	<=0.02 ppm
Density at 20° C.....	1.322 - 1.328	Al.....	<=0.05 ppm	Ga.....	<=0.02 ppm	Sr.....	<=0.02 ppm
Boiling point .....	39.6 - 40.1 °C	As.....	<=0.01 ppm	In.....	<=0.02 ppm	Ti.....	<=0.05 ppm
Resistivity.....	>=1 Mohm.cm	Au.....	<=0.05 ppm	K.....	<=0.1 ppm	Tl.....	<=0.05 ppm
Assay (GLC).....	>=99.5 %	B.....	<=0.01 ppm	Li.....	<=0.02 ppm	V.....	<=0.05 ppm
Water (K.F.).....	<=100 ppm	Ba.....	<=0.1 ppm	Mg.....	<=0.1 ppm	Zn.....	<=0.05 ppm
Residue on evaporation .....	<=5 ppm	Be.....	<=0.02 ppm	Mn.....	<=0.01 ppm	Zr.....	<=0.05 ppm
Acidity (HCl).....	<=10 ppm	Bi.....	<=0.02 ppm	Mo.....	<=0.05 ppm	Stabilized with amylene.....	20 - 60 ppm
Alcalinity (NH3).....	<=1 ppm	Ca.....	<=0.2 ppm	Na.....	<=0.2 ppm		
Chloride.....	<=0.5 ppm	Cd.....	<=0.01 ppm	Ni.....	<=0.01 ppm		
Free chlorine.....	<=0.2 ppm	Co.....	<=0.01 ppm	Pb.....	<=0.02 ppm		

Code	Size	Packaging	Notes
463161	2,5l	Glass bottle	

## Dichloromethane > RPE-For analysis-ACS-Reag. Ph.Eur.-Reag. USP-Stabilized with amylene

RPE

Description .....	Clear liquid	Boiling point .....	39.6 - 40.1 °C	Ba.....	<=0.1 ppm	Mn.....	<=0.02 ppm
Colour.....	<=10 APHA	Water (K.F.).....	<=100 ppm	Ca.....	<=0.5 ppm	Ni.....	<=0.02 ppm
Identification (I.R.).....	Conform	Residue on evaporation .....	<=10 ppm	Cd.....	<=0.05 ppm	Pb.....	<=0.1 ppm
Ready carbonizable substances.....	Conform	Acidity.....	<=0.0003 meq/g	Co.....	<=0.02 ppm	Sn.....	<=0.1 ppm
Alcohol miscibility.....	Complete	Amylene.....	20 - 60 ppm	Cr.....	<=0.02 ppm	Zn.....	<=0.1 ppm
Diethyl ether miscib.....	Complete	Chloride.....	<=1 ppm	Cu.....	<=0.02 ppm	Assay (GLC).....	>=99.9 %
Density at 20° C.....	1.322 - 1.328	Al.....	<=0.5 ppm	Fe.....	<=0.1 ppm	Free halogens.....	Conform
Refractive index at 20°C.....	1.4214 - 1.4274	B.....	<=0.02 ppm	Mg.....	<=0.1 ppm		

Code	Size	Packaging	Notes
463311	1l	Glass bottle	
463314	2,5l	Glass bottle	
463319	5l	Plastic tank	
524319	10l	Plastic tank	
524314	200l	Metal drum	
463315	35kg	Metal tank	

Dichloromethane > RPE-For analysis-ACS-Stabilized with ethanol

Description .....	Clear colourless liquid	Free chlorine .....	<= 0.1 ppm	Ba .....	<= 0.1 ppm	Mn .....	<= 0.02 ppm
Colour .....	<= 10 APHA	Identity (IR) .....	Positive	Ca .....	<= 0.5 ppm	Ni .....	<= 0.02 ppm
Density at 20°C .....	1.322 - 1.328	Read. carboniz. subs. ....	Conform	Cd .....	<= 0.05 ppm	Pb .....	<= 0.1 ppm
Refractive index at 20°C .....	1.4214 - 1.4274	Residue on evaporation .....	<= 10 ppm	Co .....	<= 0.02 ppm	Sn .....	<= 0.1 ppm
Boiling point .....	39.3 - 40.3 °C	Water (K.F.) .....	<= 100 ppm	Cr .....	<= 0.02 ppm	Cu .....	<= 0.1 ppm
Acidity (HCl) .....	<= 3 ppm	Assay (GLC) .....	>= 99.9 %	Cu .....	<= 0.02 ppm	Zn .....	<= 0.1 ppm
Chloride (Cl-) .....	<= 1 ppm	Al .....	<= 0.5 ppm	Fe .....	<= 0.1 ppm		
Ethyl alcohol .....	<= 0.2 %	B .....	<= 0.02 ppm	Mg .....	<= 0.1 ppm		

Code	Size	Packaging	Notes
463001	1l	Glass bottle	
463003	2,5l	Glass bottle	
463002	5l	Plastic tank	
463008	250kg	Metal drum	

Dichloromethane > ERBAPharm-According to pharmacopoeia: NF-stabilized with ethanol **ERBAPharm**

Description .....	Conform	Acidity .....	<= 10 ppm	Assay (GLC) .....	>= 99 %
Identification .....	Positive	Heavy metals (Pb) .....	<= 1 ppm	Ethanol .....	# 0,2 %
Density at 25°/25°C .....	1,318 - 1,322	Free chlorine .....	Conform USP-NF		
Residue on evaporation .....	<= 20 ppm ppm	Water (K.F.) .....	<= 200 ppm		

Code	Size	Packaging	Notes
354501	1l	Glass bottle	

Dichloromethane > ERBAPharm-According to pharmacopoeia: Ph.Eur.-NF-Stabilized with amylene **ERBAPharm**

Description .....	Clear colourless liquid	Acidity .....	Pass test Ph.Eur.	Assay (GLC) .....	>= 99.9 %
Colour .....	<= 10 APHA	Acidity (HCl) .....	<= 10 ppm	Amylene .....	20 - 60 ppm
Identification .....	Positive	Water (K.F.) .....	<= 200 ppm	Carbon tetrachloride .....	<= 10 ppm (v/v)
Appearance of solution .....	Clear colourless liquid Ph. Eur.	Residue on evaporation .....	<= 20 ppm	Chloroforme .....	<= 50 ppm (v/v)
Density at 20°C .....	1.320 - 1.332	Heavy metals (Pb) .....	<= 1 ppm	Origin (BSE/TSE) .....	Synthesis
Density at 25°C .....	1.318 - 1.322	Free chlorine .....	Conform USP-NF		
Refractive index at 20°C .....	1.423 - 1.425	Related substances (CPG) .....	<= 0.1 %		

Code	Size	Packaging	Notes
337331	1l	Glass bottle	
337333	2,5l	Glass bottle	
337335	25l	Metal tank	
337337	200l	Metal drum	

Dichloromethane > ERBAPharm-According to pharmacopoeia: Ph.Eur.-Stabilized with ethanol **ERBAPharm**

Description .....	Conform Ph.Eur.	Acidity .....	Conform Ph.Eur.	Assay (GLC) .....	>= 99.95 %
Colour .....	<= 10 APHA	Residue on evaporation .....	<= 10 ppm	Ethanol .....	<= 2.0 %
Identification .....	Positive Ph.Eur.	Water (K.F.) .....	<= 100 ppm	Amylene .....	<= 0.03 %
Appearance of solution .....	Clear colourless liquid Ph.Eur.	Free chlorine .....	Conform Ph.Eur.	Carbon tetrachloride .....	<= 10 ppm (v/v)
Density at 20°C .....	1.320 - 1.332	Heavy metals (Pb) .....	<= 1 ppm	Chloroforme .....	<= 50 ppm (v/v)
Refractive index at 20°C .....	1.423 - 1.425	Related compounds .....	<= 0.1 %		

Code	Size	Packaging	Notes
525320	2,5l	Glass bottle	
525321	200l	Metal drum	

Dichloromethane > RE-Pure- Stabilized with amylene **RE**

Description .....	Clear colourless liquid	Boiling point .....	39.1 - 40.6 °C	Assay (GLC) .....	>= 99.8 %
Colour .....	<= 10 APHA	Acidity (HCl) .....	<= 10 ppm	Amylene .....	20 - 60 ppm
Density at 20°C .....	1.320 - 1.330	Residue on evaporation .....	<= 20 ppm		
Refractive index at 20°C .....	1.4194 - 1.4294	Water (K.F.) .....	<= 200 ppm		

Code	Size	Packaging	Notes
528461	5l	Plastic tank	
528465	5l	Metal tank	
528464	10l	Plastic tank	
528463	25l	Metal tank	
528462	200l	Metal drum	

Product specifications are subject to changes.  
Please visit our website for updates.

## Dichloromethane > RE-Pure-Stabilized with ethanol

RE

Description	Clear colourless liquid	Boiling point	39,3-40,3 °C	Alcohol and ether miscibility	Complete
Colour	<10 APHA	Acidity (HCl)	<= 5 ppm	Assay (GLC)	>=99,8 %
Density at 20°C	1,32-1,33	Residue on evaporation	<=20 ppm	Ethanol (stab)	-0,2 %
Refractive index at 20°C	1,4194-1,4294	Water (K.F.)	<= 100 ppm		

Code	Size	Packaging	Notes
528377	2,5l	Glass bottle	
337315	5l	Metal tank	
528372	5l	Plastic tank	
528379	10l	Plastic tank	
528370	25l	Metal tank	
528371	200l	Metal drum	

## Dichloromethane > RE-Pure-Stabilized with cyclohexane

RE

Description	Clear colourless liquid	Refractive index at 20°C	1,4194 - 1,4294	Water (K.F.)	<= 500 ppm	Other impurities	<= 0,5 %
Colour	<= 10 APHA	Boiling point	39,0 - 40,5 °C	Methyl alcohol	<= 500 ppm	Cyclohexane	0,0165 - 0,0660 % (v/v)
Assay (GLC)	>= 99,5 %	Acidity	<= 1 %	Ethyl alcohol	<= 500 ppm		
Density at 20°C	1,320 - 1,330	Residue on evaporation	<= 5 ppm	Chloroform	<= 1 %		

Code	Size	Packaging	Notes
508370	1l	Glass bottle	
508374	5l	Plastic tank	

## Dichloromethane-d2

CD<sub>2</sub>Cl<sub>2</sub>  
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**  
3,6/2; H351  
P281-P201-P202-P308+P313-P405-P501a

## Dichloromethane-d2 > RS-For NMR-min 99.6%

RS

Code	Size	Packaging	Notes
P5330	10x0,6ml	Glass ampoule	
P5339	10x0,75ml	Glass ampoule	
P5334A	10ml	Glass ampoule	
P5335	25ml	Glass bottle	

## Dichloromethane acidified with 1% hydrochloric acid

CH<sub>2</sub>Cl<sub>2</sub>  
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**  
3,6/2; H351  
P281-P201-P202-P308+P313-P405-P501a

## Dichloromethane acidified with 1% hydrochloric acid > RS-For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611055901	100ml	Bottle	Ref Ph.Eur 1055901

## 2,6-Dichlorophenolindophenol sodium salt

NaOC<sub>6</sub>H<sub>4</sub>N:C<sub>6</sub>H<sub>2</sub>(Cl)<sub>2</sub>:0,5H<sub>2</sub>O  
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	Colouring interferences	Conform
Identification	Positive	Loss on drying 120° C	<=12 %

Code	Size	Packaging	Notes
442508	5g	Glass bottle	

For the determination of ascorbic acid

## 2,6-Dichloroquinone-4-chlorimide

CIN: CCH:CCICOCCL:CH  
 Molecular Weight 210,45  
 CAS : 101-38-2  
 EEC-N : 202-937-2



## Warning

3.2/2; H315-3.3/2; H319-3.8/3; H335  
 P261-P271-P304+P340-P305+P351+P338-P405-P501a

## 2,6-Dichloroquinone-4-chlorimide &gt; RPE-For analysis

RPE

Description .....Yellow orange powder Melting point .....65.0 - 67.0 ° C Phenol sensitivity .....>=1 µg/ml  
 Identification.....Positive Residue on ignition .....<=0.1 % Assay (argentimetric).....>=98 %

Code	Size	Packaging	Notes
442458	5g	Glass bottle	

For spectrophotometric determination of vitamin B6.

## n,n'-Dicyclohexylcarbodiimide

C<sub>6</sub>H<sub>11</sub>N:C:NC<sub>6</sub>H<sub>11</sub>  
 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

3.1.D/3; H311-3.3/1; H318-3.1.O/4; H302-3.4.S/1; H317  
 P261-P280-P305+P351+P338-P312-P405-P501a

## n,n'-Dicyclohexylcarbodiimide &gt; RPE-For analysis

RPE

Description .....Whitish or yellowish crystals Melting point .....34.0 - 37.0 ° C Assay (GC) .....>= 99.0% %  
 Identification.....Positive Residue on ignition .....<=100 ppm

Code	Size	Packaging	Notes
442175	10g	Glass bottle	

## Diethanolamine

Synonyms : Bis(2-hydroxyethyl)amine  
 2,2'-Iminodiethanol

(CH<sub>2</sub>OHCH<sub>2</sub>)<sub>2</sub>NH  
 Molecular Weight 105,14  
 CAS : 111-42-2  
 EEC-N : 203-868-0



## Danger

3.3/1; H318-3.9/2; H373-3.1.O/4; H302-3.2/2; H315  
 P260-P280-P305+P351+P338-P314-P330-P501a

## Diethanolamine &gt; RPE-For analysis

RPE

Description .....Clear colourless liquid Melting point .....27.8 - 28.3 ° C Triethanolamine.....<=0.5 %  
 Identification.....Positive Water (K.F.).....<=0.5 % Assay (alkalimetric).....>=99 %  
 Density at 30° C.....1.085 - 1.091 Monoethanolamine .....<=0.5 % Assay (GLC).....>=99 %  
 Refract. index at 30° C .....1.4723 - 1.4783 Residue on ignition .....<=50 ppm

Code	Size	Packaging	Notes
442554	100g	Glass bottle	
442557	1kg	Glass bottle	
442552	29kg	Metal tank	

## Diethanolamine &gt; ERBAPharm-According to pharmacopoeia: USP-NF

ERBAPharm

Description .....Clear colourless liquid Water (K.F.) .....<=0,15 % Origin (BSE/TSE) .....Synthesis  
 Identification.....Positive Triethanolamine.....<=1,0 % Residual solvents (CPMP/ICH/283/95) .....Conform  
 Refract. index at 30° C .....1.473 - 1.476 Assay (alkalimetric).....98,5-101,0 %

Code	Size	Packaging	Notes
337801	220kg	Metal drum	

Product specifications are subject to changes.  
 Please visit our website for updates.

# DIE

## Diethylamine

(C<sub>2</sub>H<sub>5</sub>)<sub>2</sub>NH  
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

2.6/2; H225-3.2/1A; H314-3.1.O/4; H302-3.1.D/4; H312-3.1.I/4; H332  
P210-P241-P304+P340-P305+P351+P338-P403+P235-P405+P501a

D

### Diethylamine > RPE-For analysis

RPE

Description .....Clear colourless liquid    Refractive index at 20°C .....1.3840 - 1.3900    Assay (GLC).....>=99 %  
Identification.....Positive    Boiling point .....55.8 - 56.8 ° C  
Density at 20° C.....0.705 - 0.708    Residue on evaporation.....<=50 ppm

Code	Size	Packaging	Notes
442756	1l	Glass bottle	

### Diethylamine > RE-Pure

RE

Description .....Clear colourless liquid    Assay (GLC).....>= 99 %    Density at 20°C.....0.705 - 0.708  
Identification.....Positive    Boiling point .....55.8 - 56.8 ° C  
Refractive index at 20°C .....1.3840 - 1.3900    Water (K.F.).....<= 0.2 %

Code	Size	Packaging	Notes
337501	1l	Glass bottle	

## Diethyl carbonate

(C<sub>2</sub>H<sub>5</sub>)<sub>2</sub>CO<sub>3</sub>  
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

2.6/3; H226  
P210-P241-P243-P303+P361+P353-P403+P235-P501a

### Diethyl carbonate > RPE-For analysis

RPE

Description .....Clear colourless liquid    Refractive index at 20°C .....1.3820 - 1.3870    Residue on evaporation .....<=20 ppm  
Identification.....Positive    Boiling point .....125.3 - 126.8 ° C    Chloride .....<=5 ppm  
Density at 20° C.....0.971 - 0.979    Water (K.F.) .....<=500 ppm    Assay (GLC).....99 - 100 %

Code	Size	Packaging	Notes
443056	1l	Glass bottle	

## Diethylene glycol

Synonyms : *Diglycol*  
*2-Hydroxyethyl ether*

(HOCH<sub>2</sub>CH<sub>2</sub>)<sub>2</sub>O  
Molecular Weight 106,12  
CAS : 111-46-6  
EEC-N : 203-872-2



### Warning

3.1.O/4; H302  
P264-P270-P330-P301+P312-P501a

### Diethylene glycol > RPE-For analysis

RPE

Description .....Clear colourless liquid    Refractive index at 20°C .....1.4450 - 1.4500    Assay (GLC).....>=98 %  
Identification.....Positive    Boiling point .....240 - 252 ° C  
Density at 20° C.....1.115 - 1.119    Water (K.F.).....<=0.3 %

Code	Size	Packaging	Notes
443255	1l	Glass bottle	
443253	2,5l	Glass bottle	
443252	25kg	Glass-polystyrene container	

Hygroscopic product. Store well sealed in a dry place



RE

## ▶ Diethylene glycol &gt; RE-Pure

Description .....Clear colourless liquid      Colour.....<=10 APHA      Assay (GLC).....>=99 %  
 Identification.....Positive      Boiling point .....240 - 252 °C      Water .....<=0.3 %  
 Density at 20° C.....1.112 - 1.122      Residue on ignition .....<=0.1 %

Code	Size	Packaging	Notes
346301	1l	Glass bottle	
346303	2,5l	Glass bottle	
346304	30kg	Metal tank	

## ▶ Diethylene glycol dimethyl ether

(CH<sub>3</sub>OCH<sub>2</sub>CH<sub>2</sub>)<sub>2</sub>O  
 Molecular Weight 134,18  
 CAS : 111-96-6  
 EEC-N : 203-924-4



Danger

3.7/1B; H360FD-2.6/3; H226-EUH019-A26  
 P210-P241-P308+P313-P403+P235-P405-P501a

## ▶ Diethylene glycol dimethyl ether &gt; RPE-For analysis

RPE

Description .....Clear colourless liquid      Density at 20° C.....0.942 - 0.950      Alkalinity (NH<sub>3</sub>).....<=0.85 ppm      Fe.....<=2 ppm  
 Identification.....Positive      Refractive index at 20°C .....1.4056 - 1.4096      Carbonyl Compounds (CO) .....<=500 ppm      Assay (GLC).....>=99 %  
 Water miscibility .....Conform      Boiling point .....160.0 - 162.0 °C      Heavy metals (Pb) .....<=2 ppm  
 Benzene miscibility .....Complete      Water (K.F.).....<=0.1 %      Peroxides (H<sub>2</sub>O<sub>2</sub>).....<=250 ppm  
 Diethyl ether miscib. ....Complete      Acidity (acetic acid) .....<=600 ppm      Residue on ignition.....<=20 ppm

Code	Size	Packaging	Notes
453861	1l	Glass bottle	

## ▶ Diethylene glycol dimethyl ether &gt; RE-Pure-For synthesis

RE

Refractive index at 20°C .....1.406 - 1.41      Colour .....<= 10 Hazen  
 Water content (K.F.).....<= 500 mg/Kg      Assay (GC).....>= 99.8 %

Code	Size	Packaging	Notes
P0410228	5l	Metal tank	
P0410248	25l	Metal tank	

## ▶ Diethylene glycol monobutyl ether ▶ 2-(2-Butoxyethoxy)ethanol

## ▶ Diethylenetriaminepentacetic acid

[(HOOCCH<sub>2</sub>)<sub>2</sub>NCH<sub>2</sub>CH<sub>2</sub>]<sub>2</sub>NCH<sub>2</sub>COOH  
 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

3.1.0/3; H301-3.3/2; H319-4.1.C/2; H411  
 P280-P305+P351+P338-P301+P310-P330-P405-P501a

## ▶ Diethylenetriaminepentacetic acid &gt; RPE-For analysis

RPE

Description .....White crystalline powder      Identification.....Positive      Assay (acidimetric) .....>= 98.0 %

Code	Size	Packaging	Notes
405192	250g	Plastic bottle	

For the preparation of complexes: Na<sub>2</sub>Fe(DPTA), Na<sub>2</sub>[Cr(DPTA)] et H<sub>2</sub>[Gd(DPTA)].

## ▶ Diethyl ether

Synonyms : diethyl oxyde  
 Ethyl ether

CH<sub>3</sub>CH<sub>2</sub>OCH<sub>2</sub>CH<sub>3</sub>  
 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

2.6/1; H224-3.1.0/4; H302-3.8/3; H336-EUH019-EUH066  
 P210-P241-P304+P340-P403+P235-P405-P501a

## ▶ Diethyl ether &gt; RS-For HPLC Isocratic-Not stabilized

RS

Clear, colourless liq. appearance.....Conform      Water content (K.F.).....<= 100 mg/Kg      U.V. Transmittance      At 280 nm.....>= 92 %  
 Identification.....Conform      Free acid (as CH<sub>3</sub>COOH) .....<= 30 mg/Kg      At 220 nm .....>= 10 %      At 300 nm.....>= 98 %  
 Colour .....<= 10 Apha      Peroxides (as H<sub>2</sub>O<sub>2</sub>).....<= 60 mg/Kg      At 230 nm .....>= 45 %      Assay (GC).....>= 99.7 %  
 Refractive index at 20°C .....1.35 - 1.354      Non volatile residue .....<= 5 mg/Kg      At 250 nm .....>= 75 %

Code	Size	Packaging	Notes
412671	1l	Glass bottle	
412672	2,5l	Glass bottle	

# DIE

## ▶ Diethyl ether > RS-PESTIPUR- For pesticide analysis-Not stabilized

RS

Description .....Clear liquid Water .....<= 0.02 % Peroxides (H2O2).....<= 60 ppm  
 Colour.....<= 10 APHA Residue on evaporation .....<= 5 ppm GC-ECD (Lindane).....<= 3 ng/l  
 Identification.....Positive Acidity .....<= 0.0005 meq/g Assay (GLC).....>= 99.7 %  
 Not volatile residue.....<= 5 ppm

Code	Size	Packaging	Notes
447651	1l	Glass bottle	
447652	2,5l	Glass bottle	

## ▶ Diethyl ether > RS-SPECTROSOL-For optical spectroscopy-Not stabilized

RS

Description .....Clear liquid Water (K.F.).....<=100 ppm Assay (GLC).....>=99.7 % At 280 nm .....>=92 %  
 Colour.....<=10 APHA Residue on evaporation .....<=5 ppm U.V. Transmittance At 220 nm .....>=98 %  
 Identification.....Positive Acidity .....<=0.0005 meq/g At 230 nm .....>=45 %  
 Density at 20° C .....0.712 - 0.714 Alkalinity .....<=0.0002 meq/g At 250 nm .....>=75 %  
 Boiling point .....34.4 - 34.9 ° C Peroxides (H2O2).....<=60 ppm

Code	Size	Packaging	Notes
447593	1l	Glass bottle	

## ▶ Diethyl ether > RS-Anhydrous-For analysis-Stabilized with BHT

RS

Refractive index at 20°C .....1.35 - 1.354 Peroxides (as H2O2) .....<= 1 mg/Kg Stabilizer (ionol).....5 - 7 mg/Kg  
 Water content (K.F.).....<= 50 mg/Kg Free acid (as CH3COOH).....<= 30 mg/Kg Matter darkened by H2SO4.....<= 10 Hazen  
 Colour.....<= 10 Hazen Ketone and Aldehyde .....<= 100 mg/kg Non volatile residue (without stab.).....<= 10 mg/Kg  
 Assay (GC).....>= 99.7 % Methanol.....<= 200 mg/Kg

Code	Size	Packaging	Notes
P0441010	200ml	Glass bottle	
P04410T10	200ml	Bottle with sept	On molecular sieves 4A, Water content < 20ppm
P0441008	1l	Aluminium bottle	
P0441016	1l	Glass bottle	
P04410T16	1l	Glass bottle	On molecular sieves 4A, Water content < 20ppm
P0441021	2,5l	Glass bottle	

## ▶ Diethyl ether > RPE-For analysis-ACS-Not stabilized

RPE

Description .....Clear liquid Residue on evaporation .....<=10 ppm Carbonyl Compounds (CO) .....<=10 ppm  
 Colour.....<=10 APHA Acidity.....<=0.0002 meq/g Peroxides (H2O2).....<=1 ppm  
 Water (K.F.).....<=300 ppm Ethyl alcohol.....Conform Assay (GLC).....>=99.0 %

Code	Size	Packaging	Notes
447534	1l	Glass bottle	
447539	5l	Aluminium can	
447532	20kg	Aluminium can	
447531	140kg	Metal drum	

## ▶ Diethyl ether > RPE-For analysis-Stabilized with BHT

RPE

Description .....Clear liquid Residue on evaporation .....<=10 ppm Al.....<=0.5 ppm Ni.....<=0.02 ppm  
 Colour.....<=10 APHA Acetone .....<=50 ppm Ca.....<=0.5 ppm Pb.....<=0.05 ppm  
 Identification (I.R.).....Conform Acidity (acetic acid) .....<=5 ppm Cd.....<=0.05 ppm Sn.....<=0.1 ppm  
 Foreign odours.....Conform Alkalinity (NH3) .....<=1.4 ppm Co.....<=0.02 ppm Zn.....<=0.1 ppm  
 Ready carbonizable substances.....Conform Ethyl alcohol.....<=100 ppm Cr.....<=0.02 ppm Assay (GLC).....>=99.8 %  
 Density at 20° C .....0.714 - 0.716 Methyl alcohol.....<=200 ppm Cu.....<=0.02 ppm **Stabilized with about 6 ppm BHT**  
 Refractive index at 20°C .....1.35 - 1.354 Carbonyl Compounds (CO) .....<=10 ppm Fe.....<=0.1 ppm  
 Boiling point .....34.0 - 35.0 ° C Heavy metals (Pb) .....<=1 ppm Mg.....<=0.1 ppm  
 Water (K.F.).....<=200 ppm Peroxides (H2O2).....<=1 ppm Mn.....<=0.02 ppm

Code	Size	Packaging	Notes
447521	1l	Glass bottle	
447523	2,5l	Glass bottle	
447522	5l	Aluminium can	
447525	20kg	Aluminium can	

## ▶ Diethyl ether > ERBAPharm-According to pharmacopoeia: BP-Ph.Eur.-not Stabilized

ERBAPharm

Description .....Clear colourless liquid Foreign odours .....Conform Ph.Eur. Water (K.F.).....<=0.2 %  
 Identification.....Positive Peroxide .....Conform Ph.Eur. Non volat.substances .....<=20 ppm p/v  
 Acidity.....Conform Ph.Eur. Density at 20° C .....0.714 - 0.716  
 Aldehydes.....Conform Ph.Eur. Boiling point .....34.0 - 35.0 ° C

Code	Size	Packaging	Notes
340731	40x100g	Glass bottle	

► **Diethyl ether > ERBAPharm-According to pharmacopoeia: BP-Ph.Eur.-Stabilized with BHT** **ERBAPharm**

Description .....Clear colourless liquid Foreign odours .....Conform Ph.Eur. Water (K.F.) .....<=2 g/l  
 Identification.....Positive Peroxide .....Conform Ph.Eur. Non volat.substances .....<=20 ppm p/v  
 Acidity.....Conform Ph.Eur. Density at 20° C.....0.714 - 0.716 Origin (BSE/TSE) .....Synthesis  
 Aldehydes.....Conform Ph.Eur. Boiling point .....34.0 - 35.0 °C Residual solvents (CPMP/ICH/283/95) .....Conform

Code	Size	Packaging	Notes
340751	1l	Glass bottle	
340752	20kg	Aluminium can	
340759	140kg	Metal drum	

► **Diethyl ether > RE-Pure-Stabilized with BHT**

RE


Description .....Clear colourless liquid Boiling point .....34.1 - 35.1 °C Acidity (acetic acid) .....<=20 ppm  
 Identification.....Positive Water (K.F.) .....<=300 ppm Assay (GLC) .....>=99.5 %  
 Density at 20° C.....0.710 - 0.716 Residue on evaporation .....<=20 ppm

Code	Size	Packaging	Notes
528275	5l	Aluminium can	
528276	25l	Metal tank	
340762	20kg	Aluminium can	
340765	140kg	Metal drum	

**n,n-Diethyl-p-phenylenediamine sulfate**

$\text{NH}_2\text{C}_6\text{H}_4\text{N}(\text{C}_2\text{H}_5)_2 \cdot \text{H}_2\text{SO}_4$   
 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**  
 3.1.O/3; H301  
 P264-P270-P301+P310-P330-P405-P501a

► **n,n-Diethyl-p-phenylenediamine sulfate > RPE-For analysis**

RPE

Description .....White crystalline powder Chloride .....<=200 ppm Assay (oxidimetric) .....>=99 %  
 Identification.....Positive Residue on ignition .....<=0.1 %  
 Loss on drying .....<=1 % Fe .....<=200 ppm

Code	Size	Packaging	Notes
443341	100g	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	100g	Plastic bottle	
338121	1kg	Plastic bottle	

**Diethyl phthalate**

$\text{C}_6\text{H}_4(\text{COOC}_2\text{H}_5)_2$   
 Molecular Weight 222,24  
 CAS : 84-66-2  
 EEC-N : 201-550-6

 **Warning**  
 3.3/2; H319  
 P280-P264-P305+P351+P338-P337+P313

► **Diethyl phthalate > RPE-For analysis**

RPE

Description .....Clear colourless liquid Refractive index at 20° C .....1.500 - 1.505 Heavy metals (Pb) .....<=5 ppm  
 Identification.....Positive Water (K.F.) .....<=0.1 % Assay (GLC) .....>=99 %  
 Density at 20° C.....1.118 - 1.121 Residue on ignition .....<=100 ppm

Code	Size	Packaging	Notes
443404	1l	Glass bottle	

# DIE

## ▶ Diethyl phthalate > ERBAPharm-According to pharmacopoeia: BP-NF-Ph.Eur.

**ERBAPharm**

Description .....Clear colourless,very slightly yellow liq. Acidity (ml NaOH 0.1M).....<= 0.1 ml Water (K.F.).....<=0.2 %  
Identification (IR).....Positive Related substances(GLC).....Conform Ph.Eur. Assay (saponification) .....99.0 - 101.0 % (m/m)  
Refractive index at 20°C .....1.500 - 1.505 Density at 20° C.....1.118 - 1.121 Origin (BSE/TSE) .....Synthesis  
Appearance.....Conform Ph.Eur. Sulphated ash.....<=0.02 % Residual solvents (CPMP/ICH/283/95).....Conform

Code	Size	Packaging	Notes
338115	2,5l	Glass bottle	
338113	30kg	Metal tank	

**D**

## Differentiator for kit Gram

### Classification transport

ONU: 1993  
Transport Hazard class: 3  
Packing group II



### Danger

2.6/2; H225-3.8/2; H371  
P210-P241-P309+P311-P403+P235-P405-P501a

## Differentiator for kit Gram > RS-For microscopy

**RS**

Description.....Colourless liquid Identification.....Positive

Code	Size	Packaging	Notes
444131	250ml	Plastic bottle	

*Suitable for bacteriology. Contains ethanol.*

## Digitonin

C<sub>56</sub>H<sub>92</sub>O<sub>29</sub>  
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

3.1.0/3; H301-3.9/2; H373  
P260-P301+P310-P314-P330-P405-P501a

## Digitonin > RPE-For analysis

**RPE**

Description .....White crystalline powder Water (K.F.).....<= 6 % Specific optical rotation (C=10; CH<sub>3</sub>COOH 75%) .-47 - -49 ° (s.s.)  
Identification.....Positive Residue on calcination.....<= 0.3 %

Code	Size	Packaging	Notes
444207	1g	Glass bottle	

## Diglyme ▶ Diethylene glycol dimethyl ether

## Diisopropylamine

[(CH<sub>3</sub>)<sub>2</sub>CH]<sub>2</sub>NH  
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

2.6/2; H225-3.2/1B; H314-3.1.0/4; H302-3.1.1/4; H332  
P210-P241-P304+P340-P305+P351+P338-P403+P235-P405-P501a

## Diisopropylamine > RPE-For analysis

**RPE**

Description .....Clear liquid Colour.....<= 10 APHA Water .....<= 0.2 %  
Identification.....Positive Refractive index at 20°C .....1.3910 - 1.3930 Assay (GLC).....>= 99 %



Code	Size	Packaging	Notes
445981	250ml	Glass bottle	

## Diisopropylether

Synonym : Diisopropyl oxyde

[(CH<sub>3</sub>)<sub>2</sub>CH]<sub>2</sub>O  
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**  
2.6/2; H225-3.8/3; H336-EUH019-EUH066  
P210-P241-P304+P340-P403+P235-P405-P501a

## Diisopropylether &gt; RS-Anhydrous-For analysis

RS

Appearance.....Clear colourless liquid      Colour.....<= 10 Hazen  
Refractive index at 20°C.....1.366 - 1.370      Density d20/4.....0.722 - 0.726  
Identification (I.R.).....Conform      Peroxides (as H<sub>2</sub>O<sub>2</sub>).....<= 10 mg/Kg  
Water content (K.F.).....<= 50 mg/Kg      Assay (GC).....>= 99.0 %  
Stabilizer (ionol).....2 - 15 mg/Kg  
Free acid (as CH<sub>3</sub>COOH).....<= 10 mg/Kg  
Non volatile residue (without stab.).....<= 10 mg/Kg

Code	Size	Packaging	Notes
P0431016	1l	Glass bottle	

## Diisopropylether &gt; RPE-For analysis

RPE

Description.....Clear colourless liquid      Diethyl ether miscib. ....Complete  
Identification (I.R.).....Conform      Density at 20° C.....0.719 - 0.729  
Alcohol miscibility.....Complete      Boiling point.....66.5 - 69.5 ° C  
Chloroform miscibility.....Complete      Water (K.F.).....<=0.1 %  
Peroxides (H<sub>2</sub>O<sub>2</sub>).....<=0.4 ppm  
Assay (GLC).....>=98.5 %

Code	Size	Packaging	Notes
447932	1l	Glass bottle	
447933	5l	Plastic tank	
447935	21kg	Aluminium can	

Stabilized with ~10ppm of BHT

## Diisopropylether &gt; RE-Pure-For synthesis

RE




Appearance.....Clear colourless liquid      Density d20/4.....0.722 - 0.726  
Identification (I.R.).....Conform      Peroxides (as H<sub>2</sub>O<sub>2</sub>).....<= 50 mg/Kg  
Water content (K.F.).....<= 1000 mg/Kg      Assay (GC).....>= 99.0 %  
Colour.....<= 10 Hazen      Stabilizer (ionol).....2 - 15 mg/Kg  
Free acid (as CH<sub>3</sub>COOH).....<= 10 mg/Kg  
Non volatile residue (without stab.).....<= 10 mg/Kg

Code	Size	Packaging	Notes
P0430228	5l	Plastic tank	
P0430240	10l	Metal tank	
P0430248	25l	Metal tank	
P0430268	200l	Metal drum	

## n,n-Diisopropylethylamine

C<sub>8</sub>H<sub>19</sub>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**  
2.6/2; H225-3.2/1B; H314-3.1.0/4; H302-4.1.C/3; H412  
P210-P241-P304+P340-P305+P351+P338-P403+P235-P405-P501a

## n,n-Diisopropylethylamine &gt; RE-Pure-For synthesis

RE

Refractive index at 20°C.....1.411 - 1.415      Colour.....<= 40 Hazen  
Water content (K.F.).....<= 2000 mg/Kg      Assay (GC).....>= 98 %

Code	Size	Packaging	Notes
P0400272	200ml	Bottle with sept	
P0400252	30l	Plastic tank	

## Dimedone

Synonym : 5,5-Dimethyl-1,3-cyclohexanedione

(CH<sub>3</sub>)<sub>2</sub>CCH<sub>2</sub>COCH<sub>2</sub>COCH<sub>2</sub>  
Molecular Weight 140,18  
CAS : 126-81-8  
EEC-N : 204-804-4

## Dimedone &gt; RPE-For analysis

RPE

Description.....White crystalline powder      Melting point.....147 - 150 ° C  
Identification.....Positive      Assay (GLO).....>= 98.5 %

Code	Size	Packaging	Notes
444252	25g	Glass bottle	

For the determination of aldehydes.

## 1,2-Dimethoxyethane

Synonyms : *Dimethylglycol*  
*Monoglyme*

C<sub>4</sub>H<sub>10</sub>O<sub>2</sub>  
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

2.6/2; H225-3.7/1B; H360FD-3.1.1/4; H332-EUH019-A26  
P210-P241-P304+P340-P403+P235-P405-P501a

D

### 1,2-Dimethoxyethane > RS-Anhydrous-For analysis

RS

Refractive index at 20°C .....1.377 - 1.381 Colour .....<= 10 Hazen  
Water content (K.F.).....<= 200 mg/Kg Assay (GC).....>= 99 %

Code	Size	Packaging	Notes
P0301010	200ml	Bottle with sept	
P03010T16	1l	Glass bottle	On molecular sieves 3A

### 1,2-Dimethoxyethane > RE-Pure-For synthesis

RE

Refractive index at 20°C .....1.377 - 1.381 Non volatile residue .....<= 50 mg/Kg Assay (GC).....>= 99.5 %  
Water content (K.F.).....<= 500 mg/Kg Colour .....<= 10 Hazen Free acid (as CH<sub>3</sub>COOH).....<= 150 mg/Kg

Code	Size	Packaging	Notes
P0300221	2,5l	Glass bottle	
P0300268	200l	Metal drum	

## n,n-Dimethylacetamide

CH<sub>3</sub>CON(CH<sub>3</sub>)<sub>2</sub>  
Molecular Weight 87,122  
CAS : 127-19-5  
EEC-N : 204-826-4



### Danger

3.7/1B; H360D-3.1.D/4; H312-3.1.1/4; H332-A26  
P261-P271-P280-P304+P340-P405-P501a

### n,n-Dimethylacetamide > RPE-For analysis

RPE

Description .....Clear colourless liquid Boiling point .....164.0 - 166.0 °C Chloride .....<=10 ppm Assay (GLC).....>=99.8 %  
Identification .....Positive Water (K.F.).....<=0.05 % Heavy metals (Pb) .....<=5 ppm  
Density at 20° C .....0.940 - 0.946 Residue on evaporation .....<=50 ppm Sulphate.....<=10 ppm  
Refractive index at 20°C .....1.4343 - 1.4403 Acidity (acetic acid) .....<=80 ppm Fe.....<=5 ppm

Code	Size	Packaging	Notes
444307	1l	Glass bottle	
444308	25kg	Polythene-metal drum	

## p-Dimethylaminobenzaldehyde

Synonyms : *4-(Dimethylamino)benzaldehyde*  
*DMAB*

(CH<sub>3</sub>)<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>CHO  
Molecular Weight 149,19  
CAS : 100-10-7  
EEC-N : 202-819-0



### Warning

3.1.O/4; H302  
P264-P270-P330-P301+P312-P501a

### p-Dimethylaminobenzaldehyde > RPE-For analysis

RPE

Description .....Yellow / Green Melting point .....74 ± 2 ° C Assay (non-aqueous medium) .....>= 97.5 %  
Identification .....Positive Free acidity .....<= 1 %

Code	Size	Packaging	Notes
444604	100g	Plastic bottle	
444603	250g	Plastic bottle	

## p-Dimethylaminobenzylidenerhodanine

(CH<sub>3</sub>)<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>CH:CSC:SNHCO  
Molecular Weight 264,37  
CAS : 536-17-4  
EEC-N : 208-625-2



**Warning**

3.1.0/4; H302  
P264-P270-P330-P301+P312-P501a

### p-Dimethylaminobenzylidenerhodanine > RPE-For analysis

RPE

Description.....Red crystalline powder Identification.....Positive Loss on drying .....<=1 % Copper sensitivity .....>=0,5 µg/ml  
Residue on ignition .....<=0,5 % pH range.....2.9 - 4.0

Code	Size	Packaging	Notes
444678	5g	Glass bottle	

*Acid-base indicator (pH 2,9÷4,0).*

## 4-Dimethylaminopyridine

(CH<sub>3</sub>)<sub>2</sub>NC:CHCH:NCH:CH  
Molecular Weight 122,17  
CAS : 1122-58-3  
EEC-N : 214-353-5

### Classification transport

ONU: 2928  
Transport Hazard class: 6.1  
Packing group II



**Danger**

3.1.0/3; H301-3.1.D/1; H310-3.2/2; H315-3.3/2; H319  
P280-P302+P350-P305+P351+P338-P301+P310-P405-P501a

### 4-Dimethylaminopyridine > RPE-For analysis

RPE

Description .....Yellow powder Identification.....Positive Melting point .....112 - 113 °C

Code	Size	Packaging	Notes
444512	25g	Glass bottle	

*For derivatization.*

## Dimethyldichlorosilane

Synonyms : *Dimethyldichlorosilane*  
*DMDCS*

(CH<sub>3</sub>)<sub>2</sub>SiCl<sub>2</sub>  
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**

2.6/2; H225-3.2/2; H315-3.3/2; H319-3.8/3; H335  
P210-P241-P304+P340-P305+P351+P338-P403+P235-P405-P501a

### Dimethyldichlorosilane > RPE-For analysis

RPE

Description .....Clear colourless liquid Density at 20° C.....1.070 - 1.072 Boiling point .....68.5 - 69.5 °C  
Identification.....Positive Refractive index at 20°C .....1.4040 - 1.4060 Assay (GLC).....>= 99 %

Code	Size	Packaging	Notes
444771	100ml	Glass bottle	

*For derivatization.*

## n,n-Dimethylformamide

(CH<sub>3</sub>)<sub>2</sub>NOCH  
Molecular Weight 73,1  
CAS : 68-12-2  
EEC-N : 200-679-5

### Classification transport

ONU: 2265  
Transport Hazard class: 3  
Packing group III



**Danger**

3.7/1B; H360D-2.6/3; H226-3.1.D/4; H312-3.1.I/4; H332-3.3/2; H319-A26  
P210-P241-P304+P340-P305+P351+P338-P403+P235-P405-P501a

### n,n-Dimethylformamide > RS-ATRASOL-For trace analysis, Suitable for OVI analysis

RS

Refractive index at 20°C .....1.428 - 1.432 Free acid (as HCOOH).....<= 20 mg/Kg Non volatile residue .....<= 10 mg/Kg  
Water content (K.F).....<= 200 mg/Kg Free alkalinity as HN(CH<sub>3</sub>)<sub>2</sub>.....<= 10 mg/Kg GC-FID. Individ. peak (hexane).....<= 3 mg/l  
Appearance.....Clear liquid Colour .....<= 10 Hazen Retention time range before DMF  
Density d20/4 .....0.945 - 0.955 Assay (GC).....>= 99.99 %

Code	Size	Packaging	Notes
P0343216	1l	Glass bottle	

## n,n-Dimethylformamide > RS-PESTIPUR- For pesticide analysis

**RS**

Refractive index at 20°C .....1.428 - 1.432 Assay (GC).....>= 99.8 % Retention time trichlorobenzene to mirex  
 Water content (K.F.).....<= 500 mg/Kg Non volatile residue .....<= 10 mg/Kg  
 Colour.....<= 10 Hazen GC-ECD.Individual peak (Lindane) .....<= 3 ng/l

Code	Size	Packaging	Notes
444941	1l	Glass bottle	

## n,n-Dimethylformamide > RS-SPECTROSOL - For optical spectroscopy

**RS**

Description .....Clear liquid Boiling point .....152.0 - 154.0 °C Assay (GLC).....>=99.9 % At 320 nm .....>=96 %  
 Colour.....<=10 APHA Water (K.F.).....<=400 ppm U.V. Transmittance At 330 nm .....>=98 %  
 Identification.....Positive Residue on evaporation .....<=10 ppm At 270 nm .....>=28 %  
 Density at 20° C.....0.940 - 0.948 Acidity or alkalinity.....<=0.001 meq/g At 280 nm .....>=72 %  
 Refract. index at 25° C.....1.4224 - 1.4314 Methyl alcohol .....<=100 ppm At 300 nm .....>=90 %

Code	Size	Packaging	Notes
444957	1l	Glass bottle	
444956	2,5l	Glass bottle	

## n,n-Dimethylformamide > RS-Anhydrous-For analysis

**RS**

Appearance.....Clear liquid Colour .....<= 10 Hazen Non volatile residue .....<= 20 mg/Kg Assay (GC).....>= 99.9 %  
 Identification (IR).....Conform Water content (K.F.).....<= 50 mg/Kg Free acid (as HCOOH).....<= 20 mg/Kg Methanol .....<= 100 mg/Kg  
 Refractive index at 20°C .....1.428 - 1.432 Density d20/4.....0.945 - 0.955 Free alkali as HN(CH3)2.....<= 10 mg/Kg Iron (Fe).....<= 5 mg/Kg

Code	Size	Packaging	Notes
P0341010	200ml	Bottle with sept	
P03410T10	200ml	Bottle with sept	On molecular sieves 4A
P0341016	1l	Glass bottle	
P03410T16	1l	Glass bottle	On molecular sieves 4A
P0341021	2,5l	Glass bottle	

## n,n-Dimethylformamide > RS-For peptide synthesis

**RS**

Appearance.....Clear colourless liquid Bromophenol blue test.....Conform Non volatile residue .....<= 15 mg/Kg Fe .....<= 0.05 mg/Kg  
 Colour.....<= 10 Hazen Amines content .....<= 5 mg/Kg Cu .....<= 0.05 mg/Kg Ni .....<= 0.05 mg/Kg  
 Refractive index at 20°C .....1.428 - 1.432 Assay (GC).....>= 99.9 % Cd .....<= 0.05 mg/Kg Pb .....<= 0.1 mg/Kg  
 Water content (K.F.).....<= 300 mg/Kg Methanol .....<= 100 mg/Kg Cr .....<= 0.05 mg/Kg

Code	Size	Packaging	Notes
P0343516	1l	Glass bottle	
P0343521	2,5l	Glass bottle	
P0343522	5l	Plastic tank	
P0343541	10l	Plastic tank	
P0343549	25l	Plastic tank	
P0343550	25l	Polythene-metal drum	
P0343567	200l	Plastic drum	

## n,n-Dimethylformamide > RPE-For analysis-ACS-Reag.Ph.Eur.-Reag.USP

**RPE**

Description .....Clear liquid Refract. index at 25° C.....1.4224 - 1.4314 Chloride .....<=10 ppm Fe.....<=0.05 ppm  
 Colour.....<=15 APHA Boiling point .....152.0 - 154.0 °C Heavy metals (Pb) .....<=1 ppm Ni .....<=0.02 ppm  
 Identification (I.R.).....Conform Water (K.F.).....<=0.03 % Sulphate.....<=10 ppm Pb .....<=0.1 ppm  
 Water miscibility.....Conform Residue on evaporation .....<=20 ppm Cd.....<=0.05 ppm Assay (GLC).....>=99.9 %  
 Chloroform miscibility.....Complete Acidity (formic acid).....<=20 ppm Cr.....<=0.02 ppm Methyl alcohol.....<= 100 ppm  
 Density at 20° C.....0.949 - 0.952 Alkalinity (NH3).....<=20 ppm Cu.....<=0.02 ppm

Code	Size	Packaging	Notes
444926	1l	Glass bottle	
444923	2,5l	Glass bottle	
444922	5l	Plastic tank	
444928	20kg	Glass-polystyrene container	
444925	190kg	Metal drum	

## n,n-Dimethylformamide > RE-Pure

**RE**

Description .....Clear colourless liquid Density at 20°C.....0.945 - 0.950 Residue on evaporation .....<= 50 ppm Free alkali as HN(CH3)2.....<= 0.0010 %  
 Identification.....Positive Refractive index at 20°C .....1.4229 - 1.4329 Water (K.F.).....<= 0.03 % Assay (GLC).....>= 99.9 %  
 Colour.....<= 10 APHA Boiling point .....152.0 - 154.0 °C Methyl alcohol .....<= 100 ppm  
 Colour.....<= degree 7 (colourless) pH at 20°C.....6.0 - 8.0 Free acid (as HCOOH) .....<= 0.0020 %


Code	Size	Packaging	Notes
508801	1l	Glass bottle	
508802	2,5l	Glass bottle	
528221	5l	Plastic tank	
528220	25l	Plastic tank	
508803	200l	Metal drum	



## n,n-Dimethylformamide-d7

(CD<sub>3</sub>)<sub>2</sub>N OCD  
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**  
3.7/1B; H360D-2.6/3; H226-3.1.D/4; H312-3.1.I/4; H332-3.3/2; H319-A26  
P210-P241-P304+P340-P305+P351+P338-P403+P235-P405-P501a

### n,n-Dimethylformamide-d7 > RS-For NMR-min 99.5%


RS

Code	Size	Packaging	Notes
P5189A	2x0,75ml	Glass ampoule	
P5183A	5ml	Glass ampoule	

## n,n-Dimethylformamide dimethylacetal

(CH<sub>3</sub>)<sub>2</sub>NCH(OCH<sub>3</sub>)<sub>2</sub>  
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**  
2.6/2; H225-3.1.I/4; H332-3.2/2; H315-3.3/2; H319  
P210-P241-P304+P340-P305+P351+P338-P403+P235-P501a

### n,n-Dimethylformamide dimethylacetal > RPE-For analysis

RPE

Description .....Clear colourless liquid Density at 20° C.....>=0.90  
Identification.....Positive Boiling point .....102 - 104 ° C


Code	Size	Packaging	Notes
444901	10ml	Glass bottle	

For derivatization.

## n,n-Dimethyl-p-phenylenediamine oxalate

[(CH<sub>3</sub>)<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>NH<sub>2</sub>]<sub>2</sub>.5COOH)<sub>2</sub>  
Molecular Weight 362,44  
CAS : 24631-29-6  
EEC-N : 246-374-0

**Classification transport**  
ONU: 2811  
Transport Hazard class: 6.1  
Packing group II

 **Danger**  
3.1.O/3; H301-3.1.D/3; H311-3.1.I/2; H330  
P260-P271-P280-P304+P340-P405-P501a

### n,n-Dimethyl-p-phenylenediamine oxalate > RPE-For analysis


RPE

Description .....White-grey powder Identification.....Positive Sulphides sensitivity .....min. 0.1 mcg/ml

Code	Size	Packaging	Notes
444761	50g	Glass bottle	

## n,n'-Dimethylpropylene uree

C<sub>6</sub>H<sub>12</sub>N<sub>2</sub>O  
Molecular Weight 128,17  
CAS : 7226-23-5  
EEC-N : 230-625-6

 **Danger**  
3.3/1; H318-3.7/2; H361f-3.1.O/4; H302  
P280-P305+P351+P338-P308+P313-P330-P405-P501a

### n,n'-Dimethylpropylene uree > RE-Pure-For synthesis

RE

Clear, colourless to light yellow liq. ....Conform Water content (K.F.).....<= 1000 mg/Kg  
Refractive index at 20°C .....1.4883 - 1.4913 Assay (GC).....>= 99.0 %

Code	Size	Packaging	Notes
P8020218	500ml	Glass bottle	
P8020216	1l	Glass bottle	
P8020229	5l	Plastic tank	
P8020248	25l	Metal tank	

## Dimethylsulphoxide

CH<sub>3</sub>SOCH<sub>3</sub>  
Molecular Weight 78,13  
CAS : 67-68-5  
EEC-N : 200-664-3



### Warning

3.2/2; H315-3.3/2; H319  
P280-P264-P305+P351+P338-P332+P313-P337+P313-P362

### ► Dimethylsulphoxide > RS-ATRASOL-For trace analysis, Suitable for OVI analysis

RS

Appearance.....Clear colourless liquid Water content (K.F.).....<= 200 mg/Kg Non volatile residue .....<= 2 mg/Kg  
Density d20/4 .....1.096 - 1.106 Colour .....<= 10 Hazen GC-FID. Individ. peak (hexane).....<= 5 mg/l  
Refractive index at 20°C .....1.477 - 1.481 Assay (GC).....>= 99.98 % Retention time range before DMSO

Code	Size	Packaging	Notes
P0353216	1l	Glass bottle	

Hygroscopic product. Store well sealed in a dry place

### ► Dimethylsulphoxide > RS-SPECTROSOL - For optical spectroscopy

RS

Description.....Clear colourless liquid Water (K.F.).....<=500 ppm Fluorescence At 275 nm .....>=60 %  
Identification.....Positive Residue on evaporation .....<=10 ppm At 254 nm .....>= 71 %  
Density at 20° C.....1.096 - 1.106 Acidity.....<=0.0005 meq/g At 365 nm .....<=2 ppb At 290 nm .....>= 71 %  
Refractive index at 20°C .....1.4765 - 1.4825 Alkalinity.....<=0.0002 meq/g U.V. Transmittance At 315 nm .....>=90 %  
Melting point .....18.1 - 18.7 ° C Assay (GLC).....>=99.8 % At 265 nm .....>=10 % At 340 nm .....>= 98 %  
Dimethylsulphone.....<= 0.1 %

Code	Size	Packaging	Notes
445112	1l	Glass bottle	
445111	2,5l	Glass bottle	

Hygroscopic product. Store well sealed in a dry place

### ► Dimethylsulphoxide > RPE-For analysis-ACS-Reag.Ph.Eur.-Reag.USP

RPE

Description.....Clear colourless liquid Refractive index at 20°C .....1.4765 - 1.4825 Residue on evaporation .....<=50 ppm Sulphate.....<=50 ppm  
Identification.....Positive Boiling point .....188.5 - 189.5 ° C Acidity .....<=0.001 meq/g Assay (GLC).....>=99.9 %  
Ready carbonizable substances .....Conform Melting point .....18.3 - 18.7 ° C Chloride .....<=5 ppm  
Density at 20° C.....1.096 - 1.106 Water (K.F.).....<=0.05 % Heavy metals (Pb) .....<=20 ppm

Code	Size	Packaging	Notes
445103	1l	Glass bottle	
445106	2,5l	Glass bottle	
445107	15kg	Plastic bottle	
445101	25kg	Plastic tank	

Hygroscopic product. Store well sealed in a dry place

### ► Dimethylsulphoxide > RE-Pure

RE

Description.....Clear colourless liquid Refractive index at 20°C .....1.4765 - 1.4825 Residue on evaporation.....<= 50 ppm  
Identification.....Positive Boiling point .....188 - 190 ° C Dimethylsulphone .....<= 0.1 %  
Colour.....<= 10 APHA Acidity.....<= 100 ppm Assay (GLC).....>= 99.8 %  
Density at 20°C.....1.096 - 1.106 Water (K.F.).....<= 0.1 %

Code	Size	Packaging	Notes
508001	1l	Glass bottle	
508002	2,5l	Glass bottle	
528335	5l	Plastic tank	

Hygroscopic product. Store well sealed in a dry place

### ► Dimethylsulphoxide > RE-Pure-For synthesis

RE

Refractive index at 20°C .....1.477 - 1.481 Colour .....<= 10 Hazen Dimethylsulphone .....<= 0.1 %  
Water content (K.F.).....<= 100 mg/Kg Assay (GC).....>= 99.8 %

Code	Size	Packaging	Notes
P03502T10	200ml	Bottle with sept	On molecular sieves 4A
P03502T16	1l	Glass bottle	On molecular sieves 4A
P03502T21	2,5l	Glass bottle	On molecular sieves 4A

Hygroscopic product. Store well sealed in a dry place

## Dimethylsulphoxide-d6

CD<sub>3</sub>SOCD<sub>3</sub>  
Molecular Weight 84,18  
CAS : 2206-27-1  
EEC-N : 218-617-0



### Warning

3.2/2; H315-3.3/2; H319  
P280-P264-P305+P351+P338-P332+P313-P337+P313-P362

### ▶ Dimethylsulphoxide-d6 > RS-For NMR-min 99.8%

RS

Code	Size	Packaging	Notes
P5200	10x0,6ml	Glass ampoule	
P5209	10x0,75ml	Glass ampoule	
P5204A	10ml	Glass ampoule	
P5204S	5x10ml	Bottle with sept	
P5205	25ml	Glass bottle	
P5206	100ml	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	10x0,6ml	Glass ampoule	
P5229	10x0,75ml	Glass ampoule	

*Hygroscopic product. Store well sealed in a dry place*

## Dimethylsulphoxide-d6 + 0,03% TMS

CD<sub>3</sub>SOCD<sub>3</sub>  
Molecular Weight 84,18  
CAS : 2206-27-1  
EEC-N : 218-617-0



### Warning

3.2/2; H315-3.3/2; H319  
P280-P264-P305+P351+P338-P332+P313-P337+P313-P362

### ▶ Dimethylsulphoxide-d6 + 0,03% TMS > RS-For NMR-min 99.8%

RS

Code	Size	Packaging	Notes
P5602	10x0,6ml	Glass ampoule	
P5605	25ml	Glass bottle	
P5606	100ml	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	10x0,75ml	Glass ampoule	
P5545	25ml	Glass bottle	

*Hygroscopic product. Store well sealed in a dry place*

## Dimidium bromide

Synonyms : 3,8-Diamino-5-methyl-6-phenylphenanthridinium bromide  
Trypadine

C<sub>20</sub>H<sub>18</sub>BrN<sub>3</sub>  
Molecular Weight 380,29  
CAS : 518-67-2  
EEC-N : 208-256-7



### Warning

3.2/2; H315-3.3/2; H319  
P280-P264-P305+P351+P338-P332+P313-P337+P313-P362

### ▶ Dimidium bromide > RPE-For analysis

RPE

Description .....Powder Red - brown Identification.....Positive

Code	Size	Packaging	Notes
445232	1g	Glass bottle	
445231	5g	Glass bottle	


*For the determination of surfactants.*

## Di-n-butylphthalate

Synonym : n-Butyle phthalate

$C_6H_4[COOC_4H_9]_2$   
Molecular Weight 278,35  
CAS : 84-74-2  
EEC-N : 201-557-4

**Classification transport**  
ONU: 3082  
Transport Hazard class: 9  
Packing group III

 **Danger**  
3.7/1B; H360Df-4.1.A/1; H400-A26  
P281-P273-P308+P313-P391-P405-P501a

D

## Di-n-butylphthalate &gt; RPE-For analysis

RPE

Description ..... Clear liquid      Density at 20° C ..... 1.043 - 1.049      Acidity (Phthalic acid) ..... <=0.1 %  
Colour ..... <= 30 APHA      Refractive index at 20°C ..... 1.490 - 1.495      Assay (GLC) ..... >=99 %  
Identification ..... Positive      Water (K.F.) ..... <=0.2 %

Code	Size	Packaging	Notes
431942	1l	Glass bottle	
431949	28kg	Metal tank	
431947	200kg	Metal drum	

## Di-n-butylphthalate &gt; ERBAPharm-According to pharmacopoeia: Ph.Eur.

ERBAPharm


Description ..... Clear colourless liquid      Water (K.F.) ..... <= 0.2 %      Refractive index at 20°C ..... 1.490 - 1.495  
Identification ..... Positive      Sulphated ash ..... <= 0.1 %      Origin (BSE/TSE) ..... Synthesis  
Acidity ..... Conform Ph.Eur.      Assay (alkalimetric) ..... 99.0 - 101.0 %      Residual solvents (CPMP/ICH/283/95) ..... Conform  
Related substances (GLC) ..... <= 1.0 %      Density at 20°C ..... 1.043 - 1.048

Code	Size	Packaging	Notes
325701	26kg	Metal tank	

## 2,4-Dinitrochlorobenzene

$(NO_2)_2C_6H_3Cl$   
Molecular Weight 202,56  
CAS : 97-00-7  
EEC-N : 202-551-4

**Classification transport**  
ONU: 3441  
Transport Hazard class: 6.1  
Packing group II

 **Danger**  
3.1.O/3; H301-3.1.D/3; H311-3.1.I/3; H331-3.9/2; H373-4.1.A/1; H400-4.1.C/1; H410  
P260-P261-P271-P304+P340-P405-P501a

## 2,4-Dinitrochlorobenzene &gt; RE-Pure

RE

Description ..... Yellow crystal. powder      Melting point ..... 48 - 52 ° C      Assay (argentimetric) ..... >=98 %  
Identification ..... Positive      Residue on ignition ..... <=0.1 %


Code	Size	Packaging	Notes
445421	250g	Glass bottle	

## 2,4-Dinitrofluorobenzene

Synonym : 1-Fluoro-2,4-dinitrobenzene

$(NO_2)_2C_6H_3F$   
Molecular Weight 186,1  
CAS : 70-34-8  
EEC-N : 200-734-3

**Classification transport**  
ONU: 2811  
Transport Hazard class: 6.1  
Packing group II

 **Danger**  
3.1.O/3; H301-3.1.D/3; H311-3.1.I/2; H330-3.9/2; H373  
P260-P271-P280-P304+P340-P405-P501a

## 2,4-Dinitrofluorobenzene &gt; RPE-For analysis

RPE

Description ..... Dark yellow liquid      Identification ..... Positive      Assay (GLC) ..... >= 98 %

Code	Size	Packaging	Notes
445701	10g	Glass bottle	

## 2,4-Dinitrophenol solution 0.05% in water

$C_6H_4N_2O_5$   
CAS : 51-28-5  
EEC-N : 200-087-7

## 2,4-Dinitrophenol solution 0.05% in water &gt; RPE-For analysis

RPE

Description ..... Yellow clear liquid      pH range ..... 2.4 - 4.0  
Identification ..... Positive      Colour change ..... colourless-yellow



Code	Size	Packaging	Notes
E445596	500ml	Glass bottle	

Michaelis indicator series.

## 2,4-Dinitrophenylhydrazine (with 50% of water)

(NO<sub>2</sub>)<sub>2</sub>C<sub>6</sub>H<sub>3</sub>NHNH<sub>2</sub>  
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**  
2.7/1; H228-3.1.0/4; H302-3.2/2; H315-3.3/2; H319-EUH001  
P210-P241-P280-P305+P351+P338-P330-P501a

### 2,4-Dinitrophenylhydrazine (with 50% of water) > RPE-For analysis

RPE




Description .....Reddish powder Water (K.F.).....30 - 35 % Assay (HPLC).....>= 98.5 %  
Identification.....Positive Residue on ignition .....<= 500 ppm  
Melting point .....198 - 201 °C Fe.....<= 10 ppm

Code	Size	Packaging	Notes
445524	100g	Bag	

## 1,4-Dioxane

OCH<sub>2</sub>CH<sub>2</sub>OCH<sub>2</sub>CH<sub>2</sub>  
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**  
2.6/2; H225-3.6/2; H351-3.3/2; H319-3.8/3; H335-EUH019-EUH066  
P210-P241-P304+P340-P305+P351+P338-P403+P235-P405-P501a

### 1,4-Dioxane > RS-For HPLC Isocratic-Stabilized with BHT

RS

Assay (CPG).....>= 99.5 % Density at 20°C.....1.031 - 1.037 Acidity (acetic acid) .....<= 50 ppm **U.V. Transmittance**  
Description .....Clear liquid Boiling point .....100 - 102 °C Alkalinity (NH<sub>3</sub>) .....<= 3 ppm At 250 nm .....<= 0.20 AU  
Colour .....<= 20 APHA Water (K.F.).....<= 250 ppm Carbonyl compounds (CO) .....<= 100 ppm At 270 nm .....<= 0.07 AU  
Identification (I.R.).....Positive Residue on evaporation .....<= 5 ppm Peroxyde (H<sub>2</sub>O<sub>2</sub>) .....<= 30 ppm At 280 nm .....<= 0.05 AU  
Refractive index at 20°C .....1.420 - 1.424 Acetal.....<= 500 ppm Heavy metals (Pb) .....<= 0.1 ppm At 290 nm .....<= 0.02 AU

Code	Size	Packaging	Notes
443231	1l	Glass bottle	

### 1,4-Dioxane > RS-Anhydrous-for analysis-Stabilized with BHT

RS

Refractive index at 20°C .....1.42 - 1.424 Peroxides (as H<sub>2</sub>O<sub>2</sub>) .....<= 50 mg/Kg Non volatile residue (without stab.) .....<= 10 mg/Kg  
Water content (K.F.).....<= 100 mg/Kg Assay (GC).....>= 99.8 % Free acid (as CH<sub>3</sub>COOH) .....<= 50 mg/Kg  
Colour .....<= 10 Hazen Stabilizer (ionol).....20 - 80 mg/Kg

Code	Size	Packaging	Notes
P0361010	200ml	Bottle with septum	With septum
P0361016	1l	Glass bottle	
P0361021	2,5l	Glass bottle	

### 1,4-Dioxane > RS-For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611032001	50ml	Bottle	Dioxane stock solution 1.0 mg/ml Ref Ph.Eur 1032001
611032003	50ml	Bottle	Dioxane solution R1 0.1 mg/ml Ref Ph.Eur 1032003
611032002	100ml	Bottle	Dioxane solution 0.5 mg/ml Ref Ph.Eur 1032002

### 1,4-Dioxane > RPE-For analysis-ACS-Reag.Ph.Eur.-Reag.USP-Stabilized with BHT

RPE

Description .....Clear colourless liquid Residue on evaporation .....<=20 ppm Cu.....<=0.02 ppm Assay (GLO).....>=99.8 %  
Identification.....Positive Acetal.....<=50 ppm Fe.....<=0.2 ppm Peroxides (H<sub>2</sub>O<sub>2</sub>).....<=50 ppm  
Density at 20° C.....1.032 - 1.036 Acidity.....<=0.0016 meq/g K.....<=0.1 ppm Carbonyl (as HCHO).....<=100 ppm  
Refractive index at 20°C .....1.4194 - 1.4254 Total phosphorus .....<=0.1 ppm Mg .....<=0.05 ppm Stabilized with BHT .....2.5 ppm  
Boiling point .....100.5 - 101.5 °C Total silicon.....<=0.05 ppm Na .....<=0.5 ppm  
Freezing point.....11.5 - 12.1 °C Total sulphur.....<=0.2 ppm Pb .....<=0.05 ppm  
Water (K.F.).....<=500 ppm Ca.....<=0.5 ppm Zn .....<=0.2 ppm

Code	Size	Packaging	Notes
443202000	1l	Glass bottle	
443206000	2,5l	Glass bottle	
443204000	5l	Plastic tank	
443201000	28kg	Metal tank	

# DIO

## 1,4-Dioxane > RE-Pure-Stabilized with BHT

RE

Description ..... Clear colourless liquid Density at 20° C ..... 1.031 - 1.037 Water (K.F.) ..... <= 0.1 % Acidity (acetic acid) ..... <= 50 ppm  
 Identification ..... Positive Refractive index at 20°C ..... 1.4174 - 1.4274 Residue on evaporation ..... <= 50 ppm Peroxides (H2O2) ..... <= 50 ppm  
 Colour ..... <= 10 APHA Boiling point ..... 100.3 - 101.8 ° C Acetal ..... <= 0.2 % Stabilized with BHT ..... 20 - 80 ppm

Code	Size	Packaging	Notes
338001	1l	Glass bottle	
338003	2,5l	Glass bottle	
338002	5l	Plastic tank	
338004	25l	Plastic tank	
338005	28kg	Metal tank	
338009	200kg	Metal drum	

## 1,4-Dioxane-d8

C<sub>4</sub>D<sub>8</sub>O<sub>2</sub>  
 Molecular Weight 96,17  
 CAS : 17647-74-4  
 EEC-N : 241-628-7

### Classification transport

ONU: 1165  
 Transport Hazard class: 3  
 Packing group II



### Danger

2.6/2; H225-3.1.1/4; H332-EUH019  
 P210-P241-P243-P304+P340-P403+P235-P501a

## 1,4-Dioxane-d8 > RS-For NMR-min 99%

RS

Code	Size	Packaging	Notes
P5239A	2x0,75ml	Glass ampoule	

## 1,3-Dioxolane

C<sub>3</sub>H<sub>6</sub>O<sub>2</sub>  
 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

2.6/2; H225  
 P210-P241-P243-P303+P361+P353-P403+P235-P501a

## 1,3-Dioxolane > RE-Pure-For synthesis

RE

Refractive index at 20°C ..... 1.3980 - 1.4020 Colour ..... <= 10 Hazen Peroxides (as H2O2) ..... <= 10 mg/Kg  
 Water content (K.F.) ..... <= 150 mg/Kg Assay (GC) ..... >= 99.9 % Stabilizer (ionol) ..... ~75 mg/kg

Code	Size	Packaging	Notes
P8030216	1l	Glass bottle	
P8030222	5l	Plastic tank	

## 1,3-Diphenylacetone

C<sub>15</sub>H<sub>14</sub>O  
 Molecular Weight 210,28  
 CAS : 102-04-5  
 EEC-N : 203-000-0



### Danger

3.1.O/1; H300  
 P264-P270-P301+P310-P330-P405-P501a

## 1,3-Diphenylacetone > RPE-For analysis

RPE


Description ..... Yellow crystalline solid Solubility ..... Water-insoluble matter Assay ..... >= 97.0 %  
 Identification ..... Positive Melting point ..... 32.0 - 37.0 ° C

Code	Size	Packaging	Notes
437801	25kg	Bag	

## Diphenylamine

(C<sub>6</sub>H<sub>5</sub>)<sub>2</sub>NH  
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**  
3.1.O/3; H301-3.1.D/3; H311-3.1.I/3; H331-3.9/2; H373-4.1.A/1; H400-4.1.C/1; H410  
P260-P261-P271-P304+P340-P405-P501a

### Diphenylamine > RPE-For analysis-ACS-Reag.Ph.Eur.-Reag.USP

RPE

Description .....White crystalline powder Melting point .....52.5 - 54.0 °C Residue on calcination .....<= 0.03 %  
Identification.....Positive Nitrate sensitivity .....Conform  
Nitrate .....Conform Alcohol solubility.....Conform


Code	Size	Packaging	Notes
443654	100g	Plastic bottle	

Redox indicator purple - colorless

## Diphenylamine solution 1% in sulfuric acid

(C<sub>6</sub>H<sub>5</sub>)<sub>2</sub>NH  
CAS : 122-39-4

**Classification transport**  
ONU: 1760  
Transport Hazard class: 8  
Packing group II

 **Danger**  
3.2/1A; H314  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

### Diphenylamine solution 1% in sulfuric acid > RS-For analysis according to Ph. Eur. Chap. 4.1.1


RS

Code	Size	Packaging	Notes
611032109	100ml	Bottle	Ref Ph.Eur 1032101
611032101	1l	Bottle	Ref Ph.Eur 1032101
611032102	1l	Bottle	Diphenylamine solution R1 Ref Ph.Eur 1032102

Storage: protected from light

## 4-Diphenylaminesulfonic acid sodium salt

C<sub>6</sub>H<sub>5</sub>NHC<sub>6</sub>H<sub>4</sub>SO<sub>3</sub>Na  
Molecular Weight 271,27  
CAS : 6152-67-6  
EEC-N : 228-165-6

 **Warning**  
3.2/2; H315-3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

### 4-Diphenylaminesulfonic acid sodium salt > RPE-For analysis-ACS

RPE

Description .....Whitish powder Identification.....Positive Sensitivity as indicat .....Conform

Code	Size	Packaging	Notes
443671	10g	Glass bottle	

Redox indicator. Purple / Red - Clear

## sym-Diphenylcarbazine

Synonym : 1,5-Diphenylcarbohydrazide

C<sub>6</sub>H<sub>5</sub>NHNHCONHNHC<sub>6</sub>H<sub>5</sub>  
Molecular Weight 242,28  
CAS : 140-22-7  
EEC-N : 205-403-7

### sym-Diphenylcarbazine > RPE-For analysis-ACS-Reag.Ph.Eur.-Reag.USP

RPE

Description .....White powder Loss on drying .....<= 1 % Assay (HPLC).....>= 99.0 %  
Identification.....Positive Chromate sensitivity.....Conform  
Melting point .....173 - 176 °C Sulphated ash.....<= 0.05 %

Code	Size	Packaging	Notes
443752	25g	Glass bottle	
443754	100g	Glass bottle	

Redox indicator

# DIP

## sym-Diphenylcarbazone

C<sub>6</sub>H<sub>5</sub>N:NCONHNHC<sub>6</sub>H<sub>5</sub>  
Molecular Weight 240,27  
CAS : 538-62-5  
EEC-N : 208-698-0

D

### 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	10g	Glass bottle	

Contains sym-Diphenylcarbazide. Redox indicator.

## 2,5-Diphenyloxazole

C<sub>15</sub>H<sub>11</sub>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	100g	Plastic bottle	

## 2,2'-Dipyridyl

Synonyms : 2,2'-Bipyridyl  
2,2'-Bipyridine

N:CHCH:CHCH:CC:CHCH:N  
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**

3.1.O/3; H301-3.1.D/3; H311  
P280-P301+P310-P312-P330-P405-P501a

### 2,2'-Dipyridyl > RPE-For analysis

RPE

Description .....Crystalline off-white powder Melting point .....69 - 72 ° C Iron sensitivity .....Conform  
Identification .....Positive Residue on ignition .....<= 0.1 % Assay (GLC) .....>= 99.0 %

Code	Size	Packaging	Notes
445958	5g	Glass bottle	

Reactive iron and molybdenum

## Disodium hydrogen phosphate dihydrate ▶ Sodium phosphate dibasic dihydrate

## Dithiooxamide

Synonyms : Rubenic acid  
Dithiooxalic diamide

NH<sub>2</sub>CSCSNH<sub>2</sub>  
Molecular Weight 120,2  
CAS : 79-40-3  
EEC-N : 201-203-9



**Warning**

3.1.O/4; H302-3.2/2; H315-3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

### Dithiooxamide > RPE-For analysis

RPE

Description .....Red orange crystals Residue on ignition .....<=500 ppm Assay (ex nitrogen) .....>=98 %  
Identification .....Positive Copper sensitivity .....<= 0.05 µg/ml

Code	Size	Packaging	Notes
446008	5g	Plastic bottle	



## Dodecylbenzenesulphonic acid sodium salt

C<sub>12</sub>H<sub>25</sub>.C<sub>6</sub>H<sub>4</sub>.SO<sub>3</sub>Na  
Molecular Weight 348,49  
CAS : 25155-30-0  
EEC-N : 246-680-4



### Warning

3.1.0/4; H302  
P264-P270-P330-P301+P312-P501a

### Dodecylbenzenesulphonic acid sodium salt > RS-For surfactants detection

RS

Description.....White-yellowish crystalline powder pH sol. 1% .....6.5 - 9.5 Assay .....> 83 %  
Identification.....Positive Water .....< 2 %

Code	Size	Packaging	Notes
405351	10g	Glass bottle	

Minimum 90% biodegradability

## Dulcitol

CH<sub>2</sub>OH(CHOH)<sub>4</sub>CH<sub>2</sub>OH  
Molecular Weight 182,17  
CAS : 608-66-2  
EEC-N : 210-165-2

### Dulcitol > RPE-For analysis

RPE

Description .....White powder Loss on drying .....<= 0.1 % As .....<= 0.5 ppm  
Identification.....Positive Residue on ignition .....<= 0.1 % Fe.....<= 5 ppm  
Melting point .....188 - 189 °C Heavy metals (Pb).....<= 10 ppm Assay (GLC).....>= 99.0 %

Code	Size	Packaging	Notes
446158	5g	Glass bottle	

## Dysprosium standard solution

### Dysprosium standard solution > RS-Standard for ICP-MS

RS

Code	Size	Packaging	Notes
505581	50ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505582	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505585	100ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid

### Dysprosium standard solution > RS-Standard for ICP

RS

Code	Size	Packaging	Notes
504231	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
504235	100ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
504233	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
504237	500ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

## EDTA ▶ Ethylenediaminetetraacetic acid

## Ehrlich's reagent

### Classification transport

ONU: 3264  
Transport Hazard class: 8  
Packing group III



### Danger

3.2/1B; H314-3.8/3; H335-3.3/2; H319  
P260-P261-P304+P340-P305+P351+P338-P405-P501a

### Ehrlich's reagent > RS-For microscopy

RS

Description.....Yellow clear liquid Identification.....Positive

Code	Size	Packaging	Notes
E446302	500ml	Glass bottle	

Acetic acid glacial .....	2	Glycerol .....	220	Nitric acid 65% .....	355
Acetone .....	9	Hydrochloric acid 37% .....	239	Orthophosphoric acid 85% .....	365
Ammonia solution 30% .....	28	Hydrofluoric acid 50% .....	250	Potassium hydroxide, pellets .....	410
Ammonia solution 25% .....	30	Hydrofluoric acid 39.5% .....	252	Potassium hydroxide solution 45% .....	411
Ammonium fluoride solution 40% .....	39	Hydrogen peroxide solution 30% .....	254	Sodium hydroxide, pellets .....	477
Dichloromethane .....	158	Propan-2-ol .....	429	Sodium hydroxide solution 35% .....	479
Ethanol absolute anhydrous .....	185	Methanol .....	320	Sulfuric acid 96% .....	527
Ethyl acetate .....	193	Nitric acid 69.5% .....	353	Xylene, mix of isomers .....	577

## Eluent sodium bicarbonate

### Eluent sodium bicarbonate > RS-Eluent for ion chromatography

RS

Code	Size	Packaging	Notes
504534	100ml	Plastic bottle	0,17 M Sodium bicarbonate

## Eluent sodium carbonate

### Eluent sodium carbonate > RS-Eluent for ion chromatography

RS

Code	Size	Packaging	Notes
504533	100ml	Plastic bottle	0,5 M Sodium carbonate

## Eluent sodium carbonate/sodium bicarbonate

### Eluent sodium carbonate/sodium bicarbonate > RS-Eluent for ion chromatography

RS

Code	Size	Packaging	Notes
504530	100ml	Plastic bottle	0,18 M Sodium carbonate / 0,17 M Sodium bicarbonate
504531	100ml	Plastic bottle	0,22 M Sodium carbonate / 0,28 M Sodium bicarbonate
504532	100ml	Plastic bottle	0,35 M Sodium carbonate / 0,1 M Sodium bicarbonate

## Eosin B

C<sub>20</sub>H<sub>6</sub>Br<sub>2</sub>N<sub>2</sub>Na<sub>2</sub>O<sub>9</sub>  
 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 Absorbion ind.sensit.....Conform

Code	Size	Packaging	Notes
446602	25g	Glass bottle	

*Dye for microscopy (histology). Absorbance and fluorescence indicator.*

## Eosin Y

C<sub>20</sub>H<sub>6</sub>Br<sub>4</sub>Na<sub>2</sub>O<sub>5</sub>  
 Molecular Weight 691,86  
 CAS : 17372-87-1  
 EEC-N : 241-409-6



### Warning

3.1.D/4; H312-3.1.I/4; H332  
 P261-P271-P280-P304+P340-P312-P501a

### 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	25g	Glass bottle	
446634	100g	Plastic bottle	

*Dye for histology.*

## Eosin Y solution aqueous

C<sub>20</sub>H<sub>6</sub>Br<sub>4</sub>Na<sub>2</sub>O<sub>5</sub>  
Molecular Weight 691,86  
CAS : 17372-87-1

**Classification transport**  
ONU: 1993

**Danger**  
2.6/2; H225  
P210-P241-P243-P303+P361+P353-P403+P235-P501a

### Eosin Y solution aqueous > RS-For microscopy-C.I. 45380

RS

Description .....Brown liquid Maximum absorption .....515-518 nm  
Identification .....Positive A 1%/1cm (0.005 g/l)..... 1200-1400 nm

Code	Size	Packaging	Notes
446644	1l	Glass bottle	

Dye for histology.

## Eosin Y solution alcoholic

C<sub>20</sub>H<sub>6</sub>Br<sub>4</sub>Na<sub>2</sub>O<sub>5</sub>  
Molecular Weight 691,86  
CAS : 17372-87-1

**Classification transport**  
ONU: 1993

**Danger**  
2.6/2; H225  
P210-P241-P243-P303+P361+P353-P403+P235-P501a

### Eosin Y solution alcoholic > RS-For microscopy-C.I. 45380

RS

Description .....Red clear liquid Maximum absorption .....515-518 nm  
Identification (I.R.).....Positive A 1%/1cm (0.005 g/l)..... 1200-1400 nm

Code	Size	Packaging	Notes
446664	1l	Glass bottle	

Dye for histology.

## ERBAPharm : raw material for pharmaceutical production

Acetic acid glacial .....2	D(+)-Glucose monohydrate.....219	Silver nitrate .....457
Acetone .....9	Glycerol .....220	Sodium acetate trihydrate .....464
Aluminum chloride hexahydrate.....23	Glycine .....221	Sodium acetate anhydrous .....463
Aluminum potassium sulfate dodecahydrate.....26	Gum arabic.....225	Sodium alginate.....464
p-Aminobenzoic acid.....27	Hydrochloric acid 37% .....239	Sodium benzoate .....466
Ammonia solution 28% .....29	Hydrochloric acid 10% .....243	Sodium bromide .....467
Ammonium carbonate .....34	Hydrogen peroxide solution 30% .....254	Sodium carbonate anhydrous .....468
Ammonium chloride .....36	Hydrogen peroxide solution 3% .....255	Sodium carbonate monohydrate.....469
Benzalkonium chloride.....65	Iodine.....265	Sodium carbonate decahydrate .....468
Benzoic acid.....66	Iron (II) sulfate heptahydrate.....270	Sodium chloride .....470
Benzyl alcohol.....68	Lactic acid .....285	Sodium citrate tribasic anhydrous .....472
Benzyl benzoate .....69	Lactose.....286	Sodium citrate tribasic dihydrate .....473
Boric acid .....73	Lanolin anhydrous .....286	Sodium phosphate monobasic monohydrate .....498
Di-n-butylphthalate .....176	Magnesium carbonate basic .....301	Sodium phosphate dibasic dihydrate .....497
Caffeine anhydrous.....98	Magnesium chloride hexahydrate .....302	Sodium glycerophosphate pentahydrate.....476
Calcium acetate monohydrate.....99	Magnesium hydroxide .....303	Sodium bicarbonate .....466
Calcium carbonate .....100	Magnesium oxide, heavy.....304	Sodium citrate dibasic sesquihydrate .....472
Calcium chloride hexahydrate .....102	Magnesium stearate .....305	Sodium phosphate dibasic anhydrous .....495
Calcium chloride dihydrate .....101	Magnesium sulfate heptahydrate .....306	Sodium phosphate dibasic dihydrate .....496
Calcium gluconate.....104	Maleic acid .....307	Sodium phosphate dibasic dodecahydrate .....496
Calcium phosphate dibasic dihydrate.....106	D-Mannitol.....312	Sodium hydroxide, pellets .....477
Calcium hydroxide.....104	L-Menthol.....314	Sodium hydroxide, pearls .....477
Calcium lactate .....105	Methanol.....320	Sodium hydroxide solution 30% .....480
Calcium pantothenate .....106	Methyl 4-hydroxybenzoate .....330	Sodium iodide .....489
Calcium phosphate tribasic .....106	Methyl salicylate .....334	Sodium metabisulfite .....490
Calcium stearate.....107	Nicotinamide .....350	Sodium nitrite .....493
Calcium sulfate dihydrate .....108	Oil refined of almonds.....363	Sodium salicylate .....499
Camphor natural.....109	Orthophosphoric acid 85% .....365	Sodium stearate vegetal .....500
Camphor synthetic .....109	Paraffin oil.....372	Sodium sulfite anhydrous .....502
Castor oil .....113	Paraffin white soft .....373	Sodium tetraborate decahydrate.....504
Cetyl alcohol .....116	Phenol .....385	Sodium thiosulfate pentahydrate .....505
Chlorobutanol.....120	2-Phenylethanol.....388	Sorbitol .....508
Chloroform.....121	Potassium acetate.....397	Sorbitol (no crystallizable) solution 70% .....508
Cholesterol .....127	Potassium bromide .....399	Start-up Kit Nitrates .....517
Citric acid anhydrous.....132	Potassium chloride .....400	Maize starch .....307
Citric acid monohydrate .....132	Potassium citrate tribasic.....403	Rice starch .....443
Copper (II) sulfate pentahydrate.....142	Potassium phosphate monobasic .....422	Stearic acid .....518
Dichloromethane .....158	Potassium bicarbonate.....397	D(+)-Sucrose .....522
Diethanolamine.....163	Potassium hydroxide, pellets .....410	Sulfuric acid 96%.....527
Diethyl ether.....165	Potassium hydroxide, flakes .....409	Talc .....536
Diethyl phthalate.....167	Potassium iodide.....416	Tannic acid .....537
Ethanol absolute anhydrous .....185	Potassium metabisulfite.....418	L(+) Tartaric acid .....537
Ethanol 96° .....188	Potassium nitrate.....418	Thymol.....548
Ethanol 70 % v/v .....189	Potassium permanganate .....419	Titanium dioxide .....553
Ethanol 20% v/v .....190	Potassium sodium tartrate tetrahydrate.....424	Triethanolamine.....562
Ethyl acetate.....193	Propan-2-ol .....429	Tris (hydroxymethyl)-aminomethane .....567
Ethylenediaminetetraacetic acid .....197	Propan-2-ol 70%.....432	Vanillin.....573
Ethylenediaminetetraacetic acid disodium salt .....198	Propyl p-hydroxybenzoate.....433	Water purified .....576
Formaldehyde 35% w/w .....210	Propylene glycol .....434	Zinc chloride anhydrous .....583
Formic acid 99% .....213	Quinine anhydrous .....438	Zinc oxide .....585
Fumaric acid.....215	Salicylic acid .....445	Zinc stearate .....585
D(+)-Glucose anhydrous .....219	Silicon dioxide.....453	Zinc sulfate heptahydrate .....586

Product specifications are subject to changes.  
Please visit our website for updates.

Acetic acid 1 mol/l (1N).....7	Hydrochloric acid 2 mol/l (2N).....246	Sodium hydroxide 1 mol/l (1N) .....484
Ethanol 50% v/v .....190	Hydrochloric acid 1 mol/l (1N).....246	Sodium hydroxide 0.5 mol/l (N/2) .....485
Hydrochloric acid 5% .....244	Hydrochloric acid 0.1 mol/l (0.1N) .....248	Sodium hydroxide 0.25 mol/l (N/4) .....486
Hydrochloric acid 6 mol/l (6N).....244	Propan-2-ol 70%.....432	Sodium hydroxide 0.1 mol/l (N/10) .....487
Hydrochloric acid 4 mol/l (4N).....245	Sodium hydroxide 3 mol/l (3N) .....483	

### Erbium standard solution

E

#### Erbium standard solution > RS-Standard for ICP-MS

RS

Code	Size	Packaging	Notes
505591	50ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505592	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505595	100ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid

#### Erbium standard solution > RS-Standard for ICP

RS

Code	Size	Packaging	Notes
504241	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
504245	100ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
504243	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
504247	500ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

### Eriochrome black T

Synonym : Mordant Black 11

C<sub>20</sub>H<sub>12</sub>Na<sub>3</sub>NaO<sub>7</sub>S  
Molecular Weight 461,39  
CAS : 1787-61-7  
EEC-N : 217-250-3



Warning

3.3/2; H319  
P280-P264-P305+P351+P338-P337+P313

#### Eriochrome black T > RPE-For analysis-C.I. 14645

RPE

Description .....Blackish brown powder    Loss on drying .....<= 10 %  
Identification.....Positive    Sensitivity .....Conform

Code	Size	Packaging	Notes
464221	10g	Glass bottle	

Complexometric indicator.

### Eriochromocyanine R

C<sub>23</sub>H<sub>15</sub>Na<sub>3</sub>O<sub>5</sub>S  
Molecular Weight 536,4  
CAS : 3564-18-9  
EEC-N : 222-641-7



Warning

3.2/2; H315-3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

#### Eriochromocyanine R > RPE-For analysis-C.I. 43820

RPE

Description .....Red brick powder    Identification.....Positive    Aluminium sensitivity.....>=1 µg/ml

Code	Size	Packaging	Notes
446811	10g	Glass bottle	

For the determination of Al. Complexometric indicator

## Erythrosin extra B

C<sub>20</sub>H<sub>61</sub>O<sub>5</sub>Na<sub>2</sub>  
Molecular Weight 879,8  
CAS : 16423-68-0  
EEC-N : 240-474-8



Warning

3.1.O/4; H302  
P264-P270-P330-P301+P312-P501a

## Erythrosin extra B &gt; RS-For microscopy-C.I. 45430

RS

Description .....Red brown powder Absorbance at 524-527 nm .....Conform  
Identification.....Positive Specific absorptivity 1%/1cm.....930-1170

Code	Size	Packaging	Notes
446971	100g	Bottle	

Dye for histology.

## Esbach's reagent

## Esbach's reagent &gt; RS-For microscopy

RS

Description.....Yellow clear liquid Identification.....Positive

Code	Size	Packaging	Notes
446981	1l	Plastic bottle	

For the determination of albumin.

## Ethanol absolute anhydrous

C<sub>2</sub>H<sub>5</sub>OH  
Molecular Weight 46  
CAS : 64-17-5  
EEC-N : 200-578-6

## Classification transport

ONU: 1170  
Transport Hazard class: 3  
Packing group II



Danger

2.6/2; H225  
P210-P241-P243-P303+P361+P353-P403+P235-P501a

## Ethanol absolute anhydrous &gt; RS-For HPLC PLUS-Gradient

RS

Description .....Clear colourless liquid Water (K.F.).....<=0.05 % U.V. Transmittance At 260 nm .....>= 98 %  
Identification.....Positive Residue on evaporation .....<=5 ppm At 210 nm .....>= 270 nm .....>= 99 %  
Density at 20° C.....0.7893 - 0.7899 Assay (GLC).....>=50 % At 220 nm .....>=50 % Acetal + acetaldehyde.....<= 10 ppm(v/v)  
Refractive index at 20°C .....1.3602 - 1.3622 Fluorescence At 230 nm .....>=75 % HPLC Gradient  
Boiling point .....78.3 - 78.8 ° C At 254 nm .....<=2 ppb At 240 nm .....>= 85 % At 235 nm .....<= 5 mAU  
Acidity or alkalinity.....<=0.0002 meq/g At 365 nm .....<=2 ppb At 250 nm .....>=90 % At 254 nm .....<= 2 mAU

Code	Size	Packaging	Notes
412701	1l	Glass bottle	Only for Italian market
4127012	1l	Glass bottle	
4127032	1l	Glass bottle PVC coated	
412702	2,5l	Glass bottle	Only for Italian market
4127022	2,5l	Glass bottle	

## Ethanol absolute anhydrous &gt; RS-For HPLC Isocratic-ACS-Reag.Ph.Eur-Reag.USP

RS

Assay (alcoholic) at 20°C .....>= 99.5 %v/v From 235 to 340 nm .....Smooth curve Acidity .....<= 0.0005 meq/g  
Description .....Clear colourless liquid Organic volatile impurities .....Conform Ph.Eur. Alkalinity .....<= 0.0002 meq/g  
Boiling point .....>= 78 ° C Residue on evaporation .....<= 25 ppm(m/v) Methyl alcohol .....<= 0.1 %  
Identification (I.R.) .....Positive Ph.Eur. Methyl alcohol .....<= 0.005 %v/v Substances darkened by H<sub>2</sub>SO<sub>4</sub> .....Conform  
Acidity or alkalinity.....<= 30 ppm Water (K.F.).....<= 0.2 % Subs. reducing KMnO<sub>4</sub> .....Conform  
Density at 20°C .....0.791 - 0.793 Ph.Eur. Colour.....<= 10 APHA Transmittance  
Absorbance UV (5cm, ref. water) Solubility in water .....Conform At 210 nm .....>= 20 %  
At 240 nm .....<= 0.40 AU Residue on evaporation .....<= 0.001 % At 240 nm .....>= 80 %  
From 250 to 260 nm .....<= 0.30 AU Acetone .....Conform At 260 nm .....>= 98 %  
From 270 to 340 nm .....<= 0.10 AU Isopropyl alcohol .....Conform

Code	Size	Packaging	Notes
524120	2,5l	Glass bottle	

Product specifications are subject to changes.  
Please visit our website for updates.

## Ethanol absolute anhydrous > RS-For HPLC Isocratic

RS

Description .....	Clear colourless liquid	Acidity or alkalinity.....	<=0.0002 meq/g	At 210 nm.....	>=25 %	At 270 nm.....	>=94 %
Identification.....	Positive	Water (K.F.).....	<=0.05 %	At 220 nm.....	>=50 %	At 290 nm.....	>=97 %
Density at 20° C.....	0.7893 - 0.7899	Residue on evaporation .....	<=5 ppm	At 230 nm.....	>=75 %		
Refractive index at 20°C .....	1.3602 - 1.3622	Assay (GLC).....	>=99.9 %	At 240 nm.....	>= 80 %		
Boiling point .....	78.3 - 78.8 ° C	<b>U.V. Transmittance</b>		At 250 nm.....	>=90 %		

Code	Size	Packaging	Notes
412522	2,5l	Glass bottle	Only for Italian market
4125222	2,5l	Glass bottle	

## Ethanol absolute anhydrous > RS-SPECTROSOL - For optical spectroscopy

RS

Description .....	Clear colourless liquid	Water (K.F.).....	<=0.2 %	At 365 nm.....	<=2 ppb	At 250 nm.....	>=89 %
Identification.....	Positive	Residue on evaporation .....	<=10 ppm	<b>U.V. Transmittance</b>		At 270 nm.....	>=94 %
Density at 20° C.....	0.7893 - 0.7899	Assay (GLC).....	>=99.8 %	At 210 nm.....	>=25 %	At 290 nm.....	>=97 %
Boiling point .....	78.3 - 78.8 ° C	<b>Fluorescence</b>		At 220 nm.....	>=50 %		
Acidity or alkalinity.....	<=0.0002 meq/g	At 254 nm.....	<=2 ppb	At 230 nm.....	>=75 %		

Code	Size	Packaging	Notes
414677	1l	Glass bottle	Only for Italian market
4146772	1l	Glass bottle	

## Ethanol absolute anhydrous > RS-Anhydrous-For analysis

RS

Refractive index at 20°C .....	1.358 - 1.362	Alcohol content (20°C) .....	>= 99.9 % V/V	Free acid (as CH <sub>3</sub> COOH) .....	<= 10 mg/Kg
Water content (K.F.).....	<= 200 mg/Kg	Non volatile residue .....	<= 10 mg/Kg	Aldehydes (as acetaldehyde).....	<= 3 mg/Kg
Colour.....	<= 10 Hazen	Assay (GC).....	>= 99.8 %	Esters (as CH <sub>3</sub> COOC <sub>2</sub> H <sub>5</sub> ).....	<= 25 mg/Kg

Code	Size	Packaging	Notes
P013A1010	200ml	Bottle with sept	
P013A1016	1l	Glass bottle	
P013A1021	2,5l	Glass bottle	

## Ethanol absolute anhydrous > RS-VLSI For electronic use

RS

Code	Size	Packaging	Notes
527680	2,5l	Glass bottle	

## Ethanol absolute anhydrous > RS-RSE For electronic use

RS

Description .....	Clear colourless liquid	Chloride .....	<=0.2 ppm	Ca.....	<=0.5 ppm	Ni .....	<=0.01 ppm
Colour.....	<=10 APHA	Carbonyl Compounds (CO) .....	<=10 ppm	Cd.....	<=0.01 ppm	Pb.....	<=0.02 ppm
Identification.....	Positive	Total phosphorus .....	<=0.1 ppm	Co.....	<=0.01 ppm	Pt.....	<=0.05 ppm
Water miscibility .....	Conform	Heavy metals (Pb).....	<=0.2 ppm	Cr.....	<=0.02 ppm	Sb.....	<=0.01 ppm
Ready carbonizable substances .....	Conform	Subst. reducing KMnO <sub>4</sub> .....	<=2.5 ppm	Cu.....	<=0.02 ppm	Sn.....	<=0.02 ppm
Density at 20° C.....	0.790 - 0.793	Total sulphur.....	<=1 ppm	Fe.....	<=0.1 ppm	Sr.....	<=0.02 ppm
Boiling point .....	78.3 - 78.8 ° C	Ag.....	<=0.02 ppm	Ga.....	<=0.02 ppm	Ti.....	<=0.05 ppm
Resistivity .....	>=0.5 Mohm cm	Al.....	<=0.05 ppm	In.....	<=0.02 ppm	Tl.....	<=0.05 ppm
Assay(alcohol.) at 20°C.....	>=99.9 %	As.....	<=0.01 ppm	K.....	<=0.1 ppm	V.....	<=0.05 ppm
Water (K.F.).....	<=0.1 %	Au.....	<=0.05 ppm	Li.....	<=0.02 ppm	Zn.....	<=0.03 ppm
Residue on evaporation .....	<=10 ppm	B.....	<=0.01 ppm	Mg.....	<=0.1 ppm	Zr.....	<=0.05 ppm
Acidity (acetic acid) .....	<=10 ppm	Ba.....	<=0.1 ppm	Mn.....	<=0.01 ppm		
Alcalinity (NH <sub>3</sub> ) .....	<=1 ppm	Be.....	<=0.02 ppm	Mo.....	<=0.05 ppm		
Methyl alcohol.....	<=100 ppm	Bi.....	<=0.02 ppm	Na.....	<=0.5 ppm		

Code	Size	Packaging	Notes
414587	1l	Glass bottle	Only for Italian market
4145872	1l	Glass bottle	
414583	2,5l	Glass bottle	Only for Italian market
4145832	2,5l	Glass bottle	

## ▶ Ethanol absolute anhydrous &gt; RPE-For analysis-ACS-Reag.Ph.Eur.-Reag.USP

Description .....	Clear colourless liquid	Isopropyl alcohol .....	<= 30 ppm	Ca .....	<= 0.5 ppm
Colour .....	<= 10 APHA	Methyl alcohol .....	<= 100 ppm	Cd .....	<= 0.05 ppm
Identification (I.R.) .....	Positive	Benzene .....	<= 2 ppm(v/v)	Co .....	<= 0.02 ppm
Water miscibility .....	Complete	Carbonyl compounds (CO) .....	<= 5 ppm	Cr .....	<= 0.02 ppm
Density at 20°C .....	0.7893 - 0.7899	Subs. reducing KMnO4 .....	<= 3 ppm	Cu .....	<= 0.02 ppm
Density at 20°C .....	0.790 - 0.793 Ph.Eur.	Heavy metals (Pb) .....	<= 1 ppm	Fe .....	<= 0.1 ppm
Boiling point .....	78.3 - 78.8 °C	Absorbance UV (5cm, ref. water) .....	Conform	Mg .....	<= 0.1 ppm
Refractive index at 20°C .....	1.3602 - 1.3622	Assay (CPG) .....	>= 99.9 %	Mn .....	<= 0.02 ppm
Water (K.F.) .....	<= 0.1 %	Assay (alcohometric) at 20°C .....	>= 99.9 %v/v	Ni .....	<= 0.02 ppm
Residue on evaporation .....	<= 10 ppm	Volatil impurities .....	Conform	Pb .....	<= 0.1 ppm
Substances darkened by H2SO4 .....	Conform	Al .....	<= 0.5 ppm	Sn .....	<= 0.1 ppm
Acidity (acetic acid) .....	<= 10 ppm	B .....	<= 0.02 ppm	Acetal + acetaldehyde .....	<= 10 ppm(v/v)
Alcalinity (NH3) .....	<= 1 ppm	Ba .....	<= 0.1 ppm		

Code	Size	Packaging	Notes
414601	1l	Plastic bottle	Only for Italian market
414607	1l	Glass bottle	Only for Italian market
4146012	1l	Plastic bottle	
4146072	1l	Glass bottle	
414605	2,5l	Plastic bottle	Only for Italian market
414608	2,5l	Glass bottle	Only for Italian market
4146052	2,5l	Plastic bottle	
4146082	2,5l	Glass bottle	
414603	5l	Aluminium can	
414606	5l	Plastic bottle	
524125	5l	Plastic tank	
414604	10l	Plastic tank	
414609	25l	Plastic tank	
414602	200l	Plastic drum	

## ▶ Ethanol absolute anhydrous &gt; ERBAPharm-According to pharmacopoeia: Ph.Eur.-USP-BP-JP

ERBAPharm

Description .....	Clear colourless liquid	Assay (alcohometric) at 15,56°C .....	>= 99.5 % (v/v)	Water (K.F.) .....	<= 0.1 %
Identification (I.R.) .....	Positive	Assay (alcohometric) at 20°C .....	>= 99.5 %v/v	Absorbance UV (5cm, ref. water) .....	Pass test
Color of solution .....	Pass test	Acidity or alkalinity .....	<= 30 ppm	At 240 nm .....	<= 0.40 AU
Clarity of solution .....	Pass test	Volatil impurities .....	Pass test	From 250 to 260 nm .....	<= 0.30 AU
Density at 20°C .....	0.790 - 0.793	Methyl alcohol .....	<= 200 ppm(v/v)	From 270 to 340 nm .....	<= 0.10 AU
Density at 15.56°C .....	<= 0.7962	Acetal + acetaldehyde .....	<= 10 ppm(v/v)	From 235 to 340 nm .....	Smooth curve
Boiling point .....	78 - 79 °C	Benzene .....	<= 2 ppm(v/v)	Origin (BSE/TSE) .....	Vegetable
Residue on evaporation .....	<= 25 ppm(m/v)	Total other impurities .....	<= 300 ppm(v/v)	Residual solvents (CPMP/ICH/283/95) .....	Conform

Code	Size	Packaging	Notes
529121	1l	Glass bottle	
308661	2,5l	Plastic bottle	Only for Italian market
308662	2,5l	Glass bottle	Only for Italian market
3086612	2,5l	Plastic bottle	
3086622	2,5l	Glass bottle	
529122	5l	Plastic tank	
529124	10l	Plastic tank	
308664	25l	Polythene-metal drum	
308667	25l	Plastic tank	
529125	200l	Metal drum	

## ▶ Ethanol absolute anhydrous &gt; RE-Pure

RE

Description .....	Clear colourless liquid	Boiling point .....	78.0 - 79.0 °C	Acidity (acetic acid) .....	<= 50 ppm
Identification .....	Positive	Water (K.F.) .....	<= 0.1 %	Assay(alcohol) at 20°C .....	>= 99.9 % (v/v)
Density at 20°C .....	0.7866 - 0.7926	Residue on evaporation .....	<= 30 ppm		

Code	Size	Packaging	Notes
308602	1l	Plastic bottle	Only for Italian market
308607	1l	Glass bottle	Only for Italian market
308608	1l	Plastic bottle	Origin : synthesis
3086022	1l	Plastic bottle	
3086072	1l	Glass bottle	
308603	2,5l	Glass bottle	Only for Italian market
308605	2,5l	Plastic bottle	Only for Italian market
3086032	2,5l	Glass bottle	
3086052	2,5l	Plastic bottle	
528131	5l	Plastic tank	
308609	10l	Plastic tank	
308601	25l	Metal tank	
308604	25l	Plastic tank	
308600	200l	Metal drum	

C<sub>2</sub>H<sub>5</sub>OH  
Molecular Weight 46  
CAS : 64-17-5  
EEC-N : 200-578-6

### Classification transport

ONU: 1170  
Transport Hazard class: 3  
Packing group II



### Danger

2.6/2; H225  
P210-P241-P243-P303+P361+P353-P403+P235-P501a

### Ethanol 96° > RS-SPECTROSOL - For optical spectroscopy

RS

Description .....	Clear colourless liquid	Acidity or alkalinity .....	<=0.0005 meq/g	At 365 nm .....	<=2 ppb	At 250 nm .....	>=90 %
Colour .....	<=10 APHA	Residue on evaporation .....	<=10 ppm	<b>U.V. Transmittance</b>		At 270 nm .....	>=98 %
Identification (I.R.) .....	Positive	Assay (alcoholic) at 20°C .....	>=96.0 % (v/v)	At 210 nm .....	>=35 %		
Appearance of solution .....	Conform USP	<b>Fluorescence</b>		At 220 nm .....	>=55 %		
Absorbance .....	Conform Ph.Eur.	At 254 nm .....	<=2 ppb	At 230 nm .....	>=72 %		
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						

Code	Size	Packaging	Notes
414667	1l	Glass bottle	Only for Italian market
4146672	1l	Glass bottle	

### Ethanol 96° > RS-For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611002501	1l	Glass bottle	Ref Ph.Eur 1002501

### Ethanol 96° > RPE-For analysis-ACS-Reag.Ph.Eur.-Reag.USP

RPE

Description .....	Clear liquid	Acidity (acetic acid) .....	<=30 ppm	Cr .....	<=0.02 ppm
Colour .....	<=10 APHA	Alkalinity (NH <sub>3</sub> ) .....	<=0.0002 meq/g	Cu .....	<=0.02 ppm
Identification (I.R.) .....	Positive	Alcole isopropilico-acetone .....	Conform	Fe .....	<=0.1 ppm
Appearance of solution .....	Conform USP	Methyl alcohol .....	<=0.1 %	Mg .....	<=0.1 ppm
Absorbance .....	Conform Ph.Eur.	Carbonyl Compounds (CO) .....	<=5 ppm	Mn .....	<=0.02 ppm
Volatile impurities .....	Conform Ph.Eur.	Acetal + acetaldehyde .....	<= 10 ppm(v/v)	Ni .....	<=0.02 ppm
Water miscibility .....	Conform ACS	Subst. reducing KMnO <sub>4</sub> .....	<=3 ppm	Pb .....	<=0.1 ppm
Substances darkened by sulphuric acid .....	Conform ACS	Ba .....	<=0.1 ppm	Sn .....	<=0.1 ppm
Density at 20° C .....	0.8050 - 0.8124	Ca .....	<=0.5 ppm	Zn .....	<=0.1 ppm
Boiling point .....	78.0 - 79.0 ° C	Cd .....	<=0.05 ppm	Assay (alcoholic) at 20°C .....	96.0 - 96.9 % (v/v)
Residue on evaporation .....	<=10 ppm	Co .....	<=0.02 ppm	Assay (GLC) .....	>=95.0 %

Code	Size	Packaging	Notes
414634	1l	Plastic bottle	Only for Italian market
414637	1l	Glass bottle	Only for Italian market
4146342	1l	Plastic bottle	
4146372	1l	Glass bottle	
414631	2,5l	Glass bottle	Only for Italian market
414632	2,5l	Plastic bottle	Only for Italian market
4146312	2,5l	Glass bottle	
4146322	2,5l	Plastic bottle	
414635	5l	Plastic tank	
414638	10l	Plastic tank	
414639	25l	Plastic tank	
414633	200l	Plastic drum	

### Ethanol 96° > ERBAPharm-According to pharmacopoeia: Ph.Eur.-Microbiological tested

ERBAPharm

Description .....	Clear colourless liquid	Density at 20°C .....	0.805 - 0.812	Total aerobic microbial count (TAMC) .....	<= 5 CFU/100ml
Identification (I.R.) .....	Positive	Boiling point .....	78 - 79 °C	Total yeasts/mould count (TYMC) .....	<= 5 CFU/100ml
Appearance of solution .....	Pass test	Residue on evaporation .....	<= 0.0025 % (m/v)	<b>Test of specified micro-organisms</b>	
Acidity or alkalinity .....	Pass test	Assay (alcoholic) at 20°C .....	95.1 - 96.9 % (v/v)	Enterobacteriaceae .....	Absent/100 ml
Absorbance UV (5cm, ref. water) .....	Pass test	Origin (BSE/TSE) .....	Vegetable	Staphylococcus aureus .....	Absent/100 ml
Volatile impurities .....	Pass test	Residual solvents (CPMP/ICH/283/95) .....	Conform	Pseudomonas aeruginosa .....	Absent/100 ml

Code	Size	Packaging	Notes
524135	5l	Plastic tank	
524132	25l	Plastic tank	



## ▶ Ethanol 96° &gt; ERBAPharm-According to pharmacopoeia: Ph.Eur.-USP

Description	Clear colourless liquid	Absorbance	Conform Ph.Eur.	Appearance of solution	Conform Ph.Eur.
Identification	Positive	Volatile impurities	Conform Ph.Eur.	Boiling point	~ 78 °C
Density at 20° C	0.805 - 0.812	Residue on evaporation	<= 0.0025 % m/v	Origin (BSE/TSE)	Vegetable
Density at 15.5°C	0.812 - 0.816	Assay(densim.) at 15.5°	94.9 - 96.0 % v/v	Residual solvents (CPMP/ICH/283/95)	Conform
Acidity or alkalinity	Conform Ph.Eur.	Assay(alcohol.) at 20°C	95.1 - 96.9 % v/v		

Code	Size	Packaging	Notes
308644	1l	Plastic bottle	Only for Italian market
308647	1l	Glass bottle	Only for Italian market
3086442	1l	Plastic bottle	
3086472	1l	Glass bottle	
308641	2,5l	Glass bottle	Only for Italian market
308649	2,5l	Plastic bottle	Only for Italian market
3086412	2,5l	Glass bottle	
3086492	2,5l	Plastic bottle	
529141	5l	Plastic tank	
308646	10l	Plastic tank	
308645	25l	Plastic tank	
308648	27l	Polythene-metal drum	
308640	200l	Metal drum	

## ▶ Ethanol 96° &gt; RE-Pure

RE

Description	Clear colourless liquid	Acidity (acetic ac)	<= 0.005 %	Assay (alcohol)	95 - 96.9 % (v/v)
Colour	<= 10 APHA	Boiling point	78 - 79.5 °C	Assay (GLC)	>= 99 %
Identification	Positive	Density	0.805 - 0.8125		
Water miscibility	Complete	Residue on evaporation	<= 25 ppm		

Code	Size	Packaging	Notes
528151	5l	Plastic tank	
528152	10l	Plastic tank	
528154	20l	Plastic tank	
529152	25l	Plastic tank	
528153	200l	Metal drum	

## Ethanol 70 % v/v

C<sub>2</sub>H<sub>5</sub>OH  
Molecular Weight 46  
CAS : 64-17-5  
EEC-N : 200-578-6

## Classification transport

ONU: 1170  
Transport Hazard class: 3  
Packing group II



Danger

2.6/2; H225  
P210-P241-P243-P303+P361+P353-P403+P235-P501a

## ▶ Ethanol 70 % v/v &gt; ERBAPharm-According to pharmacopoeia: Ph.Eur.

ERBAPharm

Description	Clear colourless liquid	Identity (IR)	Positive	Assay (alcohol)	69 - 71 % (v/v)
-------------	-------------------------	---------------	----------	-----------------	-----------------

Code	Size	Packaging	Notes
529187	500ml	Spray	20 units / box
529189	5l	Plastic tank	
529183	200l	Metal drum	
529242	200l	Plastic drum	

## ▶ Ethanol 70 % v/v &gt; ERBAPharm-According to pharmacopoeia: BP-Ph.Eur.

ERBAPharm

Description	Clear colourless liquid	Residue on evaporation	<= 25 ppm(m/v)	Apparent density	882.2 - 887.1 kg/m3
Volatile impurities (GC)	Passed test	Acidity (acetic acid)	<= 30 ppm	Assay (alcoholometric) at 20°C	69.0 - 71.0 %v/v

Code	Size	Packaging	Notes
529184	1l	Spray	6 units / box

## ▶ Ethanol 70 % v/v &gt; RE-Pure

RE

Description	Clear liquid	Alcalinity	<= 3 ppm	Substances darkened by sulphuric acid	Conform ACS
Colour	Colorless	Methanol	<= 100 ppm	Substances reducing KMnO <sub>4</sub> (O)	<= 3 ppm
Identification	Positive	Residue on evaporation	<= 30 ppm	Assay(alcohol.) at 20°C	>= 70 % (v/v)
Acidity	<= 0.003 %	Water miscibility	Conform ACS		

Code	Size	Packaging	Notes
308771	2,5l	Plastic bottle	
528170	5l	Plastic tank	
529186	10l	Plastic tank	
308775	25l	Plastic tank	

## Ethanol 60 % v/v

C<sub>2</sub>H<sub>5</sub>OH  
Molecular Weight 46  
CAS : 64-17-5  
EEC-N : 200-578-6

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



**Danger**  
2.6/2; H225  
P210-P241-P243-P303+P361+P353-P403+P235-P501a

### Ethanol 60 % v/v > RE-Pure

RE

Description .....Clear colourless liquid Assay (alcohol).....59.0 - 61.0 % (v/v)

Code	Size	Packaging	Notes
529180	5l	Plastic tank	

## Ethanol 50% v/v

C<sub>2</sub>H<sub>5</sub>OH  
Molecular Weight 46  
CAS : 64-17-5  
EEC-N : 200-578-6

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



**Danger**  
2.6/2; H225  
P210-P241-P243-P303+P361+P353-P403+P235-P501a

### Ethanol 50% v/v > ERBAPharm-Prepared from raw material according Ph.Eur

ERBAPharm

Description .....Clear colourless liquid Acidity (acetic acid) .....<= 30 ppm Assay (alcoholometric) at 20°C .....49.0 - 51.0 %v/v  
Residue on evaporation .....<= 25 ppm Volatil impurities (GC).....Pass test

Code	Size	Packaging	Notes
529261	5l	Plastic tank	

## Ethanol 20% v/v

C<sub>2</sub>H<sub>6</sub>O  
Molecular Weight 46  
CAS : 64-17-5  
EEC-N : 200-578-6



**Warning**  
2.6/3; H226  
P210-P241-P243-P303+P361+P353-P403+P235-P501a

### Ethanol 20% v/v > ERBAPharm-According to pharmacopoeia: Ph.Eur.

ERBAPharm

Description .....Clear colourless liquid Identification (I.R.) .....Positif Assay (alcoholometric) at 20°C .....19 - 21 %v/v

Code	Size	Packaging	Notes
529252	100l	Plastic container	

## Ethanol absolute denaturated

C<sub>2</sub>H<sub>5</sub>OH  
Molecular Weight 46  
CAS : 64-17-5  
EEC-N : 200-578-6

**Classification transport**  
ONU: 1992  
Transport Hazard class: 3  
Packing group II



**Danger**  
2.6/2; H225-3.8/2; H371  
P210-P241-P309+P311-P403+P235-P405-P501a

### Ethanol absolute denaturated > RE-Pure - According to European regulation

RE

Code	Size	Packaging	Notes
528031	1l	Glass bottle	
528033	5l	Metal tank	
528034	5l	Plastic tank	
528036	10l	Plastic tank	
528032	25l	Plastic tank	

According to the commission implementing regulation (EU) No 162/2013 of 21 February 2013 amending the Annex to Regulation (EC) No 3199/93 . Eurodenaturant : 3 litres of isopropyl alcohol (IPA), 3 litres of methyl ethyl ketone (MEK) and of 1 gram of denatonium benzoate per hectolitre of absolute alcohol.

## ▶ Ethanol absolute denaturated &gt; RE-Pure - According to italian denaturing procedure

RE

Description.....Clear pink liquid Density at 15° C.....- 0,794 Assay(alcohol.) at 20°C .....>= 99,7 % (V/V)  
 Identification.....Positive Boiling point .....77 - 79 °C

Code	Size	Packaging	Notes
308651	1l	Plastic bottle	
308653	5l	Plastic bottle	
308656	10l	Plastic tank	
308655	25l	Metal tank	
308652	200l	Metal drum	

Denaturing procedures authorized only on Italian market

## Ethanol 95° denaturated

C<sub>2</sub>H<sub>5</sub>OH  
 Molecular Weight 46  
 CAS : 64-17-5  
 EEC-N : 200-578-6

## Classification transport

ONU: 1992  
 Transport Hazard class: 3  
 Packing group II



Danger

2.6/2; H225-3.8/2; H371  
 P210-P241-P309+P311-P403+P235-P405-P501a

## ▶ Ethanol 95° denaturated &gt; RE-Pure - According to European regulation

RE

Description.....Clear colourless liquid Density at 20°C.....0,808 - 0,815  
 Colour.....<= 10 APHA Assay (alcohol).....94,5 - 95,5 % (v/v)

Code	Size	Packaging	Notes
528181	1l	Glass bottle	
528185	5l	Plastic tank	
528182	10l	Plastic tank	
528183	25l	Plastic tank	
528184	200l	Metal drum	

According to the commission implementing regulation (EU) No 162/2013 of 21 February 2013 amending the Annex to Regulation (EC) No 3199/93 . Eurodenaturant : 3 litres of isopropyl alcohol (IPA), 3 litres of methyl ethyl ketone (MEK) and of 1 gram of denatonium benzoate per hectolitre of absolute alcohol.

## Ethanol 94° denaturated

C<sub>2</sub>H<sub>5</sub>OH  
 Molecular Weight 46  
 CAS : 64-17-5  
 EEC-N : 200-578-6

## Classification transport

ONU: 1170  
 Transport Hazard class: 3  
 Packing group II



Danger

2.6/2; H225  
 P210-P241-P243-P303+P361+P353-P403+P235-P501a

## ▶ Ethanol 94° denaturated &gt; RE-Pure - According to italian denaturing procedure

RE

Description.....Clear pink liquid Density at 15° C.....0,815 ÷ 0,825  
 Identification.....Positive Assay(alcohol.) at 20°C.....92 ÷ 96 %

Code	Size	Packaging	Notes
308621	1l	Plastic bottle	
308623	5l	Plastic tank	
308625	10l	Plastic tank	
308624	25l	Metal drum	

Denaturing procedures authorized only on Italian market

## Ethanol 90° denaturated

C<sub>2</sub>H<sub>5</sub>OH  
 Molecular Weight 46  
 CAS : 64-17-5  
 EEC-N : 200-578-6

## Classification transport

ONU: 1170  
 Transport Hazard class: 3  
 Packing group II



Danger

2.6/2; H225  
 P210-P241-P243-P303+P361+P353-P403+P235-P501a

## ▶ Ethanol 90° denaturated &gt; RE-Pure - According to italian denaturing procedure

RE

Description.....Clear pink liquid Density at 15° C.....0,830 - 0,840  
 Identification.....Positive Assay(alcohol.) at 20°C.....88 - 92 %


Code	Size	Packaging	Notes
308681	1l	Plastic bottle	
308683	5l	Plastic bottle	
308682	21l	Metal drum	
308687	160kg	Metal drum	

Denaturing procedures authorized only on Italian market

## Ethanol 70° modified

C<sub>2</sub>H<sub>5</sub>OH  
Molecular Weight 46  
CAS : 64-17-5  
EEC-N : 200-578-6

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

 **Danger**  
2.6/2; H225  
P210-P241-P243-P303+P361+P353-P403+P235-P501a

### 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	5l	Plastic tank	
528192	20l	Plastic tank	

Modified with camphor and tartrazine

## Ethanol denaturated with 2% methylethylketone

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

 **Danger**  
2.6/2; H225  
P210-P241-P243-P303+P361+P353-P403+P235-P501a

### Ethanol denaturated with 2% methylethylketone > RS-For analysis

RS


Description .....Clear colourless liquid Methylethylketone.....1.8 - 2.2 %

Code	Size	Packaging	Notes
524463	1l	Plastic bottle	
524461	5l	Plastic tank	

## Ethanol-d6 anhydrous

C<sub>2</sub>D<sub>5</sub>OD  
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**  
2.6/2; H225  
P210-P241-P243-P303+P361+P353-P403+P235-P501a

### Ethanol-d6 anhydrous > RS-For NMR-min 99%

RS



Code	Size	Packaging	Notes
P5262A	2x1ml	Glass ampoule	

## Ethanolamine

Synonyms : 2-Aminoethanol  
Monoethanolamine

NH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>OH  
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**  
3.2/1B; H314-3.1.0/4; H302-3.1.D/4; H312-3.1.I/4; H332  
P260-P261-P304+P340-P305+P351+P338-P405-P501a

### Ethanolamine > RPE-For analysis

RPE

Description .....Clear colourless liquid Refractive index at 20°C .....1.4491 - 1.4591 Diethanolamine .....<=0.5 % Fe.....<=1 ppm  
Identification.....Positive Boiling point .....169.5 - 170.5 °C Heavy metals (Pb) .....<=2 ppm Assay (alkalimetric) .....>=99 %  
Water miscibility .....Conform Melting point .....9.8 - 10.8 °C Sulphate.....<=20 ppm  
Alcohol miscibility .....Complete Chloride .....<=10 ppm Triethanolamine .....<=0.5 %

Code	Size	Packaging	Notes
447351	1l	Glass bottle	
447352	30kg	Aluminium can	

Hygroscopic product. Store well sealed in a dry place

Ethyl ether ► Diethyl ether

2-(2-Ethoxyethoxy)-ethanol ► Diethylene glycol monoethyl ether

## Ethyl acetate

C<sub>4</sub>H<sub>8</sub>O<sub>2</sub>  
Molecular Weight 88  
CAS : 141-78-6  
EEC-N : 205-500-4

## Classification transport

ONU: 1173  
Transport Hazard class: 3  
Packing group II



Danger

2.6/2; H225-3.3/2; H319-3.8/3; H336-EUH066  
P210-P241-P304+P340-P305+P351+P338-P403+P235-P405-P501a

E

## ► Ethyl acetate &gt; RS-For LC/MS

RS

Description .....	Clear colourless liquid	Residue on evaporation .....	<= 2 ppm	At 260 nm .....	>= 75 %	Fe .....	<= 50 ppb
Colour .....	<= 10 APHA	Acidity (acetic acid) .....	<= 0.0030 %	At 275 nm .....	>= 97 %	Na .....	<= 50 ppb
Identification (I.R.) .....	Positive	Alcalinity (NH <sub>3</sub> ) .....	<= 0.0005 %	At 300 nm .....	>= 98 %	Ca .....	<= 50 ppb
Refractive index at 20°C .....	1.370 - 1.374	Assay (CPG) .....	>= 99.95 %	<b>Metals compounds</b>		Mg .....	<= 50 ppb
Water (K.F.) .....	<= 200 ppm	<b>Transmittance</b>		Al .....	<= 50 ppb	K .....	<= 50 ppb

Code	Size	Packaging	Notes
448383	1l	Glass bottle	

## ► Ethyl acetate &gt; RS-For HPLC Isocratic

RS

Description .....	Clear colourless liquid	Boiling point .....	76.9 - 77.4 °C	Assay (GLC) .....	>= 99.9 %	At 280 nm .....	>= 98 %
Identification .....	Positive	Water (K.F.) .....	<= 200 ppm	<b>U.V. Transmittance</b>		Methyl alcohol .....	<= 100 ppm
Density at 20° C .....	0.898 - 0.902	Residue on evaporation .....	<= 2 ppm	At 260 nm .....	>= 76 %	Ethyl alcohol .....	<= 400 ppm
Refractive index at 20°C .....	1.3699 - 1.3739	Acidity or alkalinity .....	<= 0.0015 meq/g	At 270 nm .....	>= 94 %		

Code	Size	Packaging	Notes
412611000	1l	Glass bottle	
412612000	2,5l	Glass bottle	

Filtered through 0.2 µm membrane

## ► Ethyl acetate &gt; RS-For HPLC preparative-Reag.Ph.Eur.

RS

Description .....	Clear colourless liquid	Refractive index at 20°C .....	1.3699 - 1.3739	Residue on evaporation .....	<= 5 ppm	<b>U.V. Transmittance</b>	
Identification .....	Positive	Boiling point .....	76.9 - 77.4 °C	Alcalinity .....	<= 0.0002 meq/g	At 265 nm .....	>= 70 %
Density at 20° C .....	0.901 - 0.902	Water (K.F.) .....	<= 300 ppm	Assay (GLC) .....	>= 99.9 %	At 280 nm .....	>= 98 %

Code	Size	Packaging	Notes
448211	2,5l	Glass bottle	

## ► Ethyl acetate &gt; RS-ATRASOL- For trace analysis

RS

Refractive index at 20°C .....	1.37 - 1.374	Ethanol .....	<= 200 mg/Kg	<b>Retention time trichlorobenzene to mirex</b>	
Water content (K.F.) .....	<= 150 mg/Kg	Assay (GC) .....	>= 99.8 %	GC-FID. Individ. peak (hexadecane) .....	<= 5 µg/l
Colour .....	<= 10 Hazen	Free acid (as CH <sub>3</sub> COOH) .....	<= 30 mg/Kg	<b>Retention time range over toluene</b>	
Methanol .....	<= 100 mg/Kg	GC ( FID ) - NC Atrasol .....	Conform		
Non volatile residue .....	<= 2 mg/Kg	GC-ECD. Individual peak (Lindane) .....	<= 2 ng/l		

Code	Size	Packaging	Notes
P0023216	1l	Glass bottle	
P0023221	2,5l	Glass bottle	

## ► Ethyl acetate &gt; RS-PESTIPUR- For pesticide analysis

RS

Description .....	Clear liquid	Assay (GLC) .....	>= 99.8 %	Free acid (as CH <sub>3</sub> COOH) .....	<= 30 mg/kg
Identification .....	Positive	Water .....	<= 0.03 %	GC-ECD (Lindane standard) .....	<= 3 ng/l
Colour .....	<= 10 hazen	Not volatile residue .....	<= 2 mg/kg	GC-NPD (Ethylparathion standard) .....	<= 3 ng/l

Code	Size	Packaging	Notes
448351	1l	Glass bottle	
448352000	2,5l	Glass bottle	

Product specifications are subject to changes.  
Please visit our website for updates.

## Ethyl acetate > RS-SPECTROSOL - For optical spectroscopy

RS

Description .....	Clear liquid	Boiling point .....	76.9 - 77.4 °C	Ethyl alcohol.....	<= 100 ppm	At 260 nm .....	>=75 %
Colour.....	<=10 APHA	Water (K.F.).....	<=100 ppm	Methyl alcohol.....	<=100 ppm	At 270 nm .....	>=95 %
Identification.....	Positive	Residue on evaporation .....	<=10 ppm	Assay (GLC).....	>=99.8 %	At 280 nm .....	>=98 %
Ready carbonizable substances .....	Conform	Acidity.....	<=0.0005 meq/g	<b>U.V. Transmittance</b>			
Assay (GLC).....	>=99.9 %	Alcalinity.....	<=0.0002 meq/g	At 255 nm.....	>=15 %		
Resistivity .....	>=20 Mohm.cm						
Density at 20° C.....	0.898 - 0.902						
Boiling point .....	76.6 - 77.6 °C						
Water (K.F.).....	<=500 ppm						
Residue on evaporation .....	<=10 ppm						
Acidity (acetic acid) .....	<=50 ppm						
Alcalinity (NH <sub>3</sub> ) .....	<=1 ppm						

Code	Size	Packaging	Notes
448272	2,5l	Glass bottle	

## Ethyl acetate > RS-Anhydrous-For analysis

RS

Refractive index at 20°C .....	1.37 - 1.374	Free acid (as CH <sub>3</sub> COOH).....	<= 30 mg/Kg	Density d20/4 .....	0.898 - 0.902
Water content (K.F.).....	<= 100 mg/Kg	Assay (GC).....	>= 99.8 %	Methyl acetate .....	<= 0.1 %
Non volatile residue .....	<= 10 mg/Kg	Methanol .....	<= 100 mg/Kg		
Colour .....	<= 10 Hazen	Ethanol .....	<= 400 mg/Kg		

Code	Size	Packaging	Notes
P0021010	200ml	Bottle with sept	
P0021016	1l	Glass bottle	
P0021021	2,5l	Glass bottle	
P00210T21	2,5l	Glass bottle	On molecular sieves 4A, Water content < 20ppm

## Ethyl acetate > RS-RSE For electronic use

RS

Description .....	Clear liquid	Phosphate .....	<=0.5 ppm	Co.....	<=0.01 ppm	Ni.....	<=0.01 ppm
Colour.....	<=10 APHA	Heavy metals (Pb) .....	<=0.1 ppm	Cr.....	<=0.01 ppm	Pb.....	<=0.02 ppm
Identification.....	Positive	Ag.....	<=0.02 ppm	Cu.....	<=0.01 ppm	Pt.....	<=0.05 ppm
Ready carbonizable substances .....	Conform	Al.....	<=0.05 ppm	Fe.....	<=0.02 ppm	Sb.....	<=0.01 ppm
Assay (GLC).....	>=99.9 %	As.....	<=0.01 ppm	Ga.....	<=0.02 ppm	Sn.....	<=0.02 ppm
Resistivity .....	>=20 Mohm.cm	Au.....	<=0.05 ppm	In.....	<=0.02 ppm	Sr.....	<=0.02 ppm
Density at 20° C.....	0.898 - 0.902	B.....	<=0.01 ppm	K.....	<=0.1 ppm	Ti.....	<=0.05 ppm
Boiling point .....	76.6 - 77.6 °C	Ba.....	<=0.1 ppm	Li.....	<=0.02 ppm	Tl.....	<=0.05 ppm
Water (K.F.).....	<=500 ppm	Be.....	<=0.02 ppm	Mg.....	<=0.1 ppm	V.....	<=0.05 ppm
Residue on evaporation .....	<=10 ppm	Bi.....	<=0.02 ppm	Mn.....	<=0.01 ppm	Zn.....	<=0.02 ppm
Acidity (acetic acid) .....	<=50 ppm	Ca.....	<=0.2 ppm	Mo.....	<=0.05 ppm	Zr.....	<=0.05 ppm
Alcalinity (NH <sub>3</sub> ) .....	<=1 ppm	Cd.....	<=0.01 ppm	Na.....	<=0.2 ppm		

Code	Size	Packaging	Notes
448308	2,5l	Glass bottle	
448306	5l	Metal tank	

## Ethyl acetate > RPE-For analysis-ACS-Reag.Ph.Eur.-Reag.USP

RPE

Description .....	Clear liquid	Water (K.F.) .....	<=300 ppm	Cr.....	<=0.02 ppm
Colour.....	<=10 APHA	Residue on evaporation .....	<=10 ppm	Cu.....	<=0.02 ppm
Identification (I.R.).....	Conform	Acidity.....	<=0.0009 meq/g	Fe.....	<=0.02 ppm
Alcohol miscibility .....	Complete	Ethyl alcohol.....	<=0.05 %	Mg.....	<=0.1 ppm
Chloroform miscibility .....	Complete	Methyl alcohol.....	<=0.01 %	Mn.....	<=0.02 ppm
Diethyl ether miscib. ....	Complete	Methyl acetate .....	<=0.1 %	Ni.....	<=0.02 ppm
Foreign esters .....	Conform	Al.....	<=0.5 ppm	Pb.....	<=0.02 ppm
Water solubility.....	Conform	B.....	<=0.02 ppm	Sn.....	<=0.1 ppm
Substances darkened by sulphuric acid .....	Conform	Ba.....	<=0.1 ppm	Zn.....	<=0.02 ppm
Density at 20° C.....	0.901 - 0.902	Ca.....	<=0.5 ppm	Assay (GLC).....	>=99.9 %
Refractive index at 20°C .....	1.3699 - 1.3739	Cd.....	<=0.05 ppm		
Boiling point .....	76.9 - 77.4 °C	Co.....	<=0.02 ppm		

Code	Size	Packaging	Notes
448251	1l	Glass bottle	
448256	2,5l	Glass bottle	
448254	5l	Plastic tank	
448252	10l	Metal tank	
448253	24kg	Metal tank	
448255	180kg	Metal drum	

## Ethyl acetate > ERBAPharm-According to pharmacopoeia: DAB-NF-Ph.Eur.

ERBAPharm

Description .....	Clear colourless liquid	Boiling point .....	76 - 78 °C	Organic volatile impurities .....	Conform USP-NF
Colour.....	<= 10 APHA	Acidity.....	Conform USP-NF	Related compounds .....	<= 0.2 %
Appearance.....	Conform Ph.Eur.	Acidity (acetic acid) .....	<= 0.005 %	Ethyl alcohol.....	<= 0.05 %
Identification.....	Positive	Residue on evaporation .....	<= 0.003 %	Assay (saponification) .....	99.0 - 100.5 %
Density at 20° C.....	0.898 - 0.902	Water (K.F.).....	<= 0.04 %	Assay (GLC).....	>= 99.8 %
Density at 25° C.....	0.894 - 0.898	Ready carbonizable substances.....	Conform USP-NF	Origin (BSE/TSE) .....	Synthesis
Refractive index at 20°C .....	1.370 - 1.373	Methyl compounds.....	Conform USP-NF	Residual solvents (CPMP/ICH/283/95).....	Conform

Code	Size	Packaging	Notes
341506	1l	Glass bottle	
341503	2,5l	Glass bottle	
529221	25l	Aluminium can	
529222	200l	Metal drum	
341502	24kg	Metal tank	

## ▶ Ethyl acetate &gt; RE-Pure

Description .....	Clear colourless liquid	Boiling point .....	76.0 - 77.5 °C	Water (K.F.) .....	<= 500 ppm
Colour .....	<= 10 APHA	Refractive index at 20°C .....	1.3699 - 1.3739	Assay (GLC) .....	>= 99.8 %
Identity (IR) .....	Positive	Acidity (acetic ac) .....	<= 30 ppm	Ethyl alcohol .....	<= 0.04 %
Density at 20°C .....	0.898 - 0.902	Residue on evaporation .....	<= 20 ppm		

Code	Size	Packaging	Notes
508221	1l	Glass bottle	
508222	2,5l	Glass bottle	
528295	5l	Plastic tank	
528299	10l	Metal tank	
528294	25l	Metal tank	
528296	25l	Plastic tank	
528297	200l	Metal drum	

## ▶ Ethyl acetoacetate

Synonym : Acetoacetic ester

CH<sub>3</sub>CH<sub>2</sub>OCOCH<sub>2</sub>COCH<sub>3</sub>  
 Molecular Weight 130,14  
 CAS : 141-97-9  
 EEC-N : 205-516-1



Warning

3.3/2; H319  
 P280-P264-P305+P351+P338-P337+P313

## ▶ Ethyl acetoacetate &gt; RE-Pure

Description .....	Clear colourless liquid	Refractive index at 20°C .....	1.415 - 1.424	Assay (GLC) .....	>= 98 %
Identification .....	Positive	Boiling point .....	179 - 181 °C		
Density at 20° C .....	1.021 - 1.029	Water (K.F.) .....	<= 0.1 %		

Code	Size	Packaging	Notes
341751	1l	Glass bottle	

## ▶ Ethyl formate

CH<sub>3</sub>CH<sub>2</sub>OOCH  
 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

2.6/2; H225-3.1.0/4; H302-3.1.1/4; H332-3.3/2; H319-3.8/3; H335  
 P210-P241-P304+P340-P305+P351+P338-P403+P235-P405-P501a

## ▶ Ethyl formate &gt; RE-Pure

Description .....	Clear liquid	Refractive index at 20°C .....	1.3547 - 1.3647	Boiling point .....	53.3 - 55.3 °C
Identification .....	Positive	Assay (GLO) .....	>= 98.0 %	Acidity .....	<= 0.002 meq/g
Density at 20° C .....	0.907 - 0.927	Colour .....	<= 20 APHA		

Code	Size	Packaging	Notes
342101	1l	Glass bottle	

## ▶ Ethyl methyl ketone

Synonyms : Butanone-2  
MEK

CH<sub>3</sub>CH<sub>2</sub>COCH<sub>3</sub>  
 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

2.6/2; H225-3.3/2; H319-3.8/3; H336-EUH066  
 P210-P241-P304+P340-P305+P351+P338-P403+P235-P405-P501a

## ▶ Ethyl methyl ketone &gt; RS-Anhydrous-For analysis

Refractive index at 20°C .....	1.377 - 1.381	Non volatile residue .....	<= 10 mg/Kg	Assay (GC) .....	>= 99.5 %
Water content (K.F.) .....	<= 200 mg/Kg	Colour .....	<= 10 Hazen	Free acid (as CH <sub>3</sub> COOH) .....	<= 30 mg/Kg

Code	Size	Packaging	Notes
P0201016	1l	Glass bottle	

## Ethyl methyl ketone > RPE-For analysis-Reag. Ph. Eur.

**RPE**

Description .....	Clear colourless liquid	Boiling point .....	79 - 80 °C	Ba.....	<= 0.1 ppm	Mn .....	<= 0.02 ppm
Identification (I.R.).....	Positive	Water (K.F.).....	<= 500 ppm	Ca.....	<= 0.5 ppm	Ni .....	<= 0.02 ppm
Colour.....	<= 10 APHA	Residue on evaporation .....	<= 10 ppm	Cd.....	<= 0.05 ppm	Pb .....	<= 0.1 ppm
Alcohol miscibility .....	Complete	Acidity (acetic acid) .....	<= 30 ppm	Co.....	<= 0.02 ppm	Sn .....	<= 0.1 ppm
Diethyl ether miscib. ....	Complete	Aldehydes(Formaldehyde).....	<= 20 ppm	Cr.....	<= 0.02 ppm	Zn .....	<= 0.1 ppm
Water solubility .....	Conform	Heavy metals (Pb) .....	<= 1 ppm	Cu.....	<= 0.02 ppm	Assay (GLC) .....	>= 99.5 %
Density at 20° C.....	0.802 - 0.808	Subst. reducing KMnO4 .....	<= 2 ppm(15m)	Fe.....	<= 0.1 ppm		
Refractive index at 20°C .....	1.3784 - 1.3834	Al.....	<= 0.5 ppm	Mg.....	<= 0.1 ppm		

Code	Size	Packaging	Notes
462701	1l	Glass bottle	
462703	2,5l	Glass bottle	
462704	10l	Plastic tank	
462702	22kg	Metal tank	

## Ethyl methyl ketone > RE-Pure

**RE**

Description .....	Clear colourless liquid	Refractive index at 20°C .....	1.3784 - 1.3844	Acidity (acetic acid) .....	<= 30 ppm
Identification.....	Positive	Boiling point .....	79 - 80 °C	Total alcohol.....	<= 0.5 %
Colour.....	<= 10 APHA	Water (K.F.).....	<= 0.1 %	Assay (GLC).....	>= 99.5 %
Density at 20° C.....	0.800 - 0.810	Residue on evaporation.....	<= 20 ppm		

Code	Size	Packaging	Notes
354254	1l	Glass bottle	
354253	2,5l	Glass bottle	
528975	5l	Plastic tank	
528976	25l	Metal tank	
528977	200l	Metal drum	
354251	22kg	Metal tank	
354255	160kg	Metal drum	

## Ethylene glycol

CH<sub>2</sub>OHCH<sub>2</sub>OH  
Molecular Weight 62,07  
CAS : 107-21-1  
EEC-N : 203-473-3


**Warning**

3.1.0/4; H302  
P264-P270-P330-P301+P312-P501a

## Ethylene glycol > RPE-For analysis

**RPE**

Description .....	Clear colourless liquid	Reac.with Ammonium hydr.....	Conform	Water (K.F.).....	<= 0.1 %	Peroxides (H <sub>2</sub> O <sub>2</sub> ).....	<= 5 ppm
Identification.....	Positive	Sub reducing AgNO <sub>3</sub> amm. ....	Conform	Acidity (acetic acid) .....	<= 3 ppm	Residue on ignition.....	<= 30 ppm
Water miscibility .....	Conform	Density at 20° C.....	1.108 - 1.118	Chloride .....	<= 2 ppm	Sulphate.....	<= 20 ppm
Miscb. with Acetone.....	Complete	Refractive index at 20°C .....	1.4274 - 1.4354	Carbonyl Compounds (CO) .....	<= 100 ppm	Fe.....	<= 1 ppm
Alcohol miscibility .....	Complete	Boiling point .....	197 - 199 °C	Heavy metals (Pb) .....	<= 2 ppm	Assay (GLC) .....	>= 99.5 %

Code	Size	Packaging	Notes
453905	1l	Glass bottle	
453904	2,5l	Glass bottle	
453902	30kg	Plastic tank	

## Ethylene glycol > RE-Pure

**RE**

Description .....	Clear colourless liquid	Refractive index at 20°C .....	1.4264 - 1.4364	Residue on ignition .....	<=100 ppm
Identification.....	Positive	Boiling point .....	197.0 - 199.0 °C	Assay (GLC).....	>=98 %
Density at 20° C.....	1.108 - 1.118	Water (K.F.).....	<=0.3 %		

Code	Size	Packaging	Notes
346501	1l	Glass bottle	
346503	2,5l	Glass bottle	
346502	5l	Plastic tank	
346504	25l	Plastic tank	
346509	60kg	Plastic tank	



## Ethylene glycol bis(2-aminoethyl ether)-n,n,n',n'-tetraacetic acid

$[-CH_2OCH_2CH_2N(CH_2CO_2H)_2]_2$   
 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 &gt; RPE-For analysis

RPE

Description.....White cryst. powder Chloride .....<=500 ppm Residue on ignition .....<=0.1 %  
 Identification.....Positive NH<sub>4</sub>OH-Insoluble subst .....<=50 ppm Sulphate .....<=100 ppm  
 Loss on drying .....<=1 % Heavy metals (Pb) .....<=10 ppm Assay (complexometric) .....>=98 %

Code	Size	Packaging	Notes
405521	10g	Glass bottle	
405522	100g	Plastic bottle	

Ethylene glycol butyl ether ▶ 2-Butoxy ethanol

Ethylene glycol dimethyl ether ▶ 1,2-Dimethoxyethane

Ethylene glycol monoethyl ether ▶ 2-Ethoxyethanol

Ethylene glycol monomethyl ether ▶ 2-Methoxy ethanol

## Ethylenediamine

Synonym : 1,2-Diaminoethane

NH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>NH<sub>2</sub>  
 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

3.4.F/1; H334-3.2/1B; H314-2.6/3; H226-3.1.O/4; H302-3.1.D/4; H312-3.4.S/1; H317  
 P210-P241-P304+P340-P305+P351+P338-P342+P311-P403+P235-P405-P501a

## Ethylenediamine &gt; RPE-For analysis

RPE

Description.....Clear colourless liquid Refractive index at 20°C .....1.4470 - 1.4570 Residue on ignition .....<= 100 ppm  
 Identification.....Positive Boiling point .....115.8 - 117.3 °C Fe.....<= 5 ppm  
 Alcohol miscibility .....Complete Melting point .....10 - 12 °C Assay (GLC).....>= 98 %  
 Density at 20° C.....0.890 - 0.906 Heavy metals (Pb).....<= 5 ppm

Code	Size	Packaging	Notes
449425	1l	Glass bottle	
449426	5l	Plastic tank	
449424	25kg	Polythene-metal drum	

## Ethylenediaminetetraacetic acid

$[CH_2N(CH_2COOH)_2]_2$   
 Molecular Weight 292,24  
 CAS : 60-00-4  
 EEC-N : 200-449-4



Warning

3.3/2; H319  
 P280-P264-P305+P351+P338-P337+P313

## Ethylenediaminetetraacetic acid &gt; RPE-For analysis

RPE

Description.....White powder Loss on drying .....<=0.1 % NH<sub>4</sub>OH-Insoluble subst .....<=50 ppm Cu.....<=2 ppm  
 Identification.....Positive Nitrotriacetic acid .....<=0.15 % Heavy metals (Pb) .....<=5 ppm Fe.....<=5 ppm  
 Chelation power.....Conform Chloride .....<=40 ppm Residue on ignition .....<=0.1 % Assay (complexometric) .....>=99 %

Code	Size	Packaging	Notes
405465	250g	Plastic bottle	
405463	1kg	Plastic bottle	
405462	5kg	Plastic bottle	
405464	25kg	Drum	

Suitable for complexometry

## Ethylenediaminetetraacetic acid > ERBAPharm-According to pharmacopoeia: NF

Description .....White powder Heavy metals (Pb) .....<=30 ppm Assay (complexometric).....98.0 - 100.5 %  
 Identification.....Positive Residue on ignition .....<=0.2 %  
 Nitritotriacetic acid.....<=0.3 % Fe.....<=50 ppm

Code	Size	Packaging	Notes
303251	5kg	Plastic bottle	
303252	25kg	Drum	
303254	50kg	Drum	

Suitable for complexometry

## Ethylenediaminetetraacetic acid dipotassium salt

[CH<sub>2</sub>N(CH<sub>2</sub>COOH)CH<sub>2</sub>COOK]<sub>2</sub>·2H<sub>2</sub>O  
 Molecular Weight 404,46  
 CAS : 2001-94-7  
 EEC-N : 217-895-0



### Warning

3.1.O/4; H302-3.1.D/4; H312-3.1.I/4; H332  
 P261-P271-P280-P304+P340-P312-P501a

## Ethylenediaminetetraacetic acid dipotassium salt > RPE-For analysis

RPE

Description .....White powder Chloride .....<=50 ppm Assay (complexometric).....99.0 - 101.5 %  
 Identification.....Positive Heavy metals (Pb) .....<=10 ppm  
 pH sol. 5% at 25° C .....4.0 - 5.0 Fe.....<=10 ppm

Code	Size	Packaging	Notes
405531	50g	Glass bottle	

Suitable for complexometry

## Ethylenediaminetetraacetic acid dipotassium salt > RE-Pure

RE

Description .....White granular powder Fe.....<= 0.001 % Sulphate.....<=0.01 % Loss on drying 150° C .....8.5-9.5 %  
 Identification.....Positive Heavy metals (Pb) .....<= 0.0005 % Ca.....<= 0.0005 % Assay (complexometric).....>=99.0 %  
 pH sol. 5% in H<sub>2</sub>O .....4.0-5.0 Chloride .....<=0.004 % Cu.....<=0.0001 %  
 Water-insoluble matter .....<=0.003 % Cyanide.....<= 0.001 % Nitritotriacetic acid .....<=0.05 %

Code	Size	Packaging	Notes
405582	25kg	Fibre drum	

Suitable for complexometry

## Ethylenediaminetetraacetic acid disodium salt

[CH<sub>2</sub>N(CH<sub>2</sub>COOH)CH<sub>2</sub>COONa]<sub>2</sub>·2H<sub>2</sub>O  
 Molecular Weight 372,24  
 CAS : 6381-92-6  
 EEC-N : 205-358-3



### Warning

3.1.O/4; H302-3.1.D/4; H312-3.1.I/4; H332  
 P261-P271-P280-P304+P340-P312-P501a

## Ethylenediaminetetraacetic acid disodium salt > RPE-For analysis-ACS

RPE

Description .....White powder Nitritotriacetic acid .....<=0.1 % Fe .....<=100 ppm  
 Identification.....Positive Water-insoluble matter .....<=50 ppm Assay (complexometric).....99.0 - 101.0 %  
 pH sol. 5% at 25° C .....4.0 - 6.0 Heavy metals (Pb) .....<=50 ppm

Code	Size	Packaging	Notes
405494	100g	Plastic bottle	
405491	250g	Plastic bottle	
405497	1kg	Plastic bottle	
405492	25kg	Plastic bucket	

Suitable for complexometry

## Ethylenediaminetetraacetic acid disodium salt > ERBAPharm-According to pharmacopoeia: FU-Ph.Eur.

Description	White powder	Heavy metals (Pb)	<=20 ppm	Residual solvents (CPMP/ICH/283/95)	Conform
Identification	Positive	Fe	<=80 ppm	Impurity A	<= 0.1 %
Appearance of solution	Conform Ph.Eur.	Assay (complexometric)	98.5 - 101.0 %		
pH sol. 5% at 25° C	4.0 - 5.5	Origin (BSE/TSE)	Synthesis		

Code	Size	Packaging	Notes
303201	1kg	Plastic bottle	
303203	5kg	Plastic bottle	
303202	25kg	Plastic bucket	

## Ethylenediaminetetraacetic acid disodium salt > ERBAPharm-According to pharmacopoeia: Ph.Eur.-USP

Description	White powder	Loss on drying	8.7 - 11.4 %	Assay (complexometric)	98.5 - 101.0 % t.q.
Identification	Positive	Ac. nitrilotriacetic (Impurity A)	<= 0.1 %	Origin (BSE/TSE)	Synthesis
Appearance of solution	Conform Ph.Eur.	Heavy metals (Pb)	<= 20 ppm	Residual solvents (CPMP/ICH/283/95)	Conform
Ca	Conform USP-NF	Fe	<= 80 ppm		
pH sol. 5% at 25° C	4.0 - 5.5	Assay (complexometric)	99.0 - 101.0 % s.s.		

Code	Size	Packaging	Notes
303227	1kg	Plastic bottle	
303225	25kg	Plastic bucket	

## Ethylenediaminetetraacetic acid disodium salt 0.1 mol/l (0.2N)

### 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	500ml	Bottle	Ref Ph.Eur 3005900
613005900	1l	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
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Code	Size	Packaging	Notes
405511000	1l	Plastic bottle	
405513000	5l	Kubidos	
405512000	10l	Kubidos	

37,22 g of ETDA-Naz. Volumetric solution ready-to-use : 0,2 N. 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
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Code	Size	Packaging	Notes
405421	Normex	Plastic ampoule	

Volumetric concentrated solution to prepare 1 L of solution 0,1 M.

## Ethylenediaminetetraacetic acid disodium salt 0.05 mol/l (0.1N)

### 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
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Code	Size	Packaging	Notes
405501000	1l	Plastic bottle	

18,61 g of ETDA-Naz. Volumetric solution ready-to-use : 0,1 N. Traceable to NIST

# ETH

## Ethylenediaminetetraacetic acid disodium salt 0.0178 mol/l (N/28)

Ethylenediaminetetraacetic acid disodium salt 0.0178 mol/l (N/28) >  
RS-For agroalimentary analysis

RS

Description .....Clear liquid Colour.....<= 10 APHA Assay.....0.0158 - 0.0198 M

Code	Size	Packaging	Notes
526011	10l	Kubidos	

# E

## Ethylenediaminetetraacetic acid disodium salt 0.01 mol/l (0.02N)

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	1l	Plastic bottle	

3,722 g of EDTA-Na<sub>2</sub>. Volumetric solution ready-to-use : 0,02 N. 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	Normex	Plastic ampoule	

3,3621 g EDTA. Volumetric concentrated solution to prepare 1 L of solution 0.01 M.

## Ethylenediaminetetraacetic acid potassium and magnesium salt

C<sub>10</sub>H<sub>12</sub>K<sub>2</sub>MgN<sub>2</sub>O<sub>8</sub>.2H<sub>2</sub>O  
Molecular Weight 462,8  
CAS : 15708-48-2  
EEC-N : 239-803-8



Warning

3.1.O/4; H302-3.1.D/4; H312-3.1.I/4; H332  
P261-P271-P280-P304+P340-P312-P501a

Ethylenediaminetetraacetic acid potassium and magnesium salt >  
RPE-For analysis

RPE

Description .....White powder Chloride .....<= 50 ppm Fe.....<= 10 ppm  
Identification.....Positive Sulphate .....<= 100 ppm Assay (complexometric).....>= 98 %  
pH (0.1M a 20°C).....8.5 - 9.5 Heavy metals (Pb).....<= 10 ppm

Code	Size	Packaging	Notes
405541	100g	Plastic bottle	

Suitable for complexometry

## Ethylenediaminetetraacetic acid tetrasodium salt tetrahydrate

CH<sub>2</sub>N(CH<sub>2</sub>COONa)<sub>2</sub>.4H<sub>2</sub>O  
Molecular Weight 452,24  
CAS : 13235-36-4  
EEC-N : 200-573-9



Warning

3.1.O/4; H302-3.1.D/4; H312-3.1.I/4; H332  
P261-P271-P280-P304+P340-P312-P501a

Ethylenediaminetetraacetic acid tetrasodium salt tetrahydrate > RPE-For analysis

RPE

Description .....White crystalline powder pH sol. 1% .....10.0 - 12.0 Assay (complexometric).....>= 98.5 % (s.s.)  
Identification.....Positive Water (K.F) .....15.0 - 17.0 %

Code	Size	Packaging	Notes
405482	250g	Plastic bottle	
405486	25kg	Bag	

Suitable for complexometry

## Ethylenediaminetetraacetic acid tripotassic salt

CAS : 65501-24-8  
EEC-N : 241-543-5



## Warning

3.2/2; H315-3.3/2; H319-3.8/3; H335  
P261-P305+P351+P338-P403+P233-P501a

## Ethylenediaminetetraacetic acid tripotassic salt &gt; RE-Pure

RE

Description .....White crystalline powder      pH sol. 5% in H<sub>2</sub>O .....7.0-9.0      Ca .....<= 5 ppm  
Identification.....Positive      Fe.....<= 5 ppm      Na.....<= 0.3 %  
Water-insoluble matter .....<= 0.01 %      Heavy metals (Pb).....<= 5 ppm      Assay (complexometric).....>= 99.0 %

Code	Size	Packaging	Notes
405424	25kg	Bag	

## Ethylene oxide solution

## Ethylene oxide solution &gt; RS-For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611036408	1ml	Glass ampoule	Ethylene oxide solution R5 Ref Ph.Eur 1036408
611036401	10ml	Glass ampoule	Ethylene oxide stock solution Ref Ph.Eur 1036401

## 2-Ethylhexanoic acid

CH<sub>3</sub>(CH<sub>2</sub>)<sub>3</sub>CH(C<sub>2</sub>H<sub>5</sub>)COOH  
Molecular Weight 144,22  
CAS : 149-57-5  
EEC-N : 205-743-6



## Warning

3.7/2; H361d  
P281-P201-P202-P308+P313-P405-P501a

## 2-Ethylhexanoic acid &gt; RPE-For analysis

RPE

Description .....Clear liquid      Density at 20° C .....0.904 - 0.908      Assay (GLC).....>= 98.5 %  
Colour .....<= 15 APHA      Refractive index at 20°C .....1.4230 - 1.4280  
Identification.....Positive      Boiling point .....227.0 - 229.0 °C

Code	Size	Packaging	Notes
405551	500ml	Glass bottle	

## Eugenol

4-(H<sub>2</sub>C=CHCH<sub>2</sub>)C<sub>6</sub>H<sub>3</sub>-2-(OCH<sub>3</sub>)OH  
Molecular Weight 164,21  
CAS : 97-53-0  
EEC-N : 202-589-1



## Warning

3.1.0/4; H302-3.4.S/1; H317  
P261-P280-P330-P363-P301+P312-P501a

## Eugenol &gt; RPE-For analysis

RPE

Description .....Yellow clear liquid      Density at 20° C .....1.064 - 1.070      Assay (GLC).....>= 98.5 %  
Identification.....Positive      Refractive index at 20°C .....1.5400 - 1.5420

Code	Size	Packaging	Notes
449773	100ml	Glass bottle	

## Eukitt

## Classification transport

ONU: 1307  
Transport Hazard class: 3  
Packing group III



## Warning

2.6/3; H226-3.2/2; H315  
P210-P241-P243-P332+P313-P403+P235-P501a

## Eukitt &gt; RS-For microscopy

RS

Description .....Viscous liquid      Identification.....Positive

Code	Size	Packaging	Notes
554194	100ml	Aluminium bottle	
554193	250ml	Aluminium bottle	
554192	500ml	Aluminium bottle	

*Balm rapid inclusion*

## European Pharmacopoeia Reagents - Chapter 2.2.1 : Clarity and degree of opalescence of liquids

Primary opalescent suspension .....428

## European Pharmacopoeia Reagents - Chapter 2.2.2 : Degree of coloration of liquids

Primary solutions for degree of coloration of liquids.....428      Standard solutions for degree of coloration of liquids .....514      Hydrochloric acid, dilute .....250

## European Pharmacopoeia Reagents - Chapter 2.2.25 : Absorption spectrophotometry, ultraviolet and visible

Potassium chloride 12g/l .....401      Toluene in solution in hexan .....557  
Potassium dichromate - Sulfuric acid solution .....404      Holmium perchlorate in solution .....236

## European Pharmacopoeia Reagents - Chapter 2.2.3 : Potentiometric determination of pH

Buffer pH 1.68 .....82      Buffer pH 6.88 .....85      Buffer pH 9.22 .....88  
Buffer pH 4 .....83      Buffer pH 7.4 .....86

## European Pharmacopoeia Reagents - Chapter 4.1.1 : Reagents

Acetic acid 12% .....7	Hydrochloric acid, dilute .....250	Potassium chromate 5% solution .....403
Acetic acid 30% .....6	Indigo carmine solution .....262	Potassium dichromate solution 0.5% .....405
Acetic anhydride .....8	Iodine bromide solution .....267	Potassium dichromate solution 106 g/l .....405
Aminohippuric acid reagent .....27	Iodoplatinate reagent .....267	Potassium ferrocyanide solution 53 g/l .....406
Ammonia solution 17% .....32	Iron (II) ammonium sulfate solution 100 g/l .....272	Potassium hydrogen phthalate 0.2 mol/l (0.2N) .....409
Ammonia solution diluted .....32	Lanthanum nitrate solution 50 g/l .....287	Potassium hydroxide 0.5 mol/l (0.5N) in ethanol .....413
Ammonium carbonate solution 158 g/l .....35	Lead (II) acetate basic solution .....289	Potassium hydroxide 2 mol/l (2N) in ethanol .....412
Ammonium molybdate solution .....43	Lead (II) acetate cotton .....290	Potassium hydroxide solution 3% in ethanol .....411
Anisaldehyde solution .....51	Lead (II) acetate paper .....290	Potassium iodide solution .....417
Barium chloride solution 61 g/l .....61	Lead (II) acetate solution 95 g/l .....290	Potassium iodobismuthate solution .....417
Barium hydroxide solution 47.3 g/l .....63	Lead (II) nitrate solution 33 g/l .....292	Potassium permanganate and phosphoric acid solution .....421
Biuret 97% .....72	Litmus paper .....297	Potassium permanganate solution 3% .....421
Bromine solution .....76	Malachite green solution 0.5% in anhydrous acetic acid .....307	Potassium phosphate monobasic 0.2 mol/l (0.2N) .....423
Bromine water .....77	Mercuric bromide paper .....314	Potassium pyroantimonate solution .....423
Bromocresol green - Methyl red solution .....78	Mercury (II) chloride solution 54 g/l .....317	Potassium tetraiodomercurate solution, alkaline .....426
Bromocresol green solution .....77	Mercury (II) sulfate solution .....319	Potassium thiocyanate solution .....427
Bromocresol purple solution .....78	Methanol, hydrochloric .....324	Silver nitrate solution .....460
Bromophenol blue solution .....80	Methyl orange mixed solution .....332	Sodium carbonate solution .....469
Bromothymol blue solution .....80	Methyl orange solution 0.1% .....332	Sodium hydroxide solution .....482
Calcium sulfate hemihydrate solution .....108	Methyl red mixed solution .....334	Sodium hydroxide solution 20% w/v .....480
Chloral hydrate .....117	Methyl red solution .....334	Sodium hydroxide solution, methanolic .....482
Congo red solution .....136	Molybdovanadic reagent .....340	Sodium hypochlorite solution in water .....488
Copper tetrammine, ammoniacal solution of .....142	Mordant black 11 tritrate .....340	Sodium sulfide solution .....503
Crystal violet solution 0.5% in acetic anhydride .....145	$\alpha$ -Naphtholbenzoin solution 0.2% in acetic anhydride .....344	Starch solution .....515
Cupri-citric solution .....146	Ninhydrin and stannous chloride reagent .....351	Sulfomolybdic reagent .....525
Cupri-tartaric solution .....146	Ninhydrin solution .....351	Sulfuric acid, dilute .....536
Dichloromethane acidified with 1% hydrochloric acid .....162	Nitric acid, dilute .....357	Thioacetamide solution 40 g/l .....546
1,4-Dioxane .....177	Pararosaniline solution, decolorised .....373	Thymol blue solution .....549
Diphenylamine solution 1% in sulfuric acid .....179	Perchloric acid solution .....378	Thymolphthalein solution 0.1% in ethanol .....549
Ethanol 96° .....188	Phenol red solution .....386	Titanium trichloride-sulfuric acid reagent .....554
Ethylene oxide solution .....201	Phenolphthalein solution 0.1% .....387	o-Tolidine solution .....556
Ferriin 0.025 mol/l solution .....205	Phenolphthalein solution 1% in ethanol .....387	Tris(hydroxymethyl)aminomethane solution .....568
Formaldehyde 35% w/w .....210	Phenylhydrazine hydrochloride solution .....389	Vanillin solution, phosphoric .....573
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Holmium perchlorate in solution .....236	Phosphotungstic acid solution .....393	Zinc acetate solution .....583
Hydrochloric acid 25% w/v .....242	Picric acid solution .....394	Zinc chloride solution, iodinated .....584
Hydrochloric acid, brominated .....250	Potassium chloride 0.1 mol/l (0.1N) .....402	Zinc chloride-formic acid solution .....584

## European Pharmacopoeia Reagents - Chapter 4.1.2 : Standard solutions for limit tests

Aluminum standard solution .....21	Fluoride standard solution .....209	Potassium standard solution .....396
Ammonium standard solution .....32	Formaldehyde 5ppm .....212	Selenium standard solution .....448
Antimony standard solution .....52	Germanium standard solution .....217	Silver standard solution .....454
Arsenic standard solution .....55	Glyoxal standard solution .....222	Sodium standard solution .....462
Barium standard solution .....59	Iodine 10ppm .....266	Sulfate standard solution .....524
Bismuth standard solution .....71	Iron standard solution .....268	Sulfite standard solution .....524
Cadmium standard solution .....96	Lead standard solution .....288	Thallium standard solution .....545
Calcium standard solution .....98	Magnesium standard solution .....299	Tin standard solution .....550
Chloride standard solution .....118	Manganese standard solution .....309	Titanium standard solution .....553
Chromium standard solution .....128	Mercury standard solution .....314	Vanadium standard solution .....572
Cobalt standard solution .....133	Nickel standard solution .....347	Zinc standard solution .....581
Copper standard solution .....136	Nitrate standard solution .....352	Zirconium standard solution .....588
Ferricyanide standard solution .....204	Palladium standard solution .....368	
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## European Pharmacopoeia Reagents - Chapter 4.1.3 : Buffers Solutions

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Ammonium chloride buffer solution pH 10.0 .....37	Buffer pH 7.4 .....86	Total-ionic-strength-adjustment buffer .....559
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Ammonium chloride buffer solution pH 9.5 .....37	Phosphate buffer pH 2.0 .....390	Tris(hydroxymethyl)aminomethane sodium chloride buffer solution pH 7.4 .....569
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Buffer pH 3.7 .....83	Phosphate buffer pH 6.8 .....390	

European Pharmacopoeia Reagents - Chapter 4.2.1 : Primary standards for volumetric solutions

Benzoic acid.....	66	Sodium carbonate monohydrate.....	469	Zinc standard solution .....	581
Potassium bromate .....	398	Sodium chloride .....	470		
Potassium hydrogen phthalate.....	408	Sulfanilic acid.....	524		

European Pharmacopoeia Reagents - Chapter 4.2.2 : Volumetric solutions

Ammonium cerium(IV) nitrate 0.01 mol/l.....	35	Hydrochloric acid 1 mol/l (1N).....	246	Potassium hydroxide 1 mol/l (1N).....	412
Ammonium cerium(IV) nitrate 0.1 mol/l.....	35	Hydrochloric acid 2 mol/l (2N).....	246	Potassium permanganate 0.02 mol/l (0.1N) .....	420
Ammonium cerium(IV) sulfate dihydrate 0.01 mol/l.....	36	Iodine 0.01 mol/l (0.02N).....	266	Silver nitrate 0.1 mol/l (0.1N).....	458
Ammonium cerium(IV) sulfate dihydrate 0.1 mol/l.....	36	Iodine 0.05 mol/l (0.1N) .....	265	Sodium arsenite 0.1 mol/l (0.2N).....	465
Ammonium thiocyanate 0.1 mol/l (0.1N) .....	48	Iodine 0.5 mol/l (1N) .....	265	Sodium hydroxide 0.1 mol/l (0.1N) in ethanol .....	487
Barium chloride 0.1 mol/l (0.2N) .....	61	Iron (II) sulfate 0.1 mol/l.....	270	Sodium hydroxide 0.1 mol/l (N/10) .....	487
Barium perchlorate 0.05 mol/l .....	64	Iron (III) ammonium sulfate 0.1 mol/l .....	272	Sodium hydroxide 1 mol/l (1N) .....	484
Bis(ethylenediamine)copper(II) hydroxide solution 1 mol/l.....	70	Lead (II) nitrate 0.05 mol/l .....	291	Sodium methoxide 0.1 mol/l.....	492
Bromide - bromate 0.0167 mol/l .....	76	Lead (II) nitrate 0.1 mol/l .....	292	Sodium nitrite 0.1 mol/l (0.1N) .....	493
Cerium (IV) sulfate 0.1 mol/l .....	114	Perchloric acid 0.1 mol/l (0.1N).....	377	Sodium thiosulfate 0.1 mol/l (0.1N).....	506
Ethylenediaminetetraacetic acid disodium salt 0.1 mol/l (0.2N).....	199	Potassium bromate 0.02 mol/l (0.12N).....	399	Sulfuric acid 0.05 mol/l (0.1N).....	534
Hyamine 1622 solution 0.004M .....	237	Potassium bromate 0.033 mol/l (0.198N).....	398	Sulfuric acid 0.5 mol/l (1N).....	532
Hydrochloric acid 6 mol/l (6N).....	244	Potassium dichromate 0.0167 mol/l (0.1 N) .....	405	Tetrabutylammonium hydroxide solution 0.1 mol/l (0.1N) in 2-propanol .....	541
Hydrochloric acid 0.1 mol/l (0.1N) .....	248	Potassium hydroxide 0.1 mol/l (0.1N) .....	414	Tetrabutylammonium hydroxide solution 0.1 mol/l (0.1N) .....	540
Hydrochloric acid 0.1 mol/l (0.1N) in ethanol .....	249	Potassium hydroxide 0.1 mol/l (0.1N) in ethanol.....	415	Zinc sulfate 0.1 mol/l (0.1N) .....	586
		Potassium hydroxide 0.5 mol/l (0.5N) in ethanol.....	413		

Europium standard solution

Europium standard solution > RS-Standard for ICP-MS

RS

Code	Size	Packaging	Notes
505601	50ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505602	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505605	100ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid

Europium standard solution > RS-Standard for ICP

RS

Code	Size	Packaging	Notes
503571	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503575	100ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
503573	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503577	500ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

Fabris-Villavecchia's reagent solution A

Classification transport

ONU: 1993  
 Transport Hazard class: 3  
 Packing group II



2.6/2; H225-3.6/2; H351  
 P210-P241-P308+P313-P403+P235-P405-P501a

Fabris-Villavecchia's reagent solution A > RS-For sesame oil

RS

Description.....clear light yellow liquid Identification.....Positive

Code	Size	Packaging	Notes
E449871	250ml	Glass bottle	

Mix furfurylic alcohol-ethanol.

Fabris-Villavecchia's reagent solution B

Classification transport

ONU: 1789  
 Transport Hazard class: 8  
 Packing group II



3.2/1B; H314-3.8/3; H335  
 P260-P261-P304+P340-P305+P351+P338-P405-P501a

Fabris-Villavecchia's reagent solution B > RS-For sesame oil

RS

Description.....Clear colourless liquid Identification.....Positive

Code	Size	Packaging	Notes
E449881	1l	Glass bottle	

Composition: Hydrochloric Acid

Product specifications are subject to changes.  
 Please visit our website for updates.

## Fast green FCF

C<sub>37</sub>H<sub>34</sub>N<sub>2</sub>Na<sub>2</sub>O<sub>10</sub>S<sub>3</sub>  
 Molecular Weight 808,86  
 CAS : 2353-45-9  
 EEC-N : 219-091-5



**Warning**

3.6/2; H351-3.1.O/4; H302-3.1.D/4; H312-3.1.I/4; H332  
 P261-P271-P280-P304+P340-P405-P501a

### Fast green FCF > RS-For microscopy-C.I. 42053

RS

Description.....Red brown powder Identification.....Positive

Code	Size	Packaging	Notes
491391	25g	Glass bottle	

*Dye for histology.*

## Fehling's A reagent

### Classification transport

ONU: 3082  
 Transport Hazard class: 9  
 Packing group III



4.1.C/2; H411  
 P273-P391-P501a

### Fehling's A reagent > RS-For glucose detection

RS

Description.....Clear blue liquid Density at 20° C.....1.037 - 1.043 [CuSO<sub>4</sub>.5H<sub>2</sub>O].....69.12 - 69.40 g/l

Code	Size	Packaging	Notes
449926	500ml	Plastic bottle	
449927	1l	Plastic bottle	

*Composition: Copper sulfate and benzoic acid*

## Fehling's B reagent

### Classification transport

ONU: 1824  
 Transport Hazard class: 8  
 Packing group II



**Danger**

3.2/1A; H314  
 P260-P280-P304+P340-P305+P351+P338-P405-P501a

### Fehling's B reagent > RS-For glucose detection

RS

Description.....Clear colourless liquid Density at 20° C.....1.259 - 1.265  
 Identification.....Positive Alkalinity (NaOH).....119 - 121 0/00

Code	Size	Packaging	Notes
E449936	500ml	Plastic bottle	
E449937	1l	Plastic bottle	

*Composition: Potassium sodium tartrate and sodium hydroxide.*

## Ferricyanide standard solution

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

RS

Code	Size	Packaging	Notes
615001300	100ml	Bottle	A 50 ppm solution : to dilute according to Ph.Eur 5001300



## Ferroun 0.025 mol/l solution

▶ **Ferroun 0.025 mol/l solution** > RS-For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611038100	100ml	Bottle	Ref Ph.Eur 1038100

▶ **Ferroun 0.025 mol/l solution** > RS-For COD determination

RS

Description.....Dark red liquid

Code	Size	Packaging	Notes
526751	100ml	Bottle	

## Ferrocyanide standard solution

▶ **Ferrocyanide standard solution** > RS-For analysis according to Ph. Eur. Chap. 4.1.2

RS

Code	Size	Packaging	Notes
615001209	100ml	Bottle	A 100 ppm solution : to dilute according to Ph.Eur 5001200

## Ferron

Synonym : 8-Hydroxy-7-iodo-5-quinolinesulfonic acid

IC<sub>6</sub>H(OH)SO<sub>3</sub>HN:CHCH:CH  
Molecular Weight 351,12  
CAS : 547-91-1  
EEC-N : 208-938-4

**Classification transport**  
ONU: 2585  
Transport Hazard class: 8  
Packing group III



**Danger**

3.2/1B; H314  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

▶ **Ferron** > RPE-For analysis

RPE

Description.....Yellow crystalline powder  
Identification.....Positive  
Loss on drying.....<=0.5 %  
Heavy metals (Pb).....<=20 ppm  
Residue on ignition.....<=0.1 %  
Iron sensitivity.....>=5 µg/ml  
Fe.....<=20 ppm

Code	Size	Packaging	Notes
406918	5g	Glass bottle	

For extraction and spectrophotometric determination of Mo (VI), Pd (II), U (VI), V (III).

## Filter aids

Dicalite 4158.....155	Aluminum oxide.....24	Florisil 60-100 mesh.....207
Charcoal activated.....116	Quartz granular.....438	Florisil 100-200 mesh.....207
Glass wool.....218	Sand purified.....446	

## Fixative AFA liquid

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



**Danger**

2.6/2; H225-3.1.1/3; H331-3.6/2; H351-3.2/2; H315-3.3/2; H319-3.4.S/1; H317-3.8/3; H335-H336  
P210-P241-P304+P340-P305+P351+P338-P403+P235-P405-P501a

▶ **Fixative AFA liquid** > RS-For histology

RS

Description.....Clear liquid

Code	Size	Packaging	Notes
508840	30ml	Jar	60 ml jars filled at 30 ml. Box of 500
526267	1l	Plastic bottle	
526263001	5l	Plastic tank	
526321	25l	Plastic tank	

Contains Ethanol, formaldehyde and acetic acid.

# FIX

## Fixative Bouin Duboscq Brazil liquid

### Classification transport

ONU: 1993  
 Transport Hazard class: 3  
 Packing group II



### Danger

2.6/2; H225-3.1.1/3; H331-3.6/2; H351-3.2/2; H315-3.3/2; H319-3.4.S/1; H317-3.8/3; H335-H336  
 P210-P241-P304+P340-P305+P351+P338-P403+P235-P405-P501a

### Fixative Bouin Duboscq Brazil liquid > RS-For histology

RS

Aspect .....Yellow liquid

Code	Size	Packaging	Notes
526271	1l	Plastic bottle	
526262	5l	Plastic tank	

## Fixative Bouin Hollande liquid



### Warning

3.4.S/1; H317  
 P261-P280-P363-P333+P313-P302+P352-P501a

### Fixative Bouin Hollande liquid > RS-For histology

RS

Appearance.....Clear liquid

Code	Size	Packaging	Notes
526268	1l	Plastic bottle	
526269	5l	Plastic tank	

## Fixative Bouin liquid



### Danger

3.1.1/3; H331-3.6/2; H351-3.2/2; H315-3.3/2; H319-3.4.S/1; H317-3.8/3; H335-H336  
 P261-P271-P304+P340-P305+P351+P338-P405-P501a

### Fixative Bouin liquid > RS-For histology

RS

Appearance.....Yellow liquid

Code	Size	Packaging	Notes
508835	20ml	Jar	40 ml jars filled at 20 ml. Box of 500
526270	1l	Plastic bottle	
526261	5l	Plastic tank	

## Fixative Davidson liquid

### Classification transport

ONU: 2924  
 Transport Hazard class: 3  
 Packing group II



### Danger

2.6/1; H224-3.1.1/3; H331-3.2/1B; H314-3.6/2; H351-3.1.D/4; H312-3.4.S/1; H317-3.8/3; H335-H336  
 P210-P241-P304+P340-P305+P351+P338-P403+P235-P405-P501a

### Fixative Davidson liquid > RS-For histology

RS

Description .....Clear colourless liquid

Code	Size	Packaging	Notes
508881	30ml	Jar	60 ml jars filled at 30 ml. Box of 500
526277	5l	Plastic tank	

## Fixative FIXALL-HIS liquid

**Classification transport**

ONU: 1993  
 Transport Hazard class: 3  
 Packing group II



**Danger**

2.6/2; H225  
 P210-P241-P243-P303+P361+P353-P403+P235-P501a

► **Fixative FIXALL-HIS liquid > RS-For histology**

RS

Code	Size	Packaging	Notes
526274	5l	Plastic tank	

Formaldehyde substitute. Ready-to-use solution

## Fixative liquid without acetic acid



**Danger**

3.1.1/3; H331-3.6/2; H351-3.1.D/4; H312-3.2/2; H315-3.3/2; H319-3.4.S/1; H317-3.8/3; H335-H336  
 P261-P271-P304+P340-P305+P351+P338-P405-P501a

► **Fixative liquid without acetic acid > RS-For histology**

RS

Description .....Clear colourless liquid

Code	Size	Packaging	Notes
526264	10l	Plastic tank	

## Florisil 100-200 mesh

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	100g	Plastic bottle	
452353	500g	Plastic bottle	

## Florisil 60-100 mesh

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	100g	Plastic bottle	
452333	500g	Plastic bottle	
452332	1kg	Plastic bottle	

## ► Florisil 60-100 mesh > RS-For residual pesticides analysis

**RS**

Description .....White powder 60 mesh .....ca 2.0 % 100 mesh .....ca 30.0 %  
 Identification .....Positive 70 mesh .....ca 20.0 % 140 mesh .....ca 6.9 %  
 Granulometry ..... 80 mesh .....ca 41.0 %

Code	Size	Packaging	Notes
452271	100g	Plastic bottle	
452273	500g	Plastic bottle	

## Fluorescein acid

Synonym : Acid Yellow 73

C<sub>20</sub>H<sub>12</sub>O<sub>5</sub>  
 Molecular Weight 332,32  
 CAS : 2321-07-5  
 EEC-N : 219-031-8

## ► Fluorescein acid > RPE-For analysis

**RPE**

Description .....Red brown powder Identification .....Positive

Code	Size	Packaging	Notes
452083	50g	Glass bottle	
452087	500g	Plastic bottle	

## Fluorescein sodium salt

C<sub>20</sub>H<sub>10</sub>Na<sub>2</sub>O<sub>5</sub>  
 Molecular Weight 376,28  
 CAS : 518-47-8  
 EEC-N : 208-253-0


**Warning**

3.1.D/4; H312-3.1.I/4; H332  
 P261-P271-P280-P304+P340-P312-P501a

## ► Fluorescein sodium salt > RPE-For analysis-C.I. 45350

**RPE**

Description .....Red brick powder Absorption ind.sensit. ....Conform  
 Identification .....Positive Loss on drying .....<=10 %

Code	Size	Packaging	Notes
452113	50g	Plastic bottle	
452117	1kg	Plastic bottle	

*Absorption indicator*

## ► Fluorescein sodium salt > RE-Pure-C.I. 45350

**RE**

Description .....Red brick powder Identification .....Positive

Code	Size	Packaging	Notes
345357	1kg	Plastic bottle	
345352	10kg	Fibre drum	

## Fluorexone

C<sub>30</sub>H<sub>24</sub>O<sub>13</sub>N<sub>2</sub>Na<sub>2</sub>  
 Molecular Weight 622,54  
 CAS : 1461-15-0  
 EEC-N : 215-957-1

## ► Fluorexone > RPE-For analysis

**RPE**

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

Code	Size	Packaging	Notes
452141	1g	Glass bottle	

*Complexometric indicator*

## Fluoride standard solution

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

RS

Code	Size	Packaging	Notes
615001401	100ml	Bottle	A 1 ppm solution : to dilute according to Ref Ph.Eur 5001401
615001409	100ml	Bottle	A 10 ppm solution : to dilute according to Ref Ph.Eur 5001400

### Fluoride standard solution > RS-Standard for ionic chromatography

RS

Code	Size	Packaging	Notes
503250	50ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503251	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503252	250ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503253	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Water

## Folin-Ciocalteu's reagent

#### Classification transport

ONU: 3264  
 Transport Hazard class: 8  
 Packing group II



**Danger**

3.2/1B; H314-3.1.O/4; H302-3.3/2; H319  
 P260-P280-P304+P340-P305+P351+P338-P405-P501a

### Folin-Ciocalteu's reagent > RS-For microscopy

RS

Description ..... Yellow clear liquid      Sensitivity to phenols (A at 650nm) ..... >= 0,26  
 Identification ..... Positive      Assay (equiv. of acid) ..... 1.9 - 2.1 N

Code	Size	Packaging	Notes
E463562	500ml	Glass bottle	

For the determination of phenols. Store at +4 ° C.

## Formaldehyde 40% w/v neutralized

HCHO  
 Molecular Weight 30,026  
 CAS : 50-00-0  
 EEC-N : 200-001-8

#### Classification transport

ONU: 2209  
 Transport Hazard class: 8  
 Packing group II



**Danger**

3.1.D/3; H311-3.1.I/3; H331-3.2/1B; H314-3.6/2; H351-3.8/2; H371-3.4.S/1; H317  
 P260-P304+P340-P305+P351+P338-P309+P311-P405-P501a

### Formaldehyde 40% w/v neutralized > RS-For histology

RS

Description ..... Clear liquid      Identification ..... Positive  
 Colour ..... <= 10 APHA      Assay (oxidimetric) ..... >= 37 % (m/v)

Code	Size	Packaging	Notes
415686	1l	Plastic bottle	
415682	5l	Plastic bottle	
415683	10kg	Plastic tank	
415684	30kg	Plastic tank	
415685	55kg	Plastic tank	

Stabilized with ~10% of methanol. Neutralized with dolomite

## Formaldehyde 40% w/v

HCHO  
 Molecular Weight 30,026  
 CAS : 50-00-0  
 EEC-N : 200-001-8

#### Classification transport

ONU: 2209  
 Transport Hazard class: 8  
 Packing group II



**Danger**

3.1.D/3; H311-3.1.I/3; H331-3.2/1B; H314-3.6/2; H351-3.8/2; H371-3.4.S/1; H317  
 P260-P304+P340-P305+P351+P338-P309+P311-P405-P501a

### Formaldehyde 40% 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 ..... <=10 APHA      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	1l	Plastic bottle	
415666	2,5l	Plastic bottle	
415667	5l	Plastic bottle	
415669	30kg	Plastic tank	
415662	55kg	Plastic tank	

Stabilized with ~10% of methanol.

# FOR

## Formaldehyde 35% w/w

### Classification transport

ONU: 1760  
Transport Hazard class: 8  
Packing group III



**Danger**

3.1.D/3; H311-3.1.I/3; H331-3.2/1B; H314-3.6/2; H351-3.4.S/1; H317-3.8/3; H335-H336  
P260-P261-P304+P340-P305+P351+P338-P405-P501a

### Formaldehyde 35% w/w > RS-For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611039101	100ml	Bottle	Ref Ph.Eur 1039101

### Formaldehyde 35% w/w > ERBAPharm-According to pharmacopoeia: BP-FU-Ph.Eur.-Ph.Franc.

ERBAPharm

Description .....Clear colourless liquid    Acidity.....Conform Ph.Eur.    Assay (iodometric).....34.5 - 38.0 % m/m  
Identification.....Positive    Sulphated ash.....<=0.1 %    Origin (BSE/TSE) .....Synthesis  
Appearance of solution.....Conform Ph.Eur.    Methyl alcohol.....9.0 - 15.0 % v/v

Code	Size	Packaging	Notes
310351	1l	Plastic bottle	
310356	2,5l	Plastic bottle	
310358	5l	Plastic bottle	
310349	10kg	Plastic tank	
310348	30kg	Plastic tank	
310355	55kg	Plastic tank	
310353	1000kg	Plastic container	

Stabilized with ~10% of methanol.

## Formaldehyde 30% w/w

HCHO  
Molecular Weight 30,026  
CAS : 50-00-0  
EEC-N : 200-001-8

### Classification transport

ONU: 2209  
Transport Hazard class: 8  
Packing group II



**Danger**

3.1.D/3; H311-3.1.I/3; H331-3.2/1B; H314-3.6/2; H351-3.8/2; H371-3.4.S/1; H317  
P260-P304+P340-P305+P351+P338-P309+P311-P405-P501a

### Formaldehyde 30% w/w > RE-Pure

RE

Code	Size	Packaging	Notes
526935	10l	Plastic tank	salted at pH 7

Stabilized with ~10% of methanol.

## Formaldehyde 30% w/v

HCHO  
Molecular Weight 30,026  
CAS : 50-00-0  
EEC-N : 200-001-8

### Classification transport

ONU: 2209  
Transport Hazard class: 8  
Packing group II



**Danger**

3.1.D/3; H311-3.1.I/3; H331-3.2/1B; H314-3.6/2; H351-3.8/2; H371-3.4.S/1; H317  
P260-P304+P340-P305+P351+P338-P309+P311-P405-P501a

### Formaldehyde 30% w/v > RE-Pure

RE

Description .....Clear colourless liquid    Density at 20°C.....1.075 - 1.100    Assay .....29.5 - 30.5 % (m/v)

Code	Size	Packaging	Notes
524930	5l	Plastic tank	

Stabilized with ~10% of methanol.

## Formaldehyde 10% v/v according to Lillie

HCHO  
CAS : 50-00-0  
EEC-N : 200-001-8



**Danger**

3.1.1/3; H331-3.6/2; H351-3.4.S/1; H317  
P261-P271-P280-P304+P340-P405-P501a

### 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	30ml	Jar	60 ml jars filled at 30 ml. Box of 500 . Colored pink.
508853	80ml	Jar	140 ml jars filled at 80 ml. Box of 150. Colored pink
508851	100ml	Jar	180 ml jars filled at 100 ml. Box of 100. Colored pink
526912	5l	Plastic tank	
526911	25l	Plastic tank	

10% solution (v/v) of 40% formalin buffered at pH 6.9 with phosphate ions. Stabilized with ~ 1% methanol.

## Formaldehyde 4% w/v with sodium chloride

HCHO  
CAS : 50-00-0  
EEC-N : 200-001-8



**Danger**

3.1.1/3; H331-3.6/2; H351-3.4.S/1; H317  
P261-P271-P280-P304+P340-P405-P501a

### 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	1l	Plastic bottle	

## Formaldehyde 4% w/v buffered at pH 6.9

HCHO  
CAS : 50-00-0  
EEC-N : 200-001-8



**Danger**

3.1.1/3; H331-3.6/2; H351-3.4.S/1; H317  
P261-P271-P280-P304+P340-P405-P501a

### Formaldehyde 4% w/v buffered at pH 6.9 > RS-For histology

RS

Description .....Clear colourless liquid pH at 20° C.....6.8 - 7.0 Assay (oxidimetric) .....>= 4.0 %  
Identification.....Positive Density at 20° C.....>= 1.00

Code	Size	Packaging	Notes
508859	20ml	Jar	40 ml jars filled at 20 ml. Box of 500
508861	30ml	Jar	60 ml jars filled at 30 ml. Box of 500
508862	120ml	Jar	180 ml jars filled at 120 ml. Box of 100
508863	300ml	Jar	500 ml jars filled at 300 ml. Box of 32
524920	500ml	Plastic bottle	
526937	800ml	Plastic bottle	1L jar filled at 800ml
415694	1l	Plastic bottle	
526931	2,5l	Plastic bucket	5L bucket filled at 2,5L
415691	5l	Plastic bottle	
415695	5l	Kubidos	
526936	5l	Plastic tank	
415693	10l	Kubidos	
526933	10l	Plastic tank	
415697	200l	Plastic drum	
415692	30kg	Plastic tank	

10% solution (v/v) of 40% formalin buffered at pH 6.9 with phosphate ions. Stabilized with ~ 1% methanol.

# FOR

## Formaldehyde 5ppm

### Formaldehyde 5ppm > RS-For analysis according to Ph. Eur. Chap. 4.1.2

RS

Code	Size	Packaging	Notes
615001500	100ml	Bottle	Concentrated solution : to dilute according to Ph.Eur 5001500

## Formaldehyde acetic

F



**Danger**

3.1.1/3; H331-3.6/2; H351-3.8/2; H371-3.2/2; H315-3.3/2; H319-3.4.S/1; H317-A26  
P260-P304+P340-P305+P351+P338-P309+P311-P405-P501a

### Formaldehyde acetic > RS-For histology

RS

Code	Size	Packaging	Notes
508871	30ml	Jar	60 ml jars filled at 30 ml. Box of 500
508872	40ml	Jar	60 ml jars filled at 40 ml. Box of 500
508874	65ml	Jar	180 ml jars filled at 65 ml. Box of 100
508873	120ml	Jar	180 ml jars filled at 120 ml. Box of 150
526231	1l	Plastic bottle	
526273	5l	Plastic tank	

## Formamide

Synonym : *Formic amide*

HCONH<sub>2</sub>  
Molecular Weight 45,02  
CAS : 75-12-7  
EEC-N : 200-842-0



**Danger**

3.7/1B; H360D-A26  
P281-P201-P202-P308+P313-P405-P501a

### Formamide > RS-Anhydrous-For analysis

RS

Refractive index at 20°C .....1.445 - 1.449    Colour .....<= 10 Hazen    Methanol.....<= 0.1 %  
Water content (K.F.).....<= 500 mg/Kg    Assay (GC).....>= 99 %

Code	Size	Packaging	Notes
P6151010	200ml	Bottle with sept	With septum

### Formamide > RPE-For analysis-ACS

RPE

Description .....Clear liquid    Identification.....Positive    Assay (GLC).....>= 99.5 %  
Colour.....<= 10 APHA    Freezing point.....2.0 - 3.0 °C

Code	Size	Packaging	Notes
452282	250ml	Glass bottle	
452286	1l	Glass bottle	
452281	230kg	Drum	



## Formic acid 99%

HCOOH  
Molecular Weight 46,026  
CAS : 64-18-6

## Classification transport

ONU: 1779  
Transport Hazard class: 8  
Packing group II



Danger

3.2/1A; H314-2.6/3; H226  
P210-P241-P304+P340-P305+P351+P338-P403+P235-P405-P501a

## Formic acid 99% &gt; RS-For LC/MS

RS

Description	Clear liquid	Sulphate	<=5 ppm	Li	<=0.02 ppm
Colour	<=10 APHA	Sulphite	<=10 ppm	Mg	<=0.5 ppm
Water miscibility	Conform	Ag	<=0.02 ppm	Mn	<=0.05 ppm
Density at 20° C	1.218 - 1.222	Al	<=0.05 ppm	Mo	<=0.02 ppm
Refractive index at 20°	1.3709 - 1.3719	Ba	<=0.05 ppm	Na	<=0.5 ppm
Boiling point	100.2 - 101.2 °C	Bi	<=0.1 ppm	Ni	<=0.05 ppm
Residue on evaporation	<=20 ppm	Ca	<=0.2 ppm	Pb	<=0.02 ppm
Acetic acid	<=500 ppm	Cd	<=0.05 ppm	Sr	<=0.02 ppm
Ammonium	<=10 ppm	Co	<=0.02 ppm	V	<=0.05 ppm
Total nitrogen	<=20 ppm	Cr	<=0.05 ppm	Zn	<=0.05 ppm
Chloride	<=5 ppm	Cu	<=0.02 ppm	Assay (acidimetric)	>=98 %
Heavy metals (Pb)	<=2 ppm	Fe	<=0.2 ppm	Test LC-MS TIC (50-2000m/z) ESI (+)	
Oxalate	<=50 ppm	K	<=0.1 ppm	Sensitive Impurities (reserpine)	<= 100 ppb

Code	Size	Packaging	Notes
405821	10x1ml	Glass ampoule	
405822	10x2,5ml	Glass ampoule	
405823	50ml	Plastic bottle	

Additive for eluent phase for LC-MS

## Formic acid 99% &gt; 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	<=10 APHA	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	1l	Glass bottle	
405793	5l	Plastic tank	
405794	30kg	Plastic tank	

## Formic acid 99% &gt; 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	1l	Glass bottle	
303913	30kg	Plastic tank	

## Formic acid 85%

HCOOH  
Molecular Weight 46,026  
CAS : 64-18-6

## Classification transport

ONU: 1779  
Transport Hazard class: 8  
Packing group II



Danger

3.2/1A; H314  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

## Formic acid 85% &gt; RPE-For analysis

RPE

Description	Clear liquid	Total nitrogen	<=20 ppm	Bi	<=0.1 ppm	Mg	<=0.5 ppm
Colour	<=10 APHA	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	1l	Glass bottle	
405833	2,5l	Glass bottle	
405835	30kg	Plastic tank	

## ▶ Formic acid 85% &gt; 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	1l	Glass bottle	
303901	30kg	Plastic tank	

## ▶ Formic acid-d

HCOOD  
CAS : 925-94-0

Classification transport  
ONU: 1760



Danger

3.2/1A; H314  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

## ▶ Formic acid-d &gt; RS-For NMR-min 97%

RS

Code	Size	Packaging	Notes
P5733	5ml	Glass bottle	

## ▶ D(-)Fructose

Synonym : D-Levulose

CH<sub>2</sub>OHC(OH)(CHOH)<sub>3</sub>CH<sub>2</sub>  
Molecular Weight 180,16  
CAS : 57-48-7  
EEC-N : 200-333-3

## ▶ D(-)Fructose &gt; RPE-For analysis

RPE

Description	White powder	Loss on drying	<=0.5 %	Residue on ignition	<=300 ppm
Identification	Positive	Chloride	<=10 ppm	Sulphate	<=50 ppm
Melting point	101.5 - 104.5 °C	Water-insoluble matter	<=100 ppm	As	<=1 ppm
Specific optical rotation	-93.0 - -91.0 °	Heavy metals (Pb)	<=10 ppm	Fe	<=10 ppm

Code	Size	Packaging	Notes
452666	500g	Plastic bottle	

## ▶ Fuchsin acid

Synonyms : Acid Violet 19  
Rubine S

C<sub>20</sub>H<sub>17</sub>N<sub>3</sub>Na<sub>2</sub>O<sub>9</sub>S<sub>3</sub>  
Molecular Weight 585,6  
CAS : 3244-88-0  
EEC-N : 221-816-5



Warning

3.1.O/4; H302-3.1.D/4; H312-3.1.I/4; H332  
P261-P271-P280-P304+P340-P312-P501a

## ▶ Fuchsin acid &gt; RPE-For analysis-C.I. 42685

RPE

Description	Dark green crystals	Identification	Positive	Decolorization with SO <sub>2</sub>	Conform
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Code	Size	Packaging	Notes
452812	25g	Glass bottle	
452814	100g	Plastic bottle	

Dye for microscopy (botanical-histology). Indicator acid - base (pH 12.0 ÷ 14.0).

## ▶ Fuchsin basic

Synonyms : Rosaniline  
Basic Violet 14

C<sub>20</sub>H<sub>20</sub>ClN<sub>3</sub>  
Molecular Weight 337,85  
CAS : 632-99-5  
EEC-N : 211-189-6



Warning

3.6/2; H351-3.2/2; H315-3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

## ▶ Fuchsin basic &gt; RPE-For analysis-C.I. 42510

RPE

Description	Green crystals	Identification	Positive	Decolorization with SO <sub>2</sub>	Conform
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Code	Size	Packaging	Notes
452842	25g	Glass bottle	
452844	100g	Plastic bottle	

Dye for microscopy (bacteriology-Botanical-histology). Indicator acid - base (pH 1.0 ÷ 3.1).


**Fuchsin solution decolorised**

**Fuchsin solution decolorised > RS-For analysis according to Ph. Eur. Chap. 4.1.1** **RS**

Code	Size	Packaging	Notes
611039401	100ml	Bottle	Ref Ph.Eur 1039401
611039402	100ml	Bottle	Fuchsin solution, decolorised R1 Ref Ph.Eur 1039402

**Fumaric acid**

HOOCCH:CHCOOH  
 Molecular Weight 116,07  
 CAS : 110-17-8  
 EEC-N : 203-743-0

 **Warning**  
 3.3/2; H319  
 P280-P264-P305+P351+P338-P337+P313

**Fumaric acid > RPE-For analysis** **RPE**

Description .....White crystal powder  
 Identification.....Positive  
 Melting point .....288.5 - 293.5 °C  
 Chloride .....<=50 ppm

Heavy metals (Pb).....<= 5 ppm  
 Residue on ignition .....<= 50 ppm  
 Total sulphur (S) .....<= 5 ppm  
 As .....<= 2 ppm

Fe.....<= 5 ppm  
 Assay (acidimetric).....>= 99.5 %

Code	Size	Packaging	Notes
406284	100g	Glass bottle	
406287	1kg	Plastic bottle	

**Fumaric acid > ERBAPharm-According to pharmacopoeia: NF** **ERBAPharm**

Description .....White crystalline powder  
 Identification.....Positive  
 Maleic acid (HPLC) .....<=0.1 %

Water (K.F.).....<=0,5 %  
 Sulphated ash.....<=0,1 %  
 Heavy metals (Pb).....<=10 ppm

Assay (acidimetric) .....99.5 - 100.5 % s.s.

Code	Size	Packaging	Notes
304151	25kg	Fibre drum	

**α-Furildioxime**

OCH:CHCH:CC:(NOH)C:(NOH)C:CHCH  
 Molecular Weight 220,19  
 CAS : 522-27-0  
 EEC-N : 208-326-7

**α-Furildioxime > RPE-For analysis** **RPE**

Description .....Ivory powder  
 Identification.....Positive

Residue on ignition .....<=100 ppm  
 Nikel sensitivity .....<=0.2 µg/ml

Code	Size	Packaging	Notes
452981	1g	Glass bottle	

**Gadolinium standard solution**

**Gadolinium standard solution > RS-Standard for ICP-MS** **RS**

Code	Size	Packaging	Notes
505621	50ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505622	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505625	100ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid

Product specifications are subject to changes.  
Please visit our website for updates.

# GAD

## Gadolinium standard solution > RS-Standard for ICP

RS

Code	Size	Packaging	Notes
503601	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503605	100ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
503603	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503607	500ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

## D(+)-Galactose

CH<sub>2</sub>OHCH(CHOH)<sub>3</sub>CHOH  
Molecular Weight 180,16  
CAS : 59-23-4  
EEC-N : 200-416-4

## D(+)-Galactose > RPE-For analysis

RPE

Description ..... White powder  
Identification ..... Positive  
Specific optical rotation at 20°C (C=10;H<sub>2</sub>O;NH<sub>3</sub>)+78 - +81.5 ° (s.s.)  
Water (K.F.) ..... <= 0.3 %  
Sulphated ash ..... <= 0.1 %

Code	Size	Packaging	Notes
453125	250g	Plastic bottle	
453126	1kg	Plastic bottle	

## Gallic acid monohydrate

Synonym : 3,4,5-Trihydroxybenzoic acid

3,4,5-(OH)<sub>3</sub>C<sub>6</sub>H<sub>2</sub>COOH.H<sub>2</sub>O  
Molecular Weight 188,14  
CAS : 5995-86-8  
EEC-N : 205-749-9



### Warning

3.2/2; H315-3.3/2; H319  
P280-P264-P305+P351+P338-P332+P313-P337+P313-P362

## 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	250g	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
304202	5kg	Plastic bottle	

## Gallium standard solution

## Gallium standard solution > RS-Standard for ICP-MS

RS

Code	Size	Packaging	Notes
505616	50ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505617	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505618	100ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid

## Gelatine

CAS : 9000-70-8  
EEC-N : 232-554-6

## Gelatine &gt; RS-For microbiology

RS

Description.....Yellowish crystalline powder    Loss on drying .....<= 13 %  
Identification.....Positive    Sulphated ash.....<= 2 %

Code	Size	Packaging	Notes
453226	500g	Plastic bottle	

## Gentian violet

Synonyms : *Hexamethylpararosaniline chloride*  
*Methyl Violet 10B*

C<sub>25</sub>H<sub>30</sub>ClN<sub>3</sub>  
Molecular Weight 408  
CAS : 548-62-9  
EEC-N : 208-953-6

## Classification transport

ONU: 2811  
Transport Hazard class: 9  
Packing group III

 **Danger**

3.3/1; H318-3.6/2; H351-4.1.A/1; H400-4.1.C/1; H410-3.1.O/4; H302  
P280-P305+P351+P338-P308+P313-P330-P405-P501a

## Gentian violet &gt; RE-Pure

RE

Description.....Dark green powder    Identification.....Positive    Loss on drying 100° C.....<=10 %

Code	Size	Packaging	Notes
388701	50g	Glass bottle	

*Dye for microscopy (bacteriology).*

## Gentian violet carbolated solution

Synonym : *Hexamethylpararosaniline chloride*

C<sub>25</sub>H<sub>30</sub>ClN<sub>3</sub>  
Molecular Weight 408  
CAS : 548-62-9  
EEC-N : 208-953-6

## Classification transport

ONU: 2811  
Transport Hazard class: 9  
Packing group III

 **Danger**

3.3/1; H318-3.6/2; H351-4.1.A/1; H400-4.1.C/1; H410-3.1.O/4; H302  
P280-P305+P351+P338-P308+P313-P330-P405-P501a

## Gentian violet carbolated solution &gt; RS-For microscopy

RS

Description.....Violet clear liquid    Identification.....Positive

Code	Size	Packaging	Notes
E491651	250ml	Glass bottle	Dye for microscopy (bacteriology) according to GRAM
E491661	250ml	Glass bottle	Dye for microscopy (bacteriology) according to NICOLLE

## Germanium standard solution

## Germanium standard solution &gt; RS-For analysis according to Ph. Eur. Chap. 4.1.2

RS

Code	Size	Packaging	Notes
615004400	1l	Bottle	A 100 ppm solution Ref Ph.Eur 5004400

## Germanium standard solution &gt; RS-Standard for ICP-MS

RS

Code	Size	Packaging	Notes
505631	50ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrofluoric acid and nitric acid
505632	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrofluoric acid and nitric acid
505635	100ml	Plastic bottle	conc. 100 ppm Matrix : Hydrofluoric acid and nitric acid

## ▶ Germanium standard solution &gt; RS-Standard for ICP

RS

Code	Size	Packaging	Notes
504251	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrofluoric acid and nitric acid
504255	100ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrofluoric acid and nitric acid
504253	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrofluoric acid and nitric acid
504257	500ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrofluoric acid and nitric acid

## ▶ Giemsa's reagent

## Classification transport

ONU: 1992

Transport Hazard class: 3

Packing group II



Danger

2.6/2; H225-3.1.D/3; H311-3.8/1; H370

P210-P241-P307+P311-P403+P235-P405-P501a

## ▶ Giemsa's reagent &gt; RS-For microscopy

RS

Description.....Blue clear liquid Identification.....Positive Functionality.....Conform

Code	Size	Packaging	Notes
E453612	6x100ml	Glass bottle	
E453613	6x500ml	Glass bottle	
E453615	4x2,5l	Glass bottle	

Dye according hematology Romanowski.

## ▶ Girard's P reagent

[NH<sub>2</sub>NHCOCH<sub>2</sub>NC<sub>5</sub>H<sub>5</sub>]Cl

Molecular Weight 187,63

CAS : 1126-58-5

EEC-N : 214-421-4

## ▶ Girard's P reagent &gt; RS-For microscopy

RS

Description.....Yellowish powder Residue on ignition.....<=100 ppm  
Identification.....Positive Assay (argentimetric).....98 - 100 %

Code	Size	Packaging	Notes
453682	25g	Glass bottle	

## ▶ Girard's T reagent

[NH<sub>2</sub>NHCOCH<sub>2</sub>N(CH<sub>3</sub>)<sub>3</sub>]Cl

Molecular Weight 167,64

CAS : 123-46-6

EEC-N : 204-629-3

## ▶ Girard's T reagent &gt; RS-For microscopy

RS

Description.....White crystalline powder Residue on ignition.....<=100 ppm  
Identification.....Positive Assay (non-aqueous medium).....>=98.5 %

Code	Size	Packaging	Notes
453702	25g	Glass bottle	

## ▶ Glass wool

SiO<sub>2</sub>

Molecular Weight 60,09

CAS : 7631-86-9

EEC-N : 231-545-4



Warning

3.3/2; H319-3.8/3; H335

P261-P271-P304+P340-P305+P351+P338-P405-P501a

## ▶ Glass wool &gt; RPE-For analysis

RPE

Description.....White fibres Alkalinity (NaOH).....<=0.1 %  
Identification.....Positive Heavy metals (Pb).....<=50 ppm

Code	Size	Packaging	Notes
457521	250g	Bottle	

## D(+)-Glucose anhydrous

Synonym : Dextrose

CH<sub>2</sub>OHCH(CHOH)<sub>3</sub>CHOH  
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  
Acidity ..... <=0.002 meq/g  
Identification ..... Positive  
Starch ..... Conform  
Specific optical rotation ..... +52.5 - +53.0 °  
Chloride ..... <=100 ppm  
Loss on drying ..... <=0.2 %  
Water-insoluble matter ..... <=50 ppm  
Heavy metals (Pb) ..... <=5 ppm  
Residue on ignition ..... <=200 ppm  
Sulphat + sulphit (SO<sub>4</sub>) ..... <=50 ppm  
Fe ..... <=5 ppm

Code	Size	Packaging	Notes
454336	500g	Plastic bottle	
454337	1kg	Plastic bottle	
454338	2,5kg	Plastic bottle	
454333	25kg	Plastic bucket	

### D(+)-Glucose anhydrous > ERBAPharm-According to pharmacopoeia: Ph.Eur.-USP-FU-Ph.Franc.-BP-DAB

ERBAPharm

Description ..... White crystalline powder  
Solub. starch, sulphite ..... Conform USP-NF  
Identification ..... Positive  
Dextrine ..... Conform USP-NF  
Appearance of solution ..... Conform Ph.Eur.  
Specific optical rotation at 20°C (anhyd) ..... 52.5 - 53.3 °  
Acidity or alkalinity ..... Conform Ph.Eur.  
Sulphated ash ..... <= 0.1 %  
Barium ..... Conform Ph.Eur.  
Chloride ..... <= 125 ppm  
For.sug. sol.starch dex ..... Conform Ph.Eur.  
Sulphate ..... <= 200 ppm  
Sulphite ..... <= 15 ppm  
Heavy metals (Pb) ..... <= 5 ppm  
As ..... <= 1 ppm  
Ca ..... <= 200 ppm  
Acidity or alkalinity ..... Conform Ph.Eur.  
Water (K.F.) ..... 7.5 - 9.5 %  
Sulphated ash ..... <= 0.1 %  
Water (K.F.) ..... <= 0.5 %  
Pb in sugars ..... <= 0.5 ppm  
Origin (BSE/TSE) ..... Vegetable

Code	Size	Packaging	Notes
346987	1kg	Plastic bottle	
346989	5kg	Plastic bottle	
346983	25kg	Plastic bucket	

## D(+)-Glucose monohydrate

CH<sub>2</sub>OHCH(CHOH)<sub>3</sub>CHOH.H<sub>2</sub>O  
Molecular Weight 198,17  
CAS : 5996-10-1  
EEC-N : 200-075-1

### D(+)-Glucose monohydrate > ERBAPharm-According to pharmacopoeia: Ph.Eur.-USP-Ph.Franc.-BP-DAB

ERBAPharm

Description ..... White crystalline powder  
Specific optical rotation at 20°C (anhyd) ..... 52.5 - 53.3 °  
Identification ..... Positive  
Pb in sugars ..... <= 0.5 ppm  
Appearance of solution ..... Conform Ph.Eur.  
Water (K.F.) ..... 7.5 - 9.5 %  
Barium ..... Conform Ph.Eur.  
Chloride ..... <= 125 ppm  
For.sug. sol.starch dex ..... Conform Ph.Eur.  
Sulphate ..... <= 200 ppm  
Solub. starch, sulphite ..... Conform USP-NF  
Sulphite ..... <= 15 ppm  
Dextrine ..... Conform USP-NF  
Heavy metals (Pb) ..... <= 5 ppm  
As ..... <= 1 ppm  
Ca ..... <= 200 ppm  
Acidity or alkalinity ..... Conform Ph.Eur.  
Sulphated ash ..... <= 0.1 %  
Origin (BSE/TSE) ..... Vegetable

Code	Size	Packaging	Notes
346971	1kg	Plastic bottle	
346972	5kg	Plastic bottle	
346973	25kg	Drum	

## L(+)-Glutamic acid

HOCCH(NH<sub>2</sub>)CH<sub>2</sub>CH<sub>2</sub>COOH  
Molecular Weight 147,13  
CAS : 56-86-0  
EEC-N : 200-293-7

### L(+)-Glutamic acid > RPE-For analysis

RPE

Description ..... White powder  
Chloride ..... <= 200 ppm  
Identification ..... Positive  
Sulphate ..... <= 300 ppm  
Specific optical rotation at 20°C ..... +30.5 - 32.5 ° (s.s.)  
Heavy metals (Pb) ..... <= 10 ppm  
Loss on drying ..... <= 0.5 %  
Residue on ignition ..... <= 0.1 %  
Ammonium ..... <= 200 ppm  
Transmittance at 430nm (C=10; HCl 2N) ..... >= 98 %  
Other amino-acids ..... Not detectables  
As<sub>2</sub>O<sub>3</sub> ..... <= 1 ppm  
Fe ..... <= 30 ppm  
Assay (non-aqueous medium) ..... 98.5 - 100.5 % (s.s.)

Code	Size	Packaging	Notes
406485	250g	Plastic bottle	

## L(+)-Glutamic acid > RE-Pure

**RE**

Description .....	White powder	Transmittance at 430nm (C=10; HCl 2N) .....	>= 98 %	Sulphated ash.....	<= 0.1 %
Identification.....	Positive	Chloride .....	<= 210 ppm	Fe.....	<= 30 ppm
Loss on drying .....	<= 0.2 %	Sulphate .....	<= 280 ppm	Assay (acidimetric) .....	98.5 - 100.5 %s.s.
Other amino-acids.....	Not detectables	Ammonium .....	<= 200 ppm		
Specific optical rotation at 20°C (C=10; .....	+31.5 - +32.5 °	Heavy metals (Pb) .....	<= 10 ppm		

Code	Size	Packaging	Notes
304505	250g	Plastic bottle	
304507	1kg	Plastic bottle	

## Glutardialdehyde solution 50%

$C_5H_8O_2$   
Molecular Weight 100,12  
CAS : 111-30-8

**Classification transport**  
ONU: 1760  
Transport Hazard class: 8  
Packing group II


**Danger**

3.1.O/3; H301-3.4.R/1; H334-3.2/1B; H314-4.1.A/1; H400-3.4.S/1; H317-3.8/3; H335-H336  
P260-P304+P340-P305+P351+P338-P342+P311-P405-P501a

## Glutardialdehyde solution 50% > RPE-For analysis

**RPE**

Description .....	Clear colourless liquid	Density at 20° C.....	1.127 - 1.133
Identification.....	Positive	Assay.....	50.0 - 52.0 %

Code	Size	Packaging	Notes
415721	10l	Kubidos	

## Glycerol

Synonyms : 1,2,3-Propanetriol  
Glycerin

$CH_2OHCHOHCH_2OH$   
Molecular Weight 92  
CAS : 56-81-5  
EEC-N : 200-289-5

## Glycerol > RS-RSE For electronic use

**RS**

Description .....	Clear liquid	pH 10% at 25° C.....	5 - 7	Sulphate.....	<= 5 ppm
Colour.....	<= 10 APHA	Organic chlorine (Cl).....	<= 10 ppm	Sugars (glucose).....	<= 500 ppm
Identification.....	Positive	Ammonium .....	<= 5 ppm	As .....	<= 0.4 ppm
Water miscibility.....	Complete	Chloride .....	<= 2 ppm	Ca .....	<= 10 ppm
Alcohol miscibility .....	Complete	Fatty acid esters(glyceryl trybutyrate).....	<= 250 ppm	Cr .....	<= 0.1 ppm
Acroleine, sugars and ammonia compounds .....	Conform ACS	Heavy metals (Pb) .....	<= 0.5 ppm	Cu .....	<= 0.1 ppm
Sub reducing AgNO3 amm.....	Conform ACS	Oxalate .....	<= 8 ppm	Fe.....	<= 0.5 ppm
Ready carbonizable substances.....	Conform ACS	Peroxides (H2O2).....	<= 5 ppm	Ni .....	<= 0.1 ppm
Density at 25°/25° C.....	>= 1.2570	Residue on ignition .....	<= 50 ppm	Assay (densimetric) .....	>= 99.5 %

Code	Size	Packaging	Notes
453772	2,5l	Glass bottle	
453773	260kg	Metal drum	

## Glycerol > RPE-For analysis-ACS-Reag.Ph.Eur.-Reag.USP

**RPE**

Description .....	Clear liquid	Water (K.F.).....	<= 0.5 %	Esters of fatty acids (butyric acid).....	<= 500 ppm
Colour.....	<= 10 APHA	Organic chlorine (Cl).....	<= 30 ppm	Ca .....	<= 10 ppm
Identification.....	Positive	Heavy metals (Pb) .....	<= 2 ppm	Fe.....	<= 0.5 ppm
Neutrality .....	Conform ACS	Residue on ignition .....	<= 50 ppm	Assay (GLC).....	>= 99.5 %
Ready carbonizable substances.....	Conform ACS	Sulphate .....	<= 10 ppm		
pH 10% at 25° C.....	5 - 7	Acrolein and glucose.....	Conform ACS		

Code	Size	Packaging	Notes
453751	500ml	Plastic bottle	
453752	1l	Glass bottle	
453755	2,5l	Glass bottle	
453759	35kg	Metal tank	
453758	260kg	Metal drum	



Glycerol >

ERBAPharm-Synthetic origin-According to pharmacopoeia: Ph.Eur.-USP-FU-Ph.Franc.-BP-DAB

Description .....	Colourless or almost, clear liquid	Sugar .....	Conform Ph.Eur.	Sulphated ash .....	<= 100 ppm
Identification .....	Positive	Esters .....	Conform Ph.Eur.	Chloride .....	<= 10 ppm
Appearance of solution .....	Conform Ph.Eur.	Fatty acids and esters .....	Conform USP-NF	Halogenated compounds .....	<= 30 ppm
Acidity or alkalinity .....	Conform Ph.Eur.	Colour .....	Conform USP-NF	Heavy metals (Pb) .....	<= 5 ppm
Aldehydes .....	<= 10 ppm	Density at 20° C .....	>= 1.249	Sulphate .....	<= 20 ppm
Diethyl.glyc.rel.subst. ....	Conform Ph.Eur.	Refractive index at 20°C .....	1.470 - 1.475	Assay (acidimetric) .....	99.0 - 101.0 % s.s.
Related substances(GLO) .....	Conform USP	Water (K.F.) .....	<= 2.0 %		

Code	Size	Packaging	Notes
346174	35kg	Plastic tank	
346171	260kg	Metal drum	

Glycerol >

ERBAPharm-Vegetal origin- According to pharmacopoeia: Ph.Eur.-USP-FU-Ph.Franc.-BP-DAB

Description .....	Clear colourless liquid	Esters .....	Conform Ph.Eur.	Sulphated ash .....	<= 100 ppm
Identification .....	Positive	Fatty acids and esters .....	Conform USP-NF	Chloride .....	<= 10 ppm
Appearance of solution .....	Conform Ph.Eur.	Colour .....	Conform USP-NF	Halogenated compounds .....	<= 30 ppm
Acidity or alkalinity .....	Conform Ph.Eur.	Organic volatile impurities .....	Conform USP-NF	Heavy metals (Pb) .....	<= 5 ppm
Aldehydes .....	<= 10 ppm	Density at 25°C .....	>= 1.249	Sulphate .....	<= 20 ppm
Diethyl.glyc.rel.subst. ....	Conform Ph.Eur.	Refractive index at 20°C .....	1.470 - 1.475	Assay (acidimetric) .....	99.0 - 101.0 % s.s.
Sugar .....	Conform Ph.Eur.	Water (K.F.) .....	<= 2.0 %		

Code	Size	Packaging	Notes
346161	1l	Glass bottle	
346165	2,5l	Glass bottle	
346164	35kg	Metal tank	
346167	250kg	Metal drum	

Glycerol > RE-Pure

RE

Description .....	Clear colourless liquid	pH 10% at 25° C .....	5 - 7	Sulphate .....	<= 20 ppm
Identification .....	Positive	Chloride .....	<= 10 ppm	As .....	<= 0.5 ppm
Density at 20° C .....	1.258 - 1.264	Heavy metals (Pb) .....	<= 5 ppm	Fe .....	<= 1 ppm
Refractive index at 20°C .....	1.4710 - 1.4740	Residue on ignition .....	<= 100 ppm		

Code	Size	Packaging	Notes
346102	1l	Glass bottle	
346106	35kg	Metal tank	

Glycerol 90% (28° Bé)

CH<sub>2</sub>OHCHOHCH<sub>2</sub>OH  
Molecular Weight 92  
CAS : 56-81-5  
EEC-N : 200-289-5

Glycerol 90% (28° Bé) > RE-Pure

RE

Description .....	Clear colourless liquid	Heavy metals (Pb) .....	<= 5 ppm	Refractive index at 20°C .....	1.4490 - 1.4550	Chloride .....	<= 10 ppm
Identification .....	Positive	Residue on ignition .....	<= 100 ppm	Aldehydes .....	<= 10 ppm	Water (K.F.) .....	11.5 - 16.5 %
Density at 20° C .....	1.220 - 1.233	Appearance of solution .....	Conform	Esters .....	Conform	Assay .....	83.5 - 88.5 %
Chlorinated compounds .....	<= 30 ppm	Acidity or alkalinity .....	Conform	Sugar .....	Conform		

Code	Size	Packaging	Notes
346131	1l	Glass bottle	
346132	2,5l	Glass bottle	
346134	35kg	Plastic tank	

Glycine

Synonyms : *Aminoethanoic acid*  
*Glycocol*

CH<sub>2</sub>NH<sub>2</sub>COOH  
Molecular Weight 75,07  
CAS : 56-40-6  
EEC-N : 200-272-2

Glycine > RPE-For analysis

RPE

Description .....	White crystalline powder	Loss on drying .....	<= 0.2 %	Heavy metals (Pb) .....	<= 20 ppm
Identification (I.R.) .....	Positive	Chloride .....	<= 70 ppm	Sulphated ash .....	<= 0.1 %
Hydrolyzable matter .....	Conform	Sulphate .....	<= 65 ppm	Assay (non-aqueous medium) .....	>= 98.5 % (s.s.)

Code	Size	Packaging	Notes
453804	100g	Glass bottle	
453807	1kg	Plastic bottle	

## Glycine > ERBAPharm-According to pharmacopoeia: Ph.Eur.-USP-Ph.Franc.

**ERBAPharm**

Description.....	White crystalline powder	pH solution 5% .....	5.9 - 6.4	Heavy metals (Pb).....	<=10 ppm
Identification.....	Positive	Loss on drying.....	<=0.2 %	Sulphate .....	<=65 ppm
Appearance of solution.....	Conform Ph.Eur.	Sulphated ash.....	<=0.1 %	Assay (non-aqueous medium) .....	98,5 - 101,0 % s.s.
Hydrolyzable matter.....	Conform USP-NF	Chloride .....	<=70 ppm	Substance ninhydrin-positive.....	Conform Ph.Eur.

Code	Size	Packaging	Notes
346207	1kg	Plastic bottle	
346205	5kg	Plastic bottle	
346208	25kg	Plastic bucket	

## Glycolic acid

Synonym : Hydroxyacetic acid

CH<sub>2</sub>OHCOOH  
 Molecular Weight 76,05  
 CAS : 79-14-1  
 EEC-N : 201-180-5


**Danger**

3.2/1B; H314-3.1.0/4; H302  
 P260-P280-P304+P340-P305+P351+P338-P405-P501a

## Glycolic acid > RPE-For analysis

**RPE**

Description.....	White crystals	Melting point .....	72 - 80 °C	Water .....	<= 1 %
Identification.....	Positive	Assay (acidimetric).....	>= 98,5 % s.s.		

Code	Size	Packaging	Notes
406434	100g	Glass bottle	
406437	1kg	Plastic bottle	

## Glyoxal standard solution

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

**RS**

Code	Size	Packaging	Notes
615003700	100ml	Bottle	A 20 ppm solution : to dilute according to Ph.Eur 5003700

## Glyoxal-bis-(2-hydroxyanil)

C<sub>14</sub>H<sub>12</sub>N<sub>2</sub>O<sub>2</sub>  
 Molecular Weight 240,26  
 CAS : 1149-16-2  
 EEC-N : 214-560-0


**Warning**

3.2/2; H315-3.3/2; H319-3.8/3; H335  
 P261-P271-P304+P340-P305+P351+P338-P405-P501a

## Glyoxal-bis-(2-hydroxyanil) > RPE-For analysis

**RPE**

Description.....	Beige powder	Loss on drying .....	<= 0.5 %	Assay (HPLC).....	>= 97 %
Identification.....	Positive	Sulphated ash.....	<= 0.1 %		

Code	Size	Packaging	Notes
454131	10g	Glass bottle	

For the spectrophotometric determination of calcium. Indicator for the complexometric titration of calcium.

## Gold standard solution

## Gold standard solution > RS-Standard for ICP-MS

**RS**

Code	Size	Packaging	Notes
505316	50ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
505317	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
505318	100ml	Plastic bottle	conc. 100 ppm Matrix : Hydrochloric acid

► Gold standard solution > RS-Standard for ICP

RS

Code	Size	Packaging	Notes
503431	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
503435	100ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrochloric acid
503433	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
503437	500ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrochloric acid

► Gold standard solution > RS-Standard for AAS

RS

Description.....Yellow clear liquid Identification.....Positive Titration factor.....0.998 - 1.002

Code	Size	Packaging	Notes
E497585	100ml	Glass bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
E497581	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid

► 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	Normex	Plastic ampoule	conc. 1.000 ppm Matrix : Hydrochloric acid

► Gold, sheet

Au  
Molecular Weight 196,96  
CAS : 7440-57-5  
EEC-N : 231-165-9

► Gold, sheet > RPE-For analysis

RPE

Description.....foil Identification.....Positive Assay (gravimetric).....>=99.9 %

Code	Size	Packaging	Notes
466978	5g	Bag	

► Gold, wire

Au  
Molecular Weight 196,96  
CAS : 7440-57-5  
EEC-N : 231-165-9

► Gold, wire > RPE-For analysis

RPE


Description.....wire Identification.....Positive Assay (gravimetric).....>=99.9 %

Code	Size	Packaging	Notes
466958	5g	Bag	

► Gold(III) chloride trihydrate Synonym : Tetrachloroauric(III) acid

HAuCl<sub>4</sub>.3H<sub>2</sub>O  
Molecular Weight 393,83  
CAS : 16961-25-4  
EEC-N : 240-948-4

**Classification transport**  
ONU: 3260  
Transport Hazard class: 8  
Packing group III

 **Danger**  
3.2/1B; H314-3.4.S/1; H317  
P260-P261-P304+P340-P305+P351+P338-P405-P501a

► Gold(III) chloride trihydrate > RPE-For analysis-ACS

RPE

Description.....Orange crystalline powder Insol.in Diethyl ether.....<= 0.1 % Assay (Au).....>= 49.0 %  
Identification.....Positive Metals (SO<sub>4</sub>).....<= 0.2 %

Code	Size	Packaging	Notes
467007	1g	Glass bottle	

## Gowers' reagent

### Gowers' reagent > RS-For microscopy

RS

Description.....Clear colourless liquid Identification.....Positive

Code	Size	Packaging	Notes
446882	1l	Glass bottle	

*Dye for hematology. For counting the erythrocytes.*

## Gram complete kit

### Gram complete kit > RS-For microscopy

RS

Description..... Identification.....Positive

Code	Size	Packaging	Notes
454441	4x250ml	Plastic bottle	

*Dye bacteriology. Contains ethanol. 4 bottles of 250 ml. 1x 477241 Safranin T, 1x 458751 iodine, 1x 444131 differentiator 1x 491561 Violet oxalate crystals.*

## Graphite

C  
Molecular Weight 12,01  
CAS : 7782-42-5  
EEC-N : 231-955-3



#### Warning

3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

### Graphite > RE-Pure

RE

Description.....Black-grey powder Identification.....Positive

Code	Size	Packaging	Notes
454407	1kg	Bag	

## Green solvents

Cyclopentyl methyl ether .....150 1,3-Dioxolane .....178 2-Methyltetrahydrofuran .....335  
n,n'-Dimethylpropylene uree.....173 1,3-Propanediol.....432

## Griess' reagent

#### Classification transport

ONU: 3265  
Transport Hazard class: 8  
Packing group III



#### Danger

3.2/1A; H314-EUH208  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

### Griess' reagent > RS-For nitrite detection

RS

Description.....Clear pinkish liquid Identification.....Positive

Code	Size	Packaging	Notes
454481	1l	Glass bottle	

## Griess' reagent A

CAS : 121-57-3

**Classification transport**  
 ONU: 2790

**Danger**  
 3.2/1A; H314-EUH208  
 P260-P280-P304+P340-P305+P351+P338-P405-P501a

## ▶ Griess' reagent A &gt; RS-For nitrite detection

RS

Description .....Clear pinkish liquid Identification.....Positive Nitrite sensitivity.....&gt;= 1 mcg/ml

Code	Size	Packaging	Notes
454452	500ml	Glass bottle	

## Griess' reagent B

CAS : 134-32-7

**Classification transport**  
 ONU: 3265

**Danger**  
 3.2/1A; H314  
 P260-P280-P304+P340-P305+P351+P338-P405-P501a

## ▶ Griess' reagent B &gt; RS-For nitrite detection

RS

Description .....Clear pinkish liquid Identification.....Positive Nitrite sensitivity.....&gt;= 1 mcg/ml

Code	Size	Packaging	Notes
454462	500ml	Glass bottle	

## Gum arabic

 CAS : 9000-01-5  
 EEC-N : 232-519-5

**Warning**  
 3.3/2; H319  
 P280-P264-P305+P351+P338-P337+P313

## ▶ Gum arabic &gt; ERBAPharm-According to pharmacopoeia: BP-FU-Ph.Eur.-Ph.Franc.

ERBAPharm

 Description.....White-yellowish granules Starch and Dextrins .....Conform Ph.Eur. Total ash.....<= 4.0 % Escherichia coli.....Absent Ph.Eur.  
 Identification.....Positive Saccarose and fructose.....Conform Ph.Eur. Microbial tests.....Salmonella.....Absent Ph.Eur.  
 Agar and tragacanth.....Conform Ph.Eur. Tannin .....Conform Ph.Eur. TAMC .....<= 10000 CFU/g  
 Agar and sterculia.....Conform Ph.Eur. Loss on drying .....<= 10.0 % TYMC .....<= 100 CFU/g

Code	Size	Packaging	Notes
347107	1kg	Plastic bottle	
347109	5kg	Plastic bottle	
347104	50kg	Fibre drum	

## Haemalum solution

**Classification transport**  
 ONU: 2206  
 Transport Hazard class: 6.1  
 Packing group III

**Danger**  
 3.8/1; H370  
 P260-P264-P270-P307+P311-P405-P501a

## ▶ Haemalum solution &gt; RS-For microscopy

RS

 Description .....Red-brown liquid Density at 20°C.....1.086 - 1.090  
 Identification.....Positive pH of the substance.....2.1 - 2.3

Code	Size	Packaging	Notes
E434352	6x250ml	Glass bottle	Dye for cytology according to Carazzi
446372	6x1l	Glass bottle	Dye for cytology according to Mayer

# HAF

## Hafnium standard solution

### Hafnium standard solution > RS-Standard for ICP-MS

RS

Code	Size	Packaging	Notes
505641	50ml	Plastic bottle	
505642	100ml	Plastic bottle	
505645	100ml	Plastic bottle	conc. 100 ppm Matrix : Hydrofluoric acid and nitric acid

### Hafnium standard solution > RS-Standard for ICP

RS

Code	Size	Packaging	Notes
504221	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrofluoric acid and nitric acid
504225	100ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrofluoric acid and nitric acid
504223	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrofluoric acid and nitric acid
504227	500ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrofluoric acid and nitric acid

# H

## Hanus's reagent

### Classification transport

ONU: 2920  
 Transport Hazard class: 8  
 Packing group II



### Danger

3.2/1A; H314-2.6/3; H226  
 P210-P241-P304+P340-P305+P351+P338-P403+P235-P405-P501a

### Hanus's reagent > RS-For detecting index iodic

RS

Description.....Brown red liquid Identification.....Positive Iodine value .....>= 90

Code	Size	Packaging	Notes
E454872	1l	Glass bottle	

## Hayem's reagent



### Warning

3.1.O/4; H302-4.1.C/3; H412  
 P273-P264-P270-P330-P301+P312-P501a

### Hayem's reagent > RS-For microscopy

RS

Description.....Clear colourless liquid Identification.....Positive

Code	Size	Packaging	Notes
454881	500ml	Glass bottle	

Dye for hematology. For counting the erythrocytes.

## Hematoxylin

C<sub>16</sub>H<sub>14</sub>O<sub>6</sub>  
 Molecular Weight 302,29  
 CAS : 517-28-2  
 EEC-N : 208-237-3



### Warning

3.1.D/4; H312-3.1.I/4; H332  
 P261-P271-P280-P304+P340-P312-P501a

### Hematoxylin > RS-For microscopy-C.I. 75290

RS

Description.....Brown powder Loss on drying .....4 - 9 % Alcohol solubility.....Conform  
 Identification.....Positive Assay .....>= 75 % Melting point.....~ 140 °C

Code	Size	Packaging	Notes
446472	25g	Glass bottle	
446473	100g	Glass bottle	
446475	1kg	Plastic bottle	

Dye for cytology

## Hematoxyline solution

## Classification transport

ONU: 2206  
 Transport Hazard class: 6.1  
 Packing group III

## ▶ Hematoxyline solution &gt; RS-For microscopy

RS

Description .....Red-violet liquid Identification.....Positive

Code	Size	Packaging	Notes
460512	6x100ml	Glass bottle	
460515	6x1l	Glass bottle	

Dye for cytology according Mayer.

## Heptafluorobutyric acid

Synonyms : HFBA  
 Perfluorobutyric acid

$\text{CF}_3(\text{CF}_2)_2\text{COOH}$   
 Molecular Weight 214,04  
 CAS : 375-22-4  
 EEC-N : 206-786-3

## Classification transport

ONU: 3265  
 Transport Hazard class: 8  
 Packing group III



## Danger

3.2/1B; H314  
 P260-P280-P304+P340-P305+P351+P338-P405-P501a

## ▶ Heptafluorobutyric acid &gt; RPE-For analysis

RPE

Description .....Clear colourless liquid Density at 20° C.....1.64 - 1.65 Assay (acidimetric) .....>=99 %  
 Identification.....Positive Boiling point .....120 - 121 ° C

Code	Size	Packaging	Notes
405451	10ml	Glass bottle	

For derivatization.

## n-Heptane 99%

$\text{CH}_3(\text{CH}_2)_5\text{CH}_3$   
 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

2.6/2; H225-3.10/1; H304-4.1.A/1; H400-4.1.C/1; H410-3.2/2; H315-3.8/3; H336  
 P210-P241-P304+P340-P403+P235-P405-P501a

## ▶ n-Heptane 99% &gt; RS-For HPLC Isocratic

RS

Description .....Clear colourless liquid Water (K.F.).....<=100 ppm At 200 nm .....>=20 % At 250 nm .....>= 98 %  
 Identification.....Positive Residue on evaporation .....<=5 ppm At 210 nm .....>=55 % At 260 nm .....>=99 %  
 Density at 20° C.....0.681 - 0.687 Acidity or alkalinity.....<=0.00015 meq/g At 220 nm .....>=80 % Aromatic compounds .....<= 5 ppm  
 Refractive index at 20°C .....1.3836 - 1.3916 Assay (GLC).....>=99.2 % At 230 nm .....>=92 %  
 Boiling point .....97.9 - 98.9 ° C U.V. Transmittance At 240 nm .....>=96 %

Code	Size	Packaging	Notes
412591000	1l	Glass bottle	
412592000	2,5l	Glass bottle	

## ▶ n-Heptane 99% &gt; RS-PESTIPUR- For pesticide analysis

RS

Description .....Clear liquid Water .....<= 0.005 % GC-ECD (Lindane).....<= 3 ng/l  
 Identification.....Positive Free acids (HCOOH) .....<= 10 ppm Assay (GLC).....>= 99 %  
 Colour.....<= 10 APHA Not volatile residue.....<= 5 ppm Total sulphur (S) .....<= 5 ppm

Code	Size	Packaging	Notes
446951	1l	Glass bottle	
446952	2,5l	Glass bottle	

Product specifications are subject to changes.  
 Please visit our website for updates.

# HEP

## n-Heptane 99% > RS-SPECTROSOL - For optical spectroscopy

RS

Description .....	Clear liquid	Boiling point .....	97.9 - 98.9 °C	Aromatic compounds .....	<=5 ppm	At 220 nm .....	>=80 %
Colour .....	<=10 APHA	Water (K.F.) .....	<=100 ppm	Assay (GLC) .....	>=99 %	At 230 nm .....	>=92 %
Identification .....	Positive	Residue on evaporation .....	<=5 ppm	<b>U.V. Transmittance</b>		At 250 nm .....	>=98 %
Density at 20° C .....	0.681 - 0.687	Acidity .....	<=0.0005 meq/g	At 200 nm .....	>=20 %		
Refractive index at 20°C .....	1.3836 - 1.3916	Alcalinity .....	<=0.0002 meq/g	At 210 nm .....	>=50 %		

Code	Size	Packaging	Notes
446824	1l	Glass bottle	

## n-Heptane 99% > RS-Anhydrous-For analysis

RS

Refractive index at 20°C .....	1.386 - 1.390	Assay (GC) .....	>= 99 %	Clear, colourless liq. appearance .....	Conform
Water content (K.F.) .....	<= 50 mg/Kg	Aromatic compounds .....	<= 50 mg/Kg	Density d20/4 .....	0.681 - 0.687
Non volatile residue .....	<= 10 mg/Kg	Free acid (as CH3COOH) .....	<= 10 mg/Kg	Total sulphur (S) .....	<= 5 ppm
Colour .....	<= 10 Hazen	Identification (IR) .....	Conform		

Code	Size	Packaging	Notes
P0501021	2,5l	Glass bottle	

## n-Heptane 99% > RPE-For analysis

RPE

Description .....	Clear liquid	Ready carbonizable substances .....	Conform	Residue on evaporation .....	<= 10 ppm	Aromatic compounds .....	<= 50 ppm
Colour .....	<=10 APHA	Density at 20° C .....	0.681 - 0.687	Subst. reducing KMnO4 .....	<=20 ppm(5m)	Acidity (acetic acid) .....	<= 10 ppm
Identification .....	Conform	Refractive index at 20°C .....	1.3836 - 1.3916	Tiophene .....	<=10 ppm		
Chloroform miscibility .....	Complete	Boiling point .....	97.4 - 99.4 °C	Total sulphur .....	<= 5 ppm		
Diethyl ether miscib. ....	Complete	Water (K.F.) .....	<=100 ppm	Assay (GLC) .....	>=99.0 %		

Code	Size	Packaging	Notes
446787	1l	Glass bottle	
446785	2,5l	Glass bottle	
446781	5l	Aluminium can	
446783	5l	Plastic tank	
446788	200l	Metal drum	
446782	18kg	Metal tank	
446789	135kg	Metal drum	

## n-Heptane 99% > RE-Pure

RE

Description .....	Clear colourless liquid	Density at 20° C .....	0.679 - 0.689	Water (K.F.) .....	<= 150 ppm	Total sulphur .....	<= 5 ppm
Identification .....	Positive	Refractive index at 20°C .....	1.3826 - 1.3926	Residue on evaporation .....	<= 20 ppm	Assay (GLC) .....	>= 99 %
Colour .....	<= 10 APHA	Boiling point .....	97.4 - 99.4 °C	Acidity (acetic acid) .....	<= 10 ppm	Aromatic compounds .....	<= 50 ppm

Code	Size	Packaging	Notes
339381	1l	Glass bottle	
339385	2,5l	Glass bottle	
339382	5l	Aluminium can	
528224	5l	Plastic tank	
528228	10l	Metal tank	
528225	25l	Metal tank	
528226	200l	Metal drum	
339386	18kg	Metal tank	

## n-Heptane

CH<sub>3</sub>(CH<sub>2</sub>)<sub>5</sub>CH<sub>3</sub>  
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**

2.6/2; H225-3.10/1; H304-4.1.A/1; H400-4.1.C/1; H410-3.2/2; H315-3.8/3; H336  
P210-P241-P304+P340-P403+P235-P405-P501a

## n-Heptane > RS-PESTIPUR- For pesticide analysis

RS

Refractive index at 20°C .....	1.386 - 1.390	Assay (GC) .....	>= 95 %	Retention time trichlorobenzene to mirex	
Water content (K.F.) .....	<= 50 mg/Kg	Non volatile residue .....	<= 5 mg/Kg		
Colour .....	<= 10 Hazen	GC-ECD. Individual peak (Lindane) .....	<= 3 ng/l		

Code	Size	Packaging	Notes
446851	1l	Glass bottle	



## ► n-Heptane &gt; RE-Pure

Description ..... Clear colourless liquid Residue on evaporation ..... ≤ 10 ppm Benzene ..... ≤ 10 ppm  
 Colour ..... ≤ 10 APHA Water (K.F.) ..... ≤ 100 ppm Aromatics ..... ≤ 100 ppm  
 Identification ..... Positive Assay (GLC) ..... ≥ 95.0 %

Code	Size	Packaging	Notes
508212	1l	Glass bottle	
508215	5l	Plastic tank	
508216	25l	Metal tank	
508217	200l	Metal drum	

## ▶ Heptane mixture of isomers

CH<sub>3</sub>(CH<sub>2</sub>)<sub>5</sub>CH<sub>3</sub>  
 Molecular Weight 100,21  
 CAS : 142-82-5  
 EEC-N : 205-563-8

## Classification transport

ONU: 1206  
 Transport Hazard class: 3  
 Packing group II



2.6/2; H225-3.10/1; H304-4.1.A/1; H400-4.1.C/1; H410-3.2/2; H315-3.8/3; H336  
 P210-P241-P304+P340-P403+P235-P405-P501a

H

## ▶ Heptane mixture of isomers &gt; RS-PESTIPUR- For pesticide analysis

Refractive index at 20°C ..... 1.387 - 1.407 Aromatic compounds ..... ≤ 100 mg/Kg Retention time trichlorobenzene to mirex  
 Water content (K.F.) ..... ≤ 50 mg/Kg Non volatile residue ..... ≤ 5 mg/Kg  
 Colour ..... ≤ 10 Hazen GC-ECD. Individual peak (Lindane) ..... ≤ 3 ng/l

Code	Size	Packaging	Notes
446842	2,5l	Glass bottle	

## ▶ Heptane mixture of isomers &gt; RPE-For analysis

Appearance ..... Clear colourless liquid Density at 15°C ..... 0.690 - 0.725 g/l Non volatile residue ..... ≤ 10 mg/Kg  
 Identification ..... Conform Distillation range ..... 85 - 105 °C Aromatic compounds ..... ≤ 100 mg/Kg  
 Colour ..... ≤ 10 Apha End/initial boiling points difference ..... ≤ 10 °C n-hexane ..... None %  
 Refractive index at 20°C ..... 1.387 - 1.407 Water content (K.F.) ..... ≤ 100 mg/Kg Toluene ..... None mg/Kg

Code	Size	Packaging	Notes
524381	5l	Plastic tank	

## ▶ Heptane mixture of isomers &gt; RE-Pure

Description ..... Clear liquid Refractive index at 20°C ..... 1,3870 - 1,4070 Water (K.F.) ..... ≤ 150 ppm  
 Identification ..... Positive Density at 15°C ..... 0,690 - 0,725 Residue on evaporation ..... ≤ 100 ppm  
 Colour ..... ≤ 10 APHA Boiling point ..... 85 - 105 °C Aromatics (Thiophene) ..... ≤ 200 ppm

Code	Size	Packaging	Notes
528245	5l	Plastic tank	
528246	25l	Metal tank	
528247	200l	Metal drum	

## ▶ 1-Heptanesulphonic acid sodium salt

C<sub>7</sub>H<sub>15</sub>O<sub>3</sub>SNa  
 Molecular Weight 202,25  
 CAS : 22767-50-6  
 EEC-N : 245-210-5

## ▶ 1-Heptanesulphonic acid sodium salt &gt; RS-For ionic exchange chromatography

Description ..... White crystalline powder Assay ..... ≥ 99 % At 220 nm ..... ≤ 0.04 AU At 260 nm ..... ≤ 0.01 AU  
 Identification ..... Positive Absorbance (Sol. 0.25M) At 230 nm ..... ≤ 0.03 AU  
 Loss on drying ..... ≤ 2 % At 200 nm ..... ≤ 0.1 AU At 240 nm ..... ≤ 0.01 AU  
 pH sol 10% ..... 5.5 - 7.5 At 210 nm ..... ≤ 0.05 AU At 250 nm ..... ≤ 0.01 AU


Code	Size	Packaging	Notes
405851	25g	Glass bottle	

# HEX

## Hexachloroplatinic acid hexahydrate

H<sub>2</sub>PtCl<sub>6</sub>.6H<sub>2</sub>O  
Molecular Weight 517,92  
CAS : 18497-13-7  
EEC-N : 241-010-7

**Classification transport**  
ONU: 2507  
Transport Hazard class: 8  
Packing group III

 **Danger**  
3.4.R/1; H334-3.2/2; H315-3.3/2; H319-3.4.S/1; H317  
P261-P280-P285-P305+P351+P338-P342+P311-P501a

### Hexachloroplatinic acid hexahydrate > RPE-For analysis


RPE

Description .....Red-orange mass Metallic total traces .....<= 0.1 %  
Identification.....Positive Assay.....38 - 40 % Pt

Code	Size	Packaging	Notes
470017	1g	Bottle	

## Hexadecane

C<sub>16</sub>H<sub>34</sub>  
Molecular Weight 226,44  
CAS : 544-76-3  
EEC-N : 208-878-9

 **Danger**  
3.10/1; H304  
P301+P310-P331-P405-P501a

### Hexadecane > RE-Pure-For synthesis

RE


Refractive index at 20°C .....1.433 - 1.437 Assay (GC).....>= 99 % Colour .....<= 10 Hazen

Code	Size	Packaging	Notes
P0853016	1l	Glass bottle	

## Hexafluoro-2-propanol

C<sub>3</sub>H<sub>2</sub>FeO  
Molecular Weight 168,04  
CAS : 920-66-1  
EEC-N : 213-059-4

**Classification transport**  
ONU: 2922  
Transport Hazard class: 8  
Packing group II

 **Danger**  
3.1.O/3; H301-3.1.D/3; H311-3.1.I/3; H331-3.2/1B; H314  
P260-P261-P304+P340-P305+P351+P338-P405-P501a

### Hexafluoro-2-propanol > RPE-For analysis

RPE

Identification (IR).....Conform Colour .....<= 10 Hazen Assay (GC).....>= 99 %


Code	Size	Packaging	Notes
P6080503	100ml	Glass bottle	
P6080518	500ml	Glass bottle	

## Hexamethyldisilazane

Synonyms : HMDS  
1,1,1,3,3,3-Hexamethyldisilazane

(CH<sub>3</sub>)<sub>3</sub>SiNHSi(CH<sub>3</sub>)<sub>3</sub>  
Molecular Weight 161,4  
CAS : 999-97-3  
EEC-N : 213-668-5

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

 **Danger**  
2.6/2; H225-3.1.D/3; H311-3.1.O/4; H302-3.2/2; H315-3.3/2; H319-3.8/3; H335  
P210-P241-P304+P340-P305+P351+P338-P403+P235-P405-P501a

### Hexamethyldisilazane > RPE-For analysis

RPE

Description .....Clear liquid Identification.....Positive Assay (GLC).....>= 97.5 %  
Colour.....<= 10 APHA Refractive index at 20°C .....1.4060 - 1.4090

Code	Size	Packaging	Notes
446731	25ml	Glass bottle	


For derivatization.

## Hexamethylenetetramine

Synonyms : *Hexamine*  
*HMT*

(CH<sub>2</sub>)<sub>6</sub>N<sub>4</sub>  
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

 **Danger**  
2.6/1; H224-2.7/2; H228-3.4.S/1; H317  
P210-P241-P243-P363-P403+P235-P501a

### Hexamethylenetetramine > RPE-For analysis-ACS-Reag.Ph.Eur.-Reag.USP

RPE


Description.....colourless/white crystalline powder Water (K.F.).....<= 0.5 % Loss on drying 130°C.....<= 2 %  
Identification.....Positive Ash.....<= 0.05 % Heavy metals (Pb).....<= 10 ppm  
pH sol. 1% .....7 - 10 Assay (alkalimetric).....>= 99.0 %

Code	Size	Packaging	Notes
446875	250g	Plastic bottle	
446876	1kg	Plastic bottle	

## n-Hexane 99%

CH<sub>3</sub>(CH<sub>2</sub>)<sub>4</sub>CH<sub>3</sub>  
Molecular Weight 86  
CAS : 110-54-3  
EEC-N : 203-777-6

**Classification transport**  
ONU: 1208  
Transport Hazard class: 3  
Packing group II

 **Danger**  
2.6/2; H225-3.10/1; H304-3.7/2; H361f-3.9/2; H373-3.2/2; H315-3.8/3; H336-4.1.C/2; H411  
P210-P241-P304+P340-P403+P235-P405-P501a

### n-Hexane 99% > RS-For HPLC Isocratic

RS

Clear, colourless liq. appearance.....Conform Water content (K.F.).....<= 150 mg/Kg At 220 nm.....>= 80 % Assay (GC).....>= 99 %  
Identification.....Conform Aromatic compounds.....<= 5 mg/Kg At 230 nm.....>= 90 % Total sulphur (S).....<= 5 ppm  
Colour.....<= 10 Apha U.V. Transmittance..... At 245 nm.....>= 98 %  
Refractive index at 20°C.....1.373 - 1.377 At 210 nm.....>= 50 % Non volatile residue.....<= 5 mg/Kg

Code	Size	Packaging	Notes
412691	1l	Glass bottle	
412692	2,5l	Glass bottle	

### n-Hexane 99% > RS-ATRASOL- For trace analysis

RS

Refractive index at 20°C.....1.373 - 1.377 GC (FID) - NC Atrasol.....Conform GC-ECD. Individual peak (Lindane).....<= 2 ng/l  
Water content (K.F.).....<= 50 mg/Kg Non volatile residue.....<= 2 mg/Kg **Retention time trichlorobenzene to mirex**  
Colour.....<= 10 Hazen GC-ECD. Individual peak (COI4).....<= 1 µg/l GC-FID. Individ. peak (hexadecane).....<= 5 µg/l  
Assay (GC).....>= 99 % **Ret.time dichloromethane- trichlorobenz.** **Retention time range over toluene**

Code	Size	Packaging	Notes
P052323016	1l	Glass bottle	
P052323021	2,5l	Glass bottle	

### n-Hexane 99% > RS-PESTIPUR- For pesticide analysis

RS

Description.....Clear liquid Assay (GLO).....>= 99 % GC-ECD (Lindane standard).....<= 3 ng/l  
Identification.....Positive Not volatile residue.....<= 5 mg/kg GC-NPD (Ethylparathion standard).....<= 3 ng/l  
Colour.....<= 10 hazen Water.....<= 150 mg/kg

Code	Size	Packaging	Notes
447111	1l	Glass bottle	
447112000	2,5l	Glass bottle	

### n-Hexane 99% > RS-SPECTROSOL - For optical spectroscopy

RS

Clear, colourless liq. appearance.....Conform Water content (K.F.).....<= 150 mg/Kg Assay (GC).....>= 99 % At 220 nm.....>= 80 %  
Identification.....Conform Total sulphur (S).....<= 5 ppm **U.V. Transmittance** At 230 nm.....>= 94 %  
Colour.....<= 10 Apha Aromatic compounds.....<= 5 mg/Kg At 210 nm.....>= 60 % At 245 nm.....>= 98 %  
Refractive index at 20°C.....1.373 - 1.377 Non volatile residue.....<= 5 mg/Kg At 215 nm.....>= 70 %

Code	Size	Packaging	Notes
447051	1l	Glass bottle	
447052	2,5l	Glass bottle	

## n-Hexane 99% > RS-Anhydrous- For HPLC

**RS**

Refractive index at 20°C .....1.373 - 1.377 Aromatic compounds.....<= 5 mg/Kg At 220 nm.....>= 80 % Non volatile residue .....<= 5 mg/Kg  
 Water content (K.F.) .....<= 50 mg/Kg **U.V. Transmittance** At 230 nm.....>= 90 % Assay (GC).....>= 99 %  
 Colour .....<= 10 Hazen At 210 nm.....>= 50 % At 245 nm.....>= 98 % Total sulphur (S).....<= 5 ppm

Code	Size	Packaging	Notes
P05230S01/21	2,5l	Glass bottle	

## n-Hexane 99% > RPE-For analysis

**RPE**

Description .....Clear colourless liquid Refractive index at 20°C .....1.373 - 1.377 Total sulphur (S) .....<= 5 ppm  
 Identification.....Positive Water (K.F.) .....<= 100 ppm Residue on evaporation .....<= 10 ppm  
 Colour.....<= 10 APHA Aromatic compounds .....<= 10 ppm Assay (CPG).....>= 99 %

Code	Size	Packaging	Notes
447041	1l	Glass bottle	
447042	2,5l	Glass bottle	

## n-Hexane 99% > RE-Pure

**RE**

Description .....Clear liquid Density at 20°C .....0.658 - 0.662 Residue on evaporation .....<= 20 ppm Total sulphur .....<= 5 ppm  
 Colour.....<= 10 APHA Refractive index at 20°C .....1.3699 - 1.3799 Water (K.F.).....<= 150 ppm Assay (GLC).....>= 99 %  
 Identification.....Positive Boiling point .....68.2 - 69.2 °C Bromine rating.....<= 1 Aromatic compounds .....<= 50 ppm

Code	Size	Packaging	Notes
528950	5l	Plastic tank	
528951	25l	Metal tank	
528952	200l	Metal drum	

## n-Hexane

CH<sub>3</sub>(CH<sub>2</sub>)<sub>4</sub>CH<sub>3</sub>  
 Molecular Weight 86  
 CAS : 110-54-3  
 EEC-N : 203-777-6

### Classification transport

ONU: 1208  
 Transport Hazard class: 3  
 Packing group II


**Danger**

2.6/2; H225-3.10/1; H304-3.7/2; H361f-3.9/2; H373-3.2/2; H315-3.8/3; H336-4.1.C/2; H411  
 P210-P241-P304+P340-P403+P235-P405-P501a

## n-Hexane > RS-For HPLC Isocratic

**RS**

Description .....Clear colourless liquid Water (K.F.).....<=100 ppm At 210 nm.....>=50 % At 250 nm.....>=99 %  
 Identification.....Positive Residue on evaporation .....<=2 ppm At 220 nm.....>=82 % Aromatic compounds .....<= 10 ppm  
 Density at 25° C .....>=0.662 Acidity or alkalinity.....<=0.00015 meq/g At 230 nm.....>=92 % Total sulphur (S).....<= 5 ppm  
 Refractive index at 20°C .....1.3719 - 1.3779 Assay (GLC).....>=96 % At 240 nm.....>=95 %  
 Boiling point .....68.5 - 69.0 °C **U.V. Transmittance** At 245 nm.....>= 98 %

Code	Size	Packaging	Notes
412601000	1l	Glass bottle	
412602000	2,5l	Glass bottle	

## n-Hexane > RS-ATRASOL-For trace analysis, Suitable for hydrocarbon index determination

**RS**

Appearance .....Clear colourless liquid Colour .....<= 5 Hazen Hydrocarbon oil index .....<= 0.05 mg/l  
 Identification.....Conform Assay (GC).....>= 96.5 % **Retention time n-decane - n-tetracontane**  
 Density d20/4 .....0.655 - 0.665 Non volatile residue .....<= 2 mg/Kg GC-FID. Individual peak (C10-C40).....<= 5 °g/l  
 Refractive index at 20°C .....1.373 - 1.377 GC-ECD.Individual peak (Lindane) .....<= 3 ng/l  
 Water content (K.F.) .....<= 50 mg/Kg **Retention time trichlorobenzene to mirex**

Code	Size	Packaging	Notes
P0523221	2,5l	Glass bottle	

## n-Hexane > RS-PESTIPUR- For pesticide analysis

**RS**

Description .....Clear liquid Refractive index at 20° C .....1.373 - 1.377 GC-ECD (Lindane).....<= 3 ng/l  
 Identification.....Positive Water (K.F.) .....<= 150 ppm GC-NPD (Ethylparation).....<= 3 ng/l  
 Colour.....<= 10 Hazen Not volatile residue.....<= 5 ppm Assay (GLC).....>= 95 %

Code	Size	Packaging	Notes
447011	1l	Glass bottle	
447012	2,5l	Glass bottle	

## n-Hexane > RS-SPECTROSOL - For optical spectroscopy

**RS**

Description .....	Clear liquid	Boiling point .....	67 - 69 °C	Aromatic compounds .....	<=5 ppm	At 220 nm .....	>=82 %
Colour .....	<=10 APHA	Acidity or alkalinity .....	<=0.00015 meq/g	Total sulphur .....	<=5 ppm	At 230 nm .....	>=92 %
Density at 20°C .....	0.659 - 0.663	Water (K.F.) .....	<=100 ppm	Assay (GLC) .....	>=95 %	At 240 nm .....	>=95 %
Refractive index at 20°C .....	1.375 - 1.376	Residue on evaporation .....	<=2 ppm	<b>U.V. Transmittance</b>		At 250 nm .....	>=99 %

Code	Size	Packaging	Notes
446934	1l	Glass bottle	
446932	2,5l	Glass bottle	

## n-Hexane > RS-Anhydrous-For analysis

**RS**

Refractive index at 20°C .....	1.373 - 1.377	Assay (GC) .....	>= 95 %	Density d20/4 .....	0.655 - 0.665
Water content (K.F.) .....	<= 50 mg/Kg	Aromatic compounds .....	<= 10 mg/Kg	Total sulphur (S) .....	<= 5 ppm
Non volatile residue .....	<= 10 mg/Kg	Clear,colourless liq.appearance .....	Conform		
Colour .....	<= 10 Hazen	Identification (IR) .....	Conform		

Code	Size	Packaging	Notes
P0521016	1l	Glass bottle	

## n-Hexane > RPE-For analysis-ACS-Reag. Ph.Eur.

**RPE**

Description .....	Clear liquid	Distillation range .....	67 - 69 °C	Ni .....	<=0.01 ppm
Colour .....	<=10 APHA	Water (K.F.) .....	<=100 ppm	Pb .....	<=0.01 ppm
Identification .....	Positive	Residue on evaporation .....	<=10 ppm	Zn .....	<=0.01 ppm
Alcohol miscibility .....	Complete	Substance acid soluble in water .....	<=0.0003 meq/g	Assay (GLC) .....	>=95 %
Diethyl ether miscib. ....	Complete	Subst. reducing KMnO4 .....	<=20 ppm (5m)	Assay (hexan isomer+methylcyclopentane) .....	>= 98.5 %
Chloroform miscibility .....	Complete	Tiophene .....	Conform ACS	Aromatic compounds .....	<= 10 ppm
Ready carbonizable substances .....	Conform	Total sulphur .....	<= 5 ppm	Al .....	<= 0.5 ppm
Density at 20°C .....	0.659 - 0.663	Cu .....	<=0.01 ppm		
Refractive index at 20°C .....	1.375 - 1.376	Fe .....	<=0.1 ppm		

Code	Size	Packaging	Notes
446907	1l	Glass bottle	
446902	2,5l	Glass bottle PVC coated	
446903	2,5l	Glass bottle	
446901	5l	Aluminium can	
446991	5l	Plastic tank	
446905	18kg	Metal tank	
446904	130kg	Metal drum	

## n-Hexane > RE-Pure

**RE**

Description .....	Clear colourless liquid	Refractive index at 20°C .....	1.3699 - 1.3799	Acidity (Caproic acid) .....	<= 40 ppm	Total sulphur (S) .....	<= 5 ppm
Identification .....	Positive	Boiling point .....	68.2 - 69.2 °C	Assay (GLC) .....	>= 95 %		
Tiophene .....	Conform	Water (K.F.) .....	<= 100 ppm	Colour .....	<= 10 APHA		
Density at 20° C .....	0.655 - 0.665	Residue on evaporation .....	<= 20 ppm	Aromatic compounds .....	<= 50 ppm		

Code	Size	Packaging	Notes
339751	1l	Glass bottle	
339755	2,5l	Glass bottle	
339752	5l	Plastic tank	
339758	25l	Metal tank	
339759	200l	Metal drum	
339756	18kg	Metal tank	
339757	130kg	Metal drum	

## Hexane mixture of isomers

CH<sub>3</sub>(CH<sub>2</sub>)<sub>4</sub>CH<sub>3</sub>  
 Molecular Weight 86  
 CAS : 110-54-3  
 EEC-N : 203-777-6

### Classification transport

ONU: 1208  
 Transport Hazard class: 3  
 Packing group II


**Danger**

2.6/2; H225-3.10/1; H304-3.7/2; H361f-3.9/2; H373-3.2/2; H315-3.8/3; H336-4.1.C/2; H411  
 P210-P241-P304+P340-P403+P235-P405-P501a

## Hexane mixture of isomers > RS-For HPLC Isocratic

**RS**

Clear,colourless liq.appearance .....	Conform	Refractive index at 20°C .....	1.375 - 1.383	Total sulphur (S) .....	<= 5 ppm	At 240 nm .....	>= 94 %
Identification .....	Conform	Water content (K.F.) .....	<= 150 mg/Kg	Non volatile residue .....	<= 5 mg/Kg	At 250 nm .....	>= 98 %
Colour .....	<= 10 Hazen	Aromatic compounds .....	<= 5 mg/Kg	U.V. Transmittance .....		At 260 nm .....	>= 98 %

Code	Size	Packaging	Notes
412631	2,5l	Glass bottle	

Product specifications are subject to changes.  
 Please visit our website for updates.

# HEX

## Hexane mixture of isomers > RS-PESTIPUR- For pesticide analysis

RS

Description.....Clear liquid	Refractive index at 20° C.....1.375 - 1.383	GC-ECD (Lindane).....<= 3 ng/l
Identification.....Positive	Water (K.F.).....<= 150 ppm	GC-NPD (Ethylparation).....<= 3 ng/l
Colour.....<= 10 Hazen	Not volatile residue.....<= 5 ppm	GC-ECD (CCl4).....<= 1 µg/l

Code	Size	Packaging	Notes
447181	1l	Glass bottle	
447182	2,5l	Glass bottle	

## Hexane mixture of isomers > RPE-For analysis

RPE

Clear, colourless liq. appearance.....Conform	Refractive index at 20° C.....1.375 - 1.383	GC chromatogram.....Conform
Identification.....Conform	Water content (K.F.).....<= 100 mg/Kg	Aromatic compounds.....<= 50 mg/Kg
Colour.....<= 10 Apha	Non volatile residue.....<= 10 mg/Kg	Total sulphur (S).....<= 5 ppm

Code	Size	Packaging	Notes
446892	1l	Glass bottle	
446891	2,5l	Glass bottle	
446893	25l	Metal tank	

## Hexane mixture of isomers > RE-Pure

RE

Description.....Clear colourless liquid	Refractive index at 20° C.....1.3750 - 1.3850	Aromatics.....<=30 ppm
Identification.....Positive	Boiling point.....63 - 70 ° C	Residue on evaporation.....<=50 ppm
Density at 20° C.....0.665 - 0.675	Water (K.F.).....<=200 ppm	Total sulphur.....<=5 ppm

Code	Size	Packaging	Notes
339851	1l	Glass bottle	
339852	2,5l	Glass bottle	
528940	5l	Plastic tank	
528941	25l	Metal tank	
528942	200l	Metal drum	
339856	18kg	Metal tank	

## Hexane-d14

CD<sub>3</sub>(CD<sub>2</sub>)<sub>4</sub>CD<sub>3</sub>

## Hexane-d14 > RS-For NMR-min 99%

RS

Code	Size	Packaging	Notes
P5472A	1ml	Plastic ampoule	

## n-Hexane 95% / Propanol-2 60/40 (v/v)

### Classification transport

ONU: 1993  
Transport Hazard class: 3  
Packing group II



Danger

2.6/2; H225-3.7/2; H361f-3.9/2; H373-3.2/2; H315-3.3/2; H319-3.8/3; H336-4.1.C/2; H411  
P210-P241-P304+P340-P305+P351+P338-P403+P235-P405-P501a

## n-Hexane 95% / Propanol-2 60/40 (v/v) > RPE-For analysis

RPE

n-hexane.....59.5 - 60.5 % (V/V) 2-Propanol.....39.5 - 40.5 % (V/V)

Code	Size	Packaging	Notes
PS0861/29	5L	Plastic tank	

## 1-Hexanesulphonic acid sodium salt

CH<sub>3</sub>(CH<sub>2</sub>)<sub>5</sub>SO<sub>3</sub>Na  
Molecular Weight 206,24  
CAS : 2832-45-3  
EEC-N : 220-601-3

## 1-Hexanesulphonic acid sodium salt > RS-For ionic exchange chromatography

RS

Description.....White crystalline powder	Phosphate.....<=10 ppm	Fe.....<=5 ppm	Assay.....>=98 %
Identification.....Positive	Ammonium.....<=0.05 %	K.....<=50 ppm	Transmittance
Water-insoluble matter.....<=0.1 %	Al.....<=5 ppm	Mg.....<=5 ppm	at 220 nm.....>=90
Loss on drying.....<=2.0 %	Ca.....<=10 ppm	Pb.....<=10 ppm	at 250 nm.....>=98
Chloride.....<=0.05 %	Cu.....<=5 ppm	Zn.....<=5 ppm	

Code	Size	Packaging	Notes
405621	25g	Glass bottle	

## Hexanoic acid ▶ n-Caproic acid

### Hippuric acid

Synonyms : Benzoylaminoacetic acid  
N-Benzoylglycine

C<sub>6</sub>H<sub>5</sub>CONHCH<sub>2</sub>COOH  
Molecular Weight 179,17  
CAS : 495-69-2  
EEC-N : 207-806-3

#### Hippuric acid > RPE-For analysis

RPE

Description.....White crystals Heavy metals (Pb).....<=20 ppm Fe.....<=10 ppm  
Identification.....Positive Loss on drying.....<=0.5 % Assay (acidimetric).....>=99 %  
Melting point.....189.0 - 191.0 °C Residue on ignition.....<=100 ppm  
Chloride.....<=10 ppm Sulphate.....<=50 ppm

Code	Size	Packaging	Notes
407012	25g	Glass bottle	

### Histamine dihydrochloride

C<sub>6</sub>H<sub>9</sub>N<sub>3</sub>O<sub>2</sub>.HCl  
Molecular Weight 184,07  
CAS : 56-92-8  
EEC-N : 200-298-4



**Danger**  
3.4.R/1; H334-3.8/3; H335-3.2/2; H315-3.3/2; H319-3.4.S/1; H317  
P261-P304+P340-P305+P351+P338-P342+P311-P405-P501a

#### Histamine dihydrochloride > RPE-For analysis

RPE

Description.....Yellowish crystalline powder Loss on drying.....<= 0.5 % Assay (non-aqueous medium).....>= 98.5 %  
Identification.....Positive Residue on ignition.....<= 0.1 %

Code	Size	Packaging	Notes
456851	10g	Glass bottle	

### L-Histidine hydrochloride

C<sub>6</sub>H<sub>9</sub>N<sub>3</sub>O<sub>2</sub>.HCl.H<sub>2</sub>O  
Molecular Weight 191,66  
CAS : 645-35-2  
EEC-N : 211-438-9

#### L-Histidine hydrochloride > RPE-For analysis

RPE

Description.....White crystalline powder Residue on ignition.....<= 0.1 % pH sol 10%.....3.5 - 4.5  
Identification (I.R.).....Positive As.....<= 1 ppm Ammonium.....<= 0.02 %  
Specific optical rotation (c= 11 in HCl).....+8.9 - +9.5 ° Loss on drying.....<= 0.2 % Chloride.....16.6 - 17.1 %  
Heavy metals (Pb).....<= 10 ppm Sulphate.....<= 0.02 % Foreign amino-acids (TLC).....<= 0.2 %  
Fe.....<= 10 ppm Assay.....99.0 - 101.0 % s.s.

Code	Size	Packaging	Notes
456952	25g	Glass bottle	
456951	500g	Plastic bottle	

### Histolemon-Erba

CAS : 8028-48-6

#### Classification transport

ONU: 2052  
Transport Hazard class: 3  
Packing group III



**Danger**  
3.10/1; H304-2.6/3; H226-4.1.A/1; H400-4.1.C/1; H410-3.2/2; H315-3.4.S/1; H317  
P210-P280-P331-P403+P235-P405-P501a

#### Histolemon-Erba > RS-For histology

RS

Description.....Clear liquid Identification.....Positive Assay (GLC).....>= 95 %  
Colour.....<= 25 APHA Density at 20° C.....0.835 - 0.845

Code	Size	Packaging	Notes
454911	1l	Glass bottle	
454912	2,5l	Glass bottle	
454915	5l	Plastic tank	
454913	173kg	Metal drum	

## Histovitrex-Erba

### Classification transport

ONU: 1993  
 Transport Hazard class: 3  
 Packing group III



### Danger

3.7/1B; H360Df-2.6/3; H226-3.1.D/4; H312-3.2/2; H315-A26  
 P210-P241-P308+P313-P403+P235-P405-P501a

### Histovitrex-Erba > RS-Mounting medium in xylene for histology

RS

Description .....Clear colourless liquid Density at 20° C.....0.90 - 1.01  
 Identification.....Positive Refractive index at 20°C .....1.40 - 1.60

Code	Size	Packaging	Notes
454984	6x100ml	Glass bottle	

Contains xylene and n-dibutylphtalate.

## Holmium standard solution

### Holmium standard solution > RS-Standard for ICP-MS

RS

Code	Size	Packaging	Notes
505656	50ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505657	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505658	100ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid

### Holmium standard solution > RS-Standard for ICP

RS

Code	Size	Packaging	Notes
504261	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
504265	100ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
504263	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
504267	500ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

## Holmium oxide

Ho<sub>2</sub>O<sub>3</sub>  
 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	1g	Glass bottle	

## Holmium perchlorate in solution

### Holmium perchlorate in solution > RS-For analysis according to Ph. Eur. Chap. 2.2.25

RS

Code	Size	Packaging	Notes
506471	4x10ml + 4x10ml(blank)	Glass ampoule	For wavelength control



▶ **Holmium perchlorate in solution** > RS-For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611043101	1l	Glass bottle	Ref Ph.Eur 1043101

▶ **HPLC Gradient solvents**

Acetonitrile.....	12	Propan-2-ol.....	429	Water.....	574
Ethanol absolute anhydrous.....	185	Methanol.....	320		

▶ **HPLC Isocratic solvents**

Acetic acid glacial.....	2	Diethyl ether.....	165	Methanol.....	320
Acetone.....	9	1,4-Dioxane.....	177	Methyl acetate.....	326
Acetonitrile.....	12	Ethanol absolute anhydrous.....	185	n-Pentane.....	374
Butanol-1.....	90	Ethyl acetate.....	193	Propan-1-ol.....	428
n-Butyl chloride.....	93	n-Heptane 99%.....	227	Propan-2-ol.....	429
tert-Butylmethylether.....	94	n-Hexane.....	232	Tetrahydrofuran.....	542
Chloroform.....	121	n-Hexane 99%.....	231	Toluene.....	556
Cyclohexane.....	147	Hexane mixture of isomers.....	233	Triethylamine.....	562
1,2-Dichloroethane.....	157	Isohexane.....	277		
Dichloromethane.....	158	Isooctane.....	278		

▶ **HPLC Preparative solvents, low residue content**

Acetonitrile.....	12	Dichloromethane.....	158	Tetrahydrofuran.....	542
Acetonitrile.....	12	Dichloromethane.....	158	Toluene.....	556
tert-Butylmethylether.....	94	Ethyl acetate.....	193		
Chloroform.....	121	Propan-2-ol.....	429		

▶ **Hyamine 1622**

Synonym : Benzethonium chloride

C<sub>27</sub>H<sub>42</sub>ClNO<sub>2</sub>  
 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**  
 3.1.O/4; H302  
 P264-P270-P330-P301+P312-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	100g	Plastic bottle	

▶ **Hyamine 1622 solution 0.004M**▶ **Hyamine 1622 solution 0.004M** > RS-For analysis according to Ph. Eur. Chap. 4.2.2

RS

Code	Size	Packaging	Notes
613000901	100ml	Bottle	Ref Ph.Eur 3000900
613000900	1l	Bottle	Ref Ph.Eur 3000900

▶ **Hyamine 1622 solution 0.004M** > RS-For the detection of anionic surfactants

RS

Description.....	Clear colourless liquid	Identification.....	Positive	Assay (at production).....	0.0035 - 0.0045 Mol/l
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Code	Size	Packaging	Notes
E454972	1l	Glass bottle	

Product specifications are subject to changes.  
 Please visit our website for updates.

# HYD

## Hydrazine dihydrochloride

NH<sub>2</sub>NH<sub>2</sub>·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**

3.1.O/3; H301-3.1.D/3; H311-3.1.I/3; H331-3.6/1B; H350-4.1.A/1; H400-4.1.C/1; H410-3.4.S/1; H317-A26  
P261-P271-P280-P304+P340-P405-P501a

### 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
455056	500g	Plastic bottle	

## Hydrindantin

C<sub>18</sub>H<sub>10</sub>O<sub>6</sub>·2H<sub>2</sub>O  
Molecular Weight 358,31  
CAS : 5950-69-6  
EEC-N : 225-823-4



**Warning**

3.2/2; H315-3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

### Hydrindantin > RPE-For analysis

**RPE**

Description ..... Beige powder  
Identification ..... Positive  
Melting point ..... ≥ 240 °C  
Assay ..... ≥ 95 %

Code	Size	Packaging	Notes
455291	5g	Glass bottle	

## Hydriodic acid 57%

HI  
Molecular Weight 127,92  
CAS : 10034-85-2

**Classification transport**  
ONU: 1787  
Transport Hazard class: 8  
Packing group III



**Danger**

3.2/1B; H314  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

### Hydriodic acid 57% > RPE-For analysis-ACS

**RPE**

Description ..... colourless to yellow clear liquid  
Identification ..... Positive  
Chloride + bromide (Cl) ..... ≤ 500 ppm  
Free iodine (I) ..... ≤ 750 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	100ml	Glass bottle	
406833	1l	Glass bottle PVC coated	

Stabilized with ~1,5% of hypophosphorous acid.

## Hydrobromic acid 48%

HBr  
Molecular Weight 80,917  
CAS : 10035-10-6

**Classification transport**  
ONU: 1788  
Transport Hazard class: 8  
Packing group III



**Danger**

3.2/1B; H314-3.8/3; H335  
P260-P261-P304+P340-P305+P351+P338-P405-P501a

### Hydrobromic acid 48% > RPE-For analysis-ACS-ISO

**RPE**

Description ..... Yellow clear liquid  
Identification ..... Positive  
Organic substances ..... Conform  
Density at 20° C ..... 1.473 - 1.503  
Chloride ..... ≤ 200 ppm  
Total phosphorus ..... ≤ 2 ppm  
Iodide ..... ≤ 2 ppm  
Heavy metals (Pb) ..... ≤ 2 ppm  
Residue on ignition ..... ≤ 20 ppm  
Sulphate ..... ≤ 5 ppm  
Sulphite ..... ≤ 25 ppm  
As ..... ≤ 0.5 ppm  
Ca ..... ≤ 10 ppm  
Fe ..... ≤ 1 ppm  
Mg ..... ≤ 5 ppm  
Se ..... ≤ 0.01 ppm  
Assay (acidimetric) ..... 47.0 - 49.0 %

Code	Size	Packaging	Notes
402925	250ml	Glass bottle	
402922	1l	Glass bottle	

Hydrocarbon index determination according to EN ISO 9377-2

Standard Mixture for hydrocarbon analysis .....509	Isohexane .....277	Florisol 60-100 mesh .....207
n-Hexane .....232	Petroleum ether 35 - 60°C .....382	
n-Pentane 99% .....373	Sodium sulfate anhydrous .....501	

Hydrochloric acid 37%

HCl  
Molecular Weight 36,461  
CAS : 7647-01-0  
EEC-N : 231-595-7

**Classification transport**  
ONU: 1789  
Transport Hazard class: 8  
Packing group II

**Danger**  
3.2/1B; H314-3.8/3; H335  
P260-P261-P304+P340-P305+P351+P338-P405-P501a

► Hydrochloric acid 37% > RS-VLSI For electronic use

RS

Code	Size	Packaging	Notes
527600	2,5l	Glass bottle	

► Hydrochloric acid 37% > RS-RSE For electronic use

RS

Description.....Clear liquid	Residue on ignition .....<=2 ppm	Bi.....<=0.02 ppm	K.....<=0.1 ppm	Sn.....<=0.02 ppm
Colour .....<=10 APHA	Sulphate.....<=0.5 ppm	Ca.....<=0.5 ppm	Lj.....<=0.02 ppm	Sr.....<=0.02 ppm
Identification.....Positive	Sulphite.....<=0.5 ppm	Cd.....<=0.005 ppm	Mg.....<=0.1 ppm	Ta.....<=0.1 ppm
Assay (acidimetric).....>=36.5 %	Ag.....<=0.02 ppm	Co.....<=0.01 ppm	Mn.....<=0.01 ppm	Ti.....<=0.05 ppm
Density at 20° C .....1.183 - 1.189	Al.....<=0.05 ppm	Cr.....<=0.01 ppm	Mo.....<=0.05 ppm	Tl.....<=0.05 ppm
Ammonium.....<=1 ppm	As.....<=0.005 ppm	Cu.....<=0.005 ppm	Na.....<=0.5 ppm	V.....<=0.05 ppm
Bromide.....<=2 ppm	Au.....<=0.05 ppm	Fe.....<=0.1 ppm	Ni.....<=0.01 ppm	Zn.....<=0.02 ppm
Free chlorine.....<=0.5 ppm	B.....<=0.02 ppm	Ga.....<=0.02 ppm	Pb.....<=0.05 ppm	Zr.....<=0.05 ppm
Phosphate.....<=0.1 ppm	Ba.....<=0.05 ppm	Hg.....<=0.1 ppm	Pt.....<=0.05 ppm	
Heavy metals (Pb).....<=0.1 ppm	Be.....<=0.02 ppm	In.....<=0.02 ppm	Sb.....<=0.005 ppm	

Code	Size	Packaging	Notes
403977	1l	Glass bottle	
403971	2,5l	Glass bottle	

► Hydrochloric acid 37% > RS-MOS- For electronic use

RS

Description.....Clear liquid	Residue on ignition .....<=2 ppm	Bi.....<=0.02 ppm	K.....<=0.1 ppm	Sn.....<=0.02 ppm
Colour .....<=10 APHA	Sulphate.....<=0.5 ppm	Ca.....<=0.5 ppm	Lj.....<=0.02 ppm	Sr.....<=0.02 ppm
Identification.....Positive	Sulphite.....<=0.5 ppm	Cd.....<=0.005 ppm	Mg.....<=0.1 ppm	Ta.....<=0.1 ppm
Assay (acidimetric).....>=36.5 %	Ag.....<=0.02 ppm	Co.....<=0.01 ppm	Mn.....<=0.01 ppm	Ti.....<=0.05 ppm
Density at 20° C .....1.183 - 1.189	Al.....<=0.05 ppm	Cr.....<=0.01 ppm	Mo.....<=0.05 ppm	Tl.....<=0.05 ppm
Ammonium.....<=1 ppm	As.....<=0.005 ppm	Cu.....<=0.005 ppm	Na.....<=0.5 ppm	V.....<=0.05 ppm
Bromide.....<=2 ppm	Au.....<=0.05 ppm	Fe.....<=0.1 ppm	Ni.....<=0.01 ppm	Zn.....<=0.02 ppm
Free chlorine.....<=0.5 ppm	B.....<=0.02 ppm	Ga.....<=0.02 ppm	Pb.....<=0.05 ppm	Zr.....<=0.05 ppm
Phosphate.....<=0.1 ppm	Ba.....<=0.05 ppm	Hg.....<=0.1 ppm	Pt.....<=0.05 ppm	
Heavy metals (Pb).....<=0.1 ppm	Be.....<=0.02 ppm	In.....<=0.02 ppm	Sb.....<=0.005 ppm	

Code	Size	Packaging	Notes
403941	2,5l	Glass bottle	

► Hydrochloric acid 37% > RPE-For analysis-ISO

RPE

Assay (acidimetric).....>=36.5 %	Heavy metals (Pb).....<= 1 ppm	Cd.....<=0.005 ppm	Na.....<=0.5 ppm
Description.....Clear liquid	Residue on ignition.....<=5 ppm	Co.....<=0.01 ppm	Ni.....<=0.02 ppm
Colour .....<=10 APHA	Sulphate.....<=1 ppm	Cr.....<=0.02 ppm	Pb.....<=0.05 ppm
Identification.....Positive	Sulphite.....<=0.5 ppm	Cu.....<=0.01 ppm	Sr.....<=0.02 ppm
Density at 20° C .....1.181 - 1.189	Al.....<=0.2 ppm	Fe.....<=0.2 ppm	Ti.....<=0.05 ppm
Residue on evaporation.....<=100 ppm	As.....<=0.01 ppm	Hg.....<=0.1 ppm	Tl.....<=0.05 ppm
Ammonium.....<=1 ppm	Ba.....<=0.1 ppm	Li.....<=0.02 ppm	V.....<= 0.5 ppm
Bromide.....<=50 ppm	Be.....<=0.02 ppm	Mg.....<=0.3 ppm	Zn.....<=0.05 ppm
Free chlorine.....<=0.5 ppm	Bi.....<=0.05 ppm	Mn.....<=0.01 ppm	Zr.....<=0.05 ppm
Phosphate.....<=0.5 ppm	Ca.....<=0.5 ppm	Mo.....<=0.05 ppm	

Code	Size	Packaging	Notes
403871	1l	Glass bottle	
403876	1l	Glass bottle PVC coated	
524525	1l	Plastic bottle	
403872	2,5l	Glass bottle	
524526	2,5l	Plastic bottle	
403878	5l	Plastic bottle	
403874	25kg	Plastic tank	
403882	55kg	Plastic tank	

Product specifications are subject to changes.  
Please visit our website for updates.

## ▶ Hydrochloric acid 37% >

ERBAPharm-According to pharmacopoeia: Ph.Eur.-NF-FU-Ph.Franc.-BP-JP

Description .....	Clear colourless liquid	Free chlorine or bromide .....	Conform USP-NF	Residue on evaporation .....	<= 100 ppm	Heavy metals (Pb) .....	<= 2 ppm
Identification .....	Positive	Sulphite .....	Conform USP-NF	Residue on ignition .....	<= 80 ppm	Assay (acidimetric) .....	36.5 - 38.0 %
Appearance of solution .....	Conform Ph.Eur.	Sulphate .....	Conform USP-NF	Free chlorine .....	<= 4 ppm	As .....	<= 1 ppm
Bromide or iodide .....	Conform USP-NF	Density at 20° C .....	~ 1.18	Sulphate .....	<= 20 ppm	Hg .....	<= 0.04 ppm

Code	Size	Packaging	Notes
302621	1l	Glass bottle	
302626	2,5l	Glass bottle	
302624	10l	Plastic tank	
302623	25kg	Plastic tank	
302622	40kg	Plastic tank	
302627	55kg	Plastic tank	
302625	220kg	Combined drum	

## ▶ Hydrochloric acid 37% > RE-Pure

RE

Assay .....	36.0 - 38.5 %	Residue on ignition .....	<= 20 ppm	Free chloride (Cl) .....	<= 20 ppm
Density at 20°C .....	1.180 - 1.200	Heavy metals .....	<= 5 ppm	Iron (Fe) .....	<= 2 ppm

Code	Size	Packaging	Notes
528525	5l	Plastic tank	

## ▶ Hydrochloric acid 34-37%

HCl  
Molecular Weight 36,461  
CAS : 7647-01-0  
EEC-N : 231-595-7

### Classification transport

ONU: 1789  
Transport Hazard class: 8  
Packing group II



**Danger**

3.2/1B; H314-3.8/3; H335  
P260-P261-P304+P340-P305+P351+P338-P405-P501a

## ▶ Hydrochloric acid 34-37% > RS-Superpure-For trace analysis

RS


Assay (acidimetric) .....	34 - 37 %	Cu .....	<= 0.5 ppb	Zr .....	<= 0.1 ppb	Nb .....	<= 0.1 ppb
Description .....	Clear liquid	Fe .....	<= 1 ppb	Th .....	<= 0.1 ppb	Pr .....	<= 0.1 ppb
Identification .....	Positive	Hg .....	<= 0.1 ppb	U .....	<= 0.1 ppb	Re .....	<= 0.1 ppb
Bromide .....	<= 10 ppm	K .....	<= 1 ppb	Colour .....	<= 10 APHA	Rh .....	<= 0.1 ppb
Free chlorine .....	<= 0.5 ppm	Li .....	<= 0.1 ppb	Ce .....	<= 0.1 ppb	Rb .....	<= 0.1 ppb
Total phosphorus .....	<= 0.01 ppm	Mg .....	<= 0.5 ppb	Cs .....	<= 0.1 ppb	Ru .....	<= 0.1 ppb
Total sulphur .....	<= 0.3 ppm	Mn .....	<= 0.1 ppb	Dy .....	<= 0.1 ppb	Sm .....	<= 0.1 ppb
Ag .....	<= 1 ppb	Mo .....	<= 0.1 ppb	Er .....	<= 0.1 ppb	Sc .....	<= 0.1 ppb
Al .....	<= 1 ppb	Na .....	<= 1 ppb	Eu .....	<= 0.1 ppb	Te .....	<= 0.1 ppb
As .....	<= 0.5 ppb	Ni .....	<= 0.5 ppb	Gd .....	<= 0.1 ppb	Tb .....	<= 0.1 ppb
B .....	<= 1 ppb	Pb .....	<= 0.1 ppb	Ga .....	<= 0.1 ppb	Tl .....	<= 0.1 ppb
Ba .....	<= 0.1 ppb	Sb .....	<= 0.5 ppb	Au .....	<= 0.5 ppb	Tm .....	<= 0.1 ppb
Be .....	<= 0.1 ppb	Se .....	<= 1 ppb	Hf .....	<= 0.1 ppb	W .....	<= 0.1 ppb
Bi .....	<= 0.1 ppb	Sn .....	<= 0.5 ppb	Ho .....	<= 0.1 ppb	Yb .....	<= 0.1 ppb
Ca .....	<= 1 ppb	Sr .....	<= 0.1 ppb	In .....	<= 0.1 ppb	Y .....	<= 0.1 ppb
Cd .....	<= 0.1 ppb	Ti .....	<= 0.5 ppb	La .....	<= 0.1 ppb		
Co .....	<= 0.1 ppb	V .....	<= 0.5 ppb	Lu .....	<= 0.1 ppb		
Cr .....	<= 0.5 ppb	Zn .....	<= 1 ppb	Nd .....	<= 0.1 ppb		

Code	Size	Packaging	Notes
403915	500ml	Plastic bottle	
403916	1l	Plastic bottle	
403917	2,5l	Plastic bottle	

## Hydrochloric acid 32-35%

HCl  
Molecular Weight 36,461  
CAS : 7647-01-0

**Classification transport**  
ONU: 1789  
Transport Hazard class: 8  
Packing group II

 **Danger**  
3.2/1B; H314-3.8/3; H335  
P260-P261-P304+P340-P305+P351+P338-P405-P501a

### Hydrochloric acid 32-35% > RS-Ultrapur - For trace analysis

RS


Assay (acidimetric) .....32 - 35 %	Cr.....<= 10 ppt	U.....<= 1 ppt	Rh.....<= 10 ppt
Description .....Clear colourless liquid	Cs.....<= 10 ppt	Th.....<= 1 ppt	Rb.....<= 10 ppt
Identification.....Positive	Ou.....<= 10 ppt	Sb.....<= 20 ppt	Ru.....<= 10 ppt
Ag.....<= 10 ppt	Dy.....<= 1 ppt	Gd.....<= 1 ppt	Sm.....<= 1 ppt
Al.....<= 20 ppt	Mn.....<= 10 ppt	Ga.....<= 10 ppt	Sc.....<= 10 ppt
As.....<= 50 ppt	Eu.....<= 1 ppt	Hf.....<= 10 ppt	Te.....<= 1 ppt
Au.....<= 50 ppt	Fe.....<= 10 ppt	Ho.....<= 1 ppt	Tb.....<= 1 ppt
B.....<= 100 ppt	Ni.....<= 20 ppt	In.....<= 1 ppt	Tm.....<= 1 ppt
Ba.....<= 10 ppt	Pb.....<= 10 ppt	La.....<= 1 ppt	W.....<= 10 ppt
Be.....<= 10 ppt	Sn.....<= 20 ppt	Lj.....<= 10 ppt	Yb.....<= 1 ppt
Bi.....<= 10 ppt	Sr.....<= 10 ppt	Lu.....<= 10 ppt	Y.....<= 1 ppt
Ca.....<= 10 ppt	Tl.....<= 10 ppt	Nd.....<= 1 ppt	Zr.....<= 10 ppt
Cd.....<= 10 ppt	Ti.....<= 10 ppt	Nb.....<= 1 ppt	
Ce.....<= 10 ppt	V.....<= 10 ppt	Pr.....<= 1 ppt	
Co.....<= 10 ppt	Zn.....<= 10 ppt	Re.....<= 10 ppt	

Code	Size	Packaging	Notes
403891	500ml	Plastic bottle	

## Hydrochloric acid 32% (20°Bé)

HCl  
Molecular Weight 36,461  
CAS : 7647-01-0

**Classification transport**  
ONU: 1789  
Transport Hazard class: 8  
Packing group II

 **Danger**  
3.2/1B; H314-3.8/3; H335  
P260-P261-P304+P340-P305+P351+P338-P405-P501a

### Hydrochloric acid 32% (20°Bé) > RE-Pure

RE


Description .....Yellow clear liquid Density at 20° C.....>=1.160  
Identification.....Positive Assay (acidimetric).....>=31.0 %

Code	Size	Packaging	Notes
302664	25kg	Plastic tank	

## Hydrochloric acid 32%

HCl  
Molecular Weight 36,461  
CAS : 7647-01-0

**Classification transport**  
ONU: 1789  
Transport Hazard class: 8  
Packing group II

 **Danger**  
3.2/1B; H314-3.8/3; H335  
P260-P261-P304+P340-P305+P351+P338-P405-P501a

### Hydrochloric acid 32% > RPE-For analysis-ISO

RPE

Description .....Clear liquid	Sulphate.....<=0.8 ppm	Cr.....<=0.02 ppm	Pb.....<=0.05 ppm
Colour.....<=10 APHA	Sulphite.....<=0.5 ppm	Cu.....<=0.01 ppm	Sr.....<=0.02 ppm
Identification.....Positive	Al.....<=0.05 ppm	Fe.....<=0.1 ppm	Ti.....<=0.05 ppm
Density at 20° C.....1.159 - 1.164	As.....<=0.01 ppm	Hg.....<=0.1 ppm	Th.....<=0.05 ppm
Ammonium.....<=1 ppm	Ba.....<=0.1 ppm	Li.....<=0.02 ppm	V.....<=0.5 ppm
Bromide.....<=50 ppm	Be.....<=0.02 ppm	Mg.....<=0.3 ppm	Zn.....<=0.05 ppm
Free chlorine.....<=0.5 ppm	Bi.....<=0.05 ppm	Mn.....<=0.01 ppm	Zr.....<=0.05 ppm
Phosphate.....<=0.5 ppm	Ca.....<=0.5 ppm	Mo.....<=0.05 ppm	Assay (acidimetric).....32.0 - 33.0 %
Heavy metals (Pb).....<=1 ppm	Cd.....<=0.005 ppm	Na.....<=0.5 ppm	
Residue on ignition.....<=5 ppm	Co.....<=0.01 ppm	Ni.....<=0.02 ppm	

Code	Size	Packaging	Notes
403981	2,5l	Glass bottle	
403984	2,5l	Plastic bottle	
403982	25kg	Plastic tank	
403986	55kg	Plastic tank	
403988	220kg	Plastic drum	

Product specifications are subject to changes.  
Please visit our website for updates.

# HYD

## Hydrochloric acid 32% > RE-Pure

RE

Description.....Clear colourless or light yellow liquid Free chlorine.....<=100 ppm Sulphate.....<=200 ppm  
 Identification.....Positive Heavy metals (Pb).....<=50 ppm Fe.....<=2 ppm  
 Density at 20°C.....1.160 - 1.174 Residue on ignition.....<=0.1 % Assay.....32 - 34 %

Code	Size	Packaging	Notes
302601	1l	Glass bottle	
302602	25kg	Plastic tank	
302604	30kg	Plastic tank	

## Hydrochloric acid 26%

HCl  
 Molecular Weight 36,461  
 CAS : 7647-01-0

### Classification transport

ONU: 1789  
 Transport Hazard class: 8  
 Packing group II



### Danger

3.2/1B; H314-3.8/3; H335  
 P260-P261-P304+P340-P305+P351+P338-P405-P501a

H

## Hydrochloric acid 26% > RE-Pure

RE

HCl content.....25 - 27 %

Code	Size	Packaging	Notes
PS0769/20	2,5l	Plastic bottle	

## Hydrochloric acid 25% w/v

CAS : 7647-01-0  
 EEC-N : 231-595-7

## Hydrochloric acid 25% w/v > RS-For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611043501	1l	Bottle	Hydrochloric acid R1 Ref Ph.Eur 1043501

## Hydrochloric acid 23%

HCl  
 Molecular Weight 36,46  
 CAS : 7647-01-0

### Classification transport

ONU: 1789  
 Transport Hazard class: 8  
 Packing group II



### Warning

3.2/2; H315-3.3/2; H319-3.8/3; H335  
 P261-P271-P304+P340-P305+P351+P338-P405-P501a

## Hydrochloric acid 23% > RPE-For analysis-ISO

RPE


Assay (acidimetric).....23.0 - 24.0 % Residue on ignition.....<=5 ppm Cr.....<=0.02 ppm Pb.....<=0.05 ppm  
 Description.....Clear liquid Cu.....<=0.8 ppm Sulphate.....<=0.01 ppm Sr.....<=0.02 ppm  
 Colour.....<=10 APHA Sulphite.....<=0.5 ppm Fe.....<=0.1 ppm Ti.....<=0.05 ppm  
 Identification.....Positive Al.....<=0.05 ppm Hg.....<=0.1 ppm Tl.....<=0.05 ppm  
 Density at 20° C.....1.113 - 1.119 As.....<=0.01 ppm Li.....<=0.02 ppm V.....<=0.5 ppm  
 Ammonium.....<=1 ppm Be.....<=0.02 ppm Mg.....<=0.3 ppm Zn.....<=0.05 ppm  
 Bromide.....<=50 ppm Bi.....<=0.05 ppm Mn.....<=0.03 ppm Zr.....<=0.05 ppm  
 Free chlorine.....<=0.5 ppm Ca.....<=0.5 ppm Mo.....<=0.05 ppm  
 Phosphate.....<=0.5 ppm Cd.....<=0.005 ppm Na.....<=0.5 ppm  
 Heavy metals (Pb).....<=1 ppm Co.....<=0.01 ppm Ni.....<=0.02 ppm

Code	Size	Packaging	Notes
403901	1l	Glass bottle	
403905	2,5l	Glass bottle	
403909	25kg	Plastic tank	

## Hydrochloric acid 20%

HCl  
Molecular Weight 36,46  
CAS : 7647-01-0

**Classification transport**  
ONU: 1789  
Transport Hazard class: 8  
Packing group II

 **Warning**  
3.2/2; H315-3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

### Hydrochloric acid 20% > RE-Pure

RE


Assay .....19 - 21 %

Code	Size	Packaging	Notes
PS0751/29	5l	Plastic tank	
PS0751/49	25l	Plastic tank	

## Hydrochloric acid 12%

HCl  
Molecular Weight 36,46  
CAS : 7647-01-0

**Classification transport**  
ONU: 1789  
Transport Hazard class: 8  
Packing group II

 **Warning**  
3.2/2; H315-3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

### Hydrochloric acid 12% > RS-For analysis

RS


Assay .....11.5 - 12.5 % Clear liquid appearance .....Conform Colour .....<= J7  
Density d20/4 .....1.055 - 1.060 Identification .....Conform

Code	Size	Packaging	Notes
PS0347/22	5l	Plastic tank	
PS0347/49	25l	Plastic tank	
PS0347/66	200l	Plastic drum	

## Hydrochloric acid 10%

HCl  
Molecular Weight 36,46  
CAS : 7647-01-0

**Classification transport**  
ONU: 1789  
Transport Hazard class: 8  
Packing group II

 **Warning**  
3.2/2; H315-3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

### Hydrochloric acid 10% > ERBAPharm-According to pharmacopoeia: Ph.Eur.

ERBAPharm

Description .....Clear colourless liquid Sulphate .....<= 5 ppm Residual solvents (CPMP/ICH/283/95) .....Conform  
Identification .....Positive Heavy metals (Pb) .....<= 2 ppm Origine (BSE-TSE) .....Conform  
Appearance .....Conform Ph.Eur. Residue on evaporation .....<= 100 ppm  
Free chlorine .....<= 1 ppm Assay .....9.5 - 10.5 % (m/m)

Code	Size	Packaging	Notes
302591	10kg	Plastic tank	

### Hydrochloric acid 10% > RE-Pure

RE

Hydrochloric acid content .....9.9 - 10.1 %

Code	Size	Packaging	Notes
PS0768/41	10l	Plastic tank	

## Hydrochloric acid 8%

HCl  
Molecular Weight 36,46  
CAS : 7647-01-0

**Classification transport**  
ONU: 1789  
Transport Hazard class: 8  
Packing group III

### Hydrochloric acid 8% > RPE-For analysis

RPE

Description .....Clear colourless liquid Heavy metals (Pb) .....<= 1 ppm Fe .....<= 0.3 ppm  
Density at 20° C .....1.038 - 1.043 Sulphate .....<= 1 ppm Assay (acidimetric) .....8.0 - 9.0 %  
Ammonium .....<= 30 ppm Sulphite .....<= 1 ppm  
Free chlorine .....<= 0.5 ppm As .....<= 0.01 ppm

Code	Size	Packaging	Notes
404033	10kg	Plastic tank	
404036	55kg	Plastic tank	

# HYD

## Hydrochloric acid 5%

HCl  
Molecular Weight 36,46  
CAS : 7647-01-0

**Classification transport**  
ONU: 1789  
Transport Hazard class: 8  
Packing group III

### 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	10l	Plastic tank	

## Hydrochloric acid 1.128% (m/v)

HCl  
Molecular Weight 36,46  
CAS : 7647-01-0

**Classification transport**  
ONU: 1789  
Transport Hazard class: 8  
Packing group III

### 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	1l	Plastic bottle	

## Hydrochloric acid 6 mol/l (6N)



### Warning

3.2/2; H315-3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

### Hydrochloric acid 6 mol/l (6N) > RS-For agroalimentary analysis

RS

Description .....Clear colourless liquid Assay.....5.97 - 6.03 N

Code	Size	Packaging	Notes
502831	1l	Plastic bottle	
502832	18l	Plastic tank	

218,76 g of HCl . Ready-to-use. Content is guaranteed for standardized volumes at 20°C. Keep tightly closed.

### Hydrochloric acid 6 mol/l (6N) > RS-For analysis according to Ph. Eur. Chap. 4.2.2

RS

Code	Size	Packaging	Notes
613001500	1l	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	25l	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 Assay.....5.95 - 6.05 N

Code	Size	Packaging	Notes
528550000	5l	Plastic tank	

▶ Hydrochloric acid 5 mol/l (5N)



Warning

3.2/2; H315-3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

▶ 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	25l	Plastic tank	

H

▶ Hydrochloric acid 5 mol/l (5N) > RPE-For analysis

RPE

Assay (potentiometry).....4.995 - 5.005 N

Code	Size	Packaging	Notes
P3160015	1l	Plastic bottle	
P3160095	5l	Kubidos	

▶ Hydrochloric acid 4 mol/l (4N)



Warning

3.2/2; H315-3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

▶ 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	1l	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 (potentiometry).....3.992 - 4.008 N

Code	Size	Packaging	Notes
PS0589/15	1l	Plastic bottle	
PS0589/22	5l	Plastic tank	
PS0589/49	25l	Plastic tank	

▶ Hydrochloric acid 4 mol/l (4N) > ERBAPharm-Prepared from raw material according Ph.Eur

ERBAPharm

Clear, colourless liquid .....Conform Free chlorine.....<= 4 mg/Kg Assay.....13.0 - 14.4 % (m/m)  
 Identification A (Ph.Eur) .....Conform Sulphate (SO4-).....<=20 mg/Kg Origin (BSE-TSE).....Conform  
 Identification B (Ph.Eur) .....Conform Heavy metals.....<= 2 mg/Kg Residual solvents (CPMP/ICH/283/95) .....Conform  
 Identification C (Ph.Eur).....Conform Residue on evaporation.....<= 0.01 % (m/m)

Code	Size	Packaging	Notes
528681	1l	Plastic bottle	

# HYD

## Hydrochloric acid 3 mol/l (3N)



### Warning

3.2/2; H315-3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

### ▶ 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	1l	Plastic bottle	
502011	25l	Plastic tank	

## Hydrochloric acid 2 mol/l (2N)

### ▶ Hydrochloric acid 2 mol/l (2N) > RS-For analysis according to Ph. Eur. Chap. 4.2.2

RS

Code	Size	Packaging	Notes
613001700	1l	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

Code	Size	Packaging	Notes
404067000	1l	Plastic bottle	
404062000	5l	Kubidos	
404061000	10l	Kubidos	

72,92 g of HCl. Volumetric solution ready-to-use : 2 N. Traceable to NIST

### ▶ Hydrochloric acid 2 mol/l (2N) > ERBAPharm-Prepared from raw material according Ph.Eur

ERBAPharm

Identification (Ph.Eur) .....Conform Origine (BSE-TSE).....Conform  
Assay (Ph.Eur) .....1.9 -2.1 N Residual solvents (CPMP/ICH/283/95).....Conform

Code	Size	Packaging	Notes
528691	1l	Plastic bottle	

## Hydrochloric acid 1 mol/l (1N)

### ▶ Hydrochloric acid 1 mol/l (1N) > RS-For analysis according to Ph. Eur. Chap. 4.2.2

RS

Code	Size	Packaging	Notes
613001801	500ml	Bottle	Ref Ph.Eur 3001800
613001800	1l	Bottle	Ref Ph.Eur 3001800

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

RS

Code	Size	Packaging	Notes
617000191	1l	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	5l	Kubidos	
528581	10l	Kubidos	
528671	10l	Kubidos	
528672	200L	Polythene-metal drum	

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

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

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

Code	Size	Packaging	Notes
404097000	1l	Plastic bottle	
404092000	5l	Kubidos	
404091000	10l	Kubidos	

36,46 g of HCl. Volumetric solution ready-to-use : 1 N. Traceable to NIST

▶ Hydrochloric acid 1 mol/l (1N) > RPE-NORMEX -For analysis

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

Code	Size	Packaging	Notes
404111	Normex	Plastic ampoule	

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

Clear, colourless liquid .....Conform Identification B (Ph.Eur).....Conform Origine (BSE-TSE).....Conform  
 Identification A (Ph.Eur) .....Conform Assay (Ph.Eur) .....0.95 - 1.05 N Residual solvents (CPMP/ICH/283/95) .....Conform

Code	Size	Packaging	Notes
528583	1l	Plastic bottle	
528582	3l	Plastic tank	
528584	5l	Plastic tank	

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

▶ Hydrochloric acid 0.714 mol/l (N/1.4)

▶ Hydrochloric acid 0.714 mol/l (N/1.4) > RS-For agroalimentary analysis

Description .....Clear colourless liquid Assay .....0.710 - 0.718 N

Code	Size	Packaging	Notes
526531	10l	Kubidos	

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

▶ Hydrochloric acid 0.5 mol/l (0.5N)

▶ Hydrochloric acid 0.5 mol/l (0.5N) > RPE-For analysis

Description .....Clear colourless liquid Assay (potentiometry).....0.4995 - 0.5005 N

Code	Size	Packaging	Notes
404147000	1l	Plastic bottle	
404142000	5l	Kubidos	
404141000	10l	Kubidos	

18,23 g of HCl. Volumetric solution ready-to-use : 0,5 N. Traceable to NIST

▶ Hydrochloric acid 0.5 mol/l (0.5N) > RPE-NORMEX -For analysis

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

Code	Size	Packaging	Notes
404161	Normex	Plastic ampoule	

18,230 g HCl. Volumetric concentrated solution to prepare 1 L of solution 0.5 N

# HYD

## Hydrochloric acid 0.2 mol/l (0.2N)

### 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	1l	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

### Classification transport

ONU: 2733  
Transport Hazard class: 3  
Packing group II



### Danger

2.6/2; H225-3.3/2; H319-3.8/3; H336  
P210-P241-P304+P340-P305+P351+P338-P403+P235-P405-P501a

H

### Hydrochloric acid 0.2 mol/l (0.2N) in propanol-2 > RPE-For analysis

RPE

Description .....Clear colourless liquid Colour .....<= 10 APHA Assay .....0,195 - 0,205 N

Code	Size	Packaging	Notes
526535	1l	Glass bottle	

## Hydrochloric acid 0.1 mol/l (0.1N)

### 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	500ml	Plastic bottle	Ref Ph.Eur 3002100
613002100	1l	Plastic bottle	Ref Ph.Eur 3002100

### Hydrochloric acid 0.1 mol/l (0.1N) > RPE-For analysis-ACS-Reag.Ph.Eur.-Reag.USB

RPE

Code	Size	Packaging	Notes
528573	5l	Kubidos	
528571	10l	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 liquid Colour .....<= 10 APHA Assay .....0,095 - 0,105 N

Code	Size	Packaging	Notes
404197000	1l	Plastic bottle	
404192000	5l	Kubidos	
404191000	10l	Kubidos	
404195000	10l	Plastic tank	

### 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	Normex	Plastic ampoule	

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

Clear, colourless liquid ..... Conform Identification B (Ph.Eur) ..... Conform Origine (BSE-TSE) ..... Conform  
Identification A (Ph.Eur) ..... Conform Assay (Ph.Eur) ..... 0.095 - 0.105 N Residual solvents (CPMP/ICH/283/95) ..... Conform

Code	Size	Packaging	Notes
528661	1l	Plastic bottle	
528662	5l	Plastic tank	

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

▶ **Hydrochloric acid 0.1 mol/l (0.1N) in ethanol**

▶ **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	1l	Plastic bottle	Ref Ph.Eur 3008800

H

▶ **Hydrochloric acid 0.0714 mol/l (N/14)**

▶ **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	10l	Kubidos	

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

▶ **Hydrochloric acid 0.02 mol/l (0.02N)**

▶ **Hydrochloric acid 0.02 mol/l (0.02N) >** RPE-For analysis

RPE

Assay (potentiometry) ..... 0.01998 - 0.02002 N

Code	Size	Packaging	Notes
PS0342/15	1l	Plastic bottle	
526537	5l	Plastic tank	

▶ **Hydrochloric acid 0.01 mol/l (0.01N)**

▶ **Hydrochloric acid 0.01 mol/l (0.01N) >** RPE-For analysis

RPE

Description ..... Clear colourless liquid Assay (potentiometry) ..... 0.00998 - 0.01002 N

Code	Size	Packaging	Notes
404267	1L	Plastic bottle	

▶ **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	Normex	Plastic ampoule	

0,3646 g HCl. Volumetric concentrated solution to prepare 1 L of solution 0.01 N

# HYD

## Hydrochloric acid-d 1 mol/l

Hydrochloric acid-d 1 mol/l > RS-For NMR-min 99.8%

RS

Code	Size	Packaging	Notes
P5695	25ml	Glass bottle	

## Hydrochloric acid-d 20%

Hydrochloric acid-d 20% > RS-For NMR-min 99.95%

RS

Code	Size	Packaging	Notes
P5685	25ML	Glass bottle	

# H

## Hydrochloric acid, dilute

Hydrochloric acid, dilute > RS-For analysis according to Ph. Eur. Chap. 2.2.2

RS

Code	Size	Packaging	Notes
612202400	1l	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	1l	Bottle	Ref Ph.Eur 1043503
611043504	1l	Bottle	Hydrochloric acid, dilute R1 Ref Ph.Eur 1043504

## Hydrochloric acid, brominated



**Danger**

3.1.1/2; H330-3.2/1A; H314  
P260-P271-P304+P340-P305+P351+P338-P405-P501a

Hydrochloric acid, brominated > RS-For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611043507	1l	Bottle	Ref Ph.Eur 1043507

## Hydrofluoric acid 50%

HF  
Molecular Weight 20,006  
CAS : 7664-39-3

### Classification transport

ONU: 1790  
Transport Hazard class: 8  
Packing group I



**Danger**

3.1.0/2; H300-3.1.D/1; H310-3.1.I/1; H330-3.2/1A; H314  
P260-P302+P350-P304+P340-P305+P351+P338-P405-P501a

Hydrofluoric acid 50% > RS-VLSI For electronic use

RS

Code	Size	Packaging	Notes
527610	2,5l	Glass bottle	

RS

## Hydrofluoric acid 50% > RS-RSE For electronic use

Description.....Clear liquid	Sulphate.....<=1 ppm	Co.....<=0.01 ppm	Ni.....<=0.05 ppm
Colour.....<=10 APHA	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 KMnO4.....<=4 ppm	Cd.....<=0.01 ppm	Na.....<=0.2 ppm	Zr.....<=0.01 ppm

Code	Size	Packaging	Notes
405737	1l	Plastic bottle	
405739	5l	Plastic bottle	

Considered as toxic gas.

RS

## Hydrofluoric acid 50% > RS-MOS- For electronic use

Description.....Clear colourless liquid	Sulphate.....<=1 ppm	Co.....<=0.01 ppm	Ni.....<=0.01 ppm
Colour.....<=10 APHA	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 KMnO4.....<=4 ppm	Cd.....<=0.01 ppm	Na.....<=0.2 ppm	Zr.....<=0.01 ppm

Code	Size	Packaging	Notes
405653	1l	Plastic bottle	

Considered as toxic gas.

RPE

## Hydrofluoric acid 50% > RPE-For analysis-ACS-ISO

Description.....Clear liquid	Sulphate.....<=2 ppm	Co.....<=0.02 ppm	Ni.....<=0.05 ppm
Colour.....<=10 APHA	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
Assay (acidimetric).....49.0 - 51.0 %	Al.....<=0.05 ppm	Fe.....<=0.2 ppm	Ti.....<=0.1 ppm
Density at 20°C.....1.152 - 1.158	As.....<=0.05 ppm	K.....<=0.05 ppm	V.....<=0.05 ppm
Hydrofluosilicic acid.....<=20 ppm	Ba.....<=0.1 ppm	Li.....<=0.02 ppm	Zn.....<=0.05 ppm
Chloride.....<=1 ppm	Be.....<=0.02 ppm	Mg.....<=0.2 ppm	Zr.....<=0.1 ppm
Phosphate.....<=0.5 ppm	Bi.....<=0.1 ppm	Mn.....<=0.05 ppm	Assay (acidimetric).....49 - 51 %
Heavy metals (Pb).....<=0.5 ppm	Ca.....<=0.5 ppm	Mo.....<=0.05 ppm	
Residue on ignition.....<=5 ppm	Cd.....<=0.01 ppm	Na.....<=0.5 ppm	
Subst. reducing KMnO4.....<=4 ppm			

Code	Size	Packaging	Notes
405722	1l	Plastic bottle	
405728	5l	Plastic bottle	

Considered as toxic gas.

## Hydrofluoric acid 47-51%

HF  
Molecular Weight 20,006  
CAS : 7664-39-3

**Classification transport**  
ONU: 1790  
Transport Hazard class: 8  
Packing group I



**Danger**

3.1.O/2; H300-3.1.D/1; H310-3.1.I/1; H330-3.2/1A; H314  
P260-P302+P350-P304+P340-P305+P351+P338-P405-P501a

## Hydrofluoric acid 47-51% > RS-Ultrapur - For trace analysis

RS

Description.....Clear liquid	Co.....<= 10 ppt	Pb.....<= 10 ppt	Re.....<= 10 ppt	Sn.....<= 20 ppt
Identification.....Positive	Cu.....<= 10 ppt	Li.....<= 10 ppt	Rh.....<= 20 ppt	Ti.....<= 20 ppt
Al.....<= 20 ppt	Dy.....<= 1 ppt	Lu.....<= 1 ppt	Rb.....<= 20 ppt	W.....<= 20 ppt
Sb.....<= 20 ppt	Er.....<= 1 ppt	Mg.....<= 10 ppt	Ru.....<= 20 ppt	U.....<= 1 ppt
As.....<= 50 ppt	Eu.....<= 1 ppt	Mn.....<= 10 ppt	Sm.....<= 1 ppt	V.....<= 10 ppt
Ba.....<= 10 ppt	Gd.....<= 1 ppt	Hg.....<= 50 ppt	Sc.....<= 10 ppt	Yb.....<= 1 ppt
Be.....<= 10 ppt	Ga.....<= 10 ppt	Mo.....<= 10 ppt	Ag.....<= 10 ppt	Y.....<= 1 ppt
Bi.....<= 10 ppt	Ge.....<= 10 ppt	Nd.....<= 1 ppt	Na.....<= 10 ppt	Total sulphur.....<= 100 ppb
B.....<= 100 ppt	Au.....<= 20 ppt	Ni.....<= 20 ppt	Sr.....<= 10 ppt	Zr.....<= 10 ppt
Cd.....<= 10 ppt	Hf.....<= 10 ppt	Nb.....<= 10 ppt	Te.....<= 1 ppt	Assay.....47 - 51 %
Ca.....<= 10 ppt	Ho.....<= 1 ppt	Pd.....<= 20 ppt	Tb.....<= 1 ppt	
Ce.....<= 10 ppt	In.....<= 1 ppt	Pt.....<= 20 ppt	Tl.....<= 10 ppt	
Cs.....<= 10 ppt	Fe.....<= 10 ppt	K.....<= 10 ppt	Th.....<= 1 ppt	
Cr.....<= 10 ppt	La.....<= 10 ppt	Pr.....<= 1 ppt	Tm.....<= 1 ppt	

Code	Size	Packaging	Notes
405611	500ml	Plastic bottle	

Product specifications are subject to changes.  
Please visit our website for updates.



# HYD

## ▶ Hydrofluoric acid 47-51% > RS-Superpure-For trace analysis

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.....<= 10 APHA	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	500ml	Plastic bottle	

H

## ▶ Hydrofluoric acid 39.5%

HF  
Molecular Weight 20,006  
CAS : 7664-39-3

**Classification transport**  
ONU: 1790  
Transport Hazard class: 6.1  
Packing group I



**Danger**

3.1.O/2; H300-3.1.D/1; H310-3.1.I/1; H330-3.2/1A; H314  
P260-P302+P350-P304+P340-P305+P351+P338-P405-P501a

## ▶ Hydrofluoric acid 39.5% > RS-RSE For electronic use

RS

Description.....Clear colourless liquid	Ag.....<= 0.02 ppm	Cu.....<= 0.01 ppm	Pt.....<= 0.02 ppm
Identification.....Positive	Al.....<= 0.05 ppm	Fe.....<= 0.1 ppm	Sb.....<= 0.01 ppm
Density at 20° C.....1.127 - 1.133	As.....<= 0.03 ppm	Ga.....<= 0.02 ppm	Sn.....<= 0.02 ppm
Assay (acidimetric).....39.1 - 39.9 %	Au.....<= 0.02 ppm	In.....<= 0.02 ppm	Sr.....<= 0.02 ppm
Hydrofluosilicic acid.....<= 20 ppm	B.....<= 0.02 ppm	K.....<= 0.1 ppm	Ta.....<= 0.1 ppm
Chloride.....<= 1 ppm	Ba.....<= 0.1 ppm	Li.....<= 0.02 ppm	Ti.....<= 0.1 ppm
Phosphate.....<= 0.5 ppm	Be.....<= 0.01 ppm	Mg.....<= 0.1 ppm	Tl.....<= 0.02 ppm
Heavy metals (Pb).....<= 0.1 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 KMnO4.....<= 4 ppm	Cd.....<= 0.01 ppm	Na.....<= 0.2 ppm	Zr.....<= 0.01 ppm
Sulphate.....<= 1 ppm	Co.....<= 0.01 ppm	Ni.....<= 0.01 ppm	
Sulphite.....<= 1 ppm	Cr.....<= 0.01 ppm	Pb.....<= 0.02 ppm	

Code	Size	Packaging	Notes
405683	5l	Plastic bottle	

## ▶ 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	1l	Plastic bottle	
405765	5l	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	1l	Plastic bottle	



**Hydrofluoric acid diluted**

<p>HF CAS : 7664-39-3</p>	<p><b>Classification transport</b> ONU: 2922 Transport Hazard class: 8 Packing group II</p>	<p> <b>Danger</b> 3.1.O/3; H301-3.1.D/3; H311-3.1.I/3; H331-3.2/2; H315-3.3/2; H319 P261-P271-P304+P340-P305+P351+P338-P405-P501a</p>
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**Hydrofluoric acid diluted > RPE-For analysis** RPE

Description .....Clear colourless liquid Identification.....Positive Assay .....8.60 ÷ 8.70 %

Code	Size	Packaging	Notes
405775	250ml	Bottle	

Contains ~ 2% of hydrofluoric acid, ~ 5% hydrochloric acid.

**Hydrogen peroxide solution 40% w/v**

<p>H<sub>2</sub>O<sub>2</sub> Molecular Weight 34,015 CAS : 7722-84-1</p>	<p><b>Classification transport</b> ONU: 2014 Transport Hazard class: 5.1 Packing group II</p>	<p>  <b>Danger</b> 3.3/1; H318-3.1.O/4; H302-3.8/3; H335-3.2/2; H315 P261-P271-P304+P340-P305+P351+P338-P405-P501a</p>
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**Hydrogen peroxide solution 40% w/v > RE-Pure-Stabilized** RE

Description .....Clear colourless liquid Density at 18° C.....1.127 - 1.137  
Identification.....Positive Assay (oxidimetric) .....>=39 % m/v

Code	Size	Packaging	Notes
307701	1l	Plastic bottle	
307708	5l	Plastic bottle	
307709	60kg	Plastic tank	

**Hydrogen peroxide solution 30-32%**

<p>H<sub>2</sub>O<sub>2</sub> Molecular Weight 34,015 CAS : 7722-84-1</p>	<p><b>Classification transport</b> ONU: 2014 Transport Hazard class: 5.1 Packing group II</p>	<p>  <b>Danger</b> 3.3/1; H318-3.1.O/4; H302 P280-P264-P305+P351+P338-P330-P301+P312-P501a</p>
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**Hydrogen peroxide solution 30-32% > RS-Ultrapur - For trace analysis** RS

<p>Description .....Clear colourless liquid Identification.....Positive</p>	<p>Er .....&lt;= 1 ppt Eu .....&lt;= 1 ppt Gd .....&lt;= 1 ppt Ga .....&lt;= 10 ppt Ge .....&lt;= 10 ppt Au .....&lt;= 10 ppt Hf .....&lt;= 1 ppt Ho .....&lt;= 1 ppt In .....&lt;= 1 ppt Fe .....&lt;= 20 ppt La .....&lt;= 1 ppt Pb .....&lt;= 10 ppt Li .....&lt;= 1 ppt Lu .....&lt;= 1 ppt Mg .....&lt;= 20 ppt Mn .....&lt;= 10 ppt Hg .....&lt;= 50 ppt</p>	<p>Mo .....&lt;= 10 ppt Nd .....&lt;= 1 ppt Ni .....&lt;= 20 ppt Nb .....&lt;= 10 ppt Pd .....&lt;= 10 ppt K .....&lt;= 20 ppt Pr .....&lt;= 1 ppt Re .....&lt;= 10 ppt Rh .....&lt;= 10 ppt Rb .....&lt;= 10 ppt Ru .....&lt;= 10 ppt Sm .....&lt;= 1 ppt Sc .....&lt;= 10 ppt Se .....&lt;= 100 ppt Ag .....&lt;= 20 ppt Na .....&lt;= 50 ppt Sr .....&lt;= 10 ppt</p>	<p>Ta .....&lt;= 10 ppt Te .....&lt;= 1 ppt Tb .....&lt;= 1 ppt Tl .....&lt;= 1 ppt Th .....&lt;= 1 ppt Tm .....&lt;= 1 ppt Sn .....&lt;= 50 ppt Ti .....&lt;= 20 ppt W .....&lt;= 20 ppt U .....&lt;= 1 ppt V .....&lt;= 10 ppt Yb .....&lt;= 1 ppt Y .....&lt;= 1 ppt Zn .....&lt;= 50 ppt Zr .....&lt;= 10 ppt Assay .....30 - 32 % (p/p)</p>
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Code	Size	Packaging	Notes
412051	500ml	Plastic bottle	

Product specifications are subject to changes.  
Please visit our website for updates.

## Hydrogen peroxide solution 30%

H<sub>2</sub>O<sub>2</sub>  
Molecular Weight 34,015  
CAS : 7722-84-1

**Classification transport**  
ONU: 2014  
Transport Hazard class: 5.1  
Packing group II



**Danger**  
3.3/1; H318-3.1.0/4; H302  
P280-P264-P305+P351+P338-P330-P301+P312-P501a

### Hydrogen peroxide solution 30% > RS-VLSI For electronic use

RS

Code	Size	Packaging	Notes
527621	1l	Glass bottle	
527620	2,5l	Glass bottle	

### 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	.....<=10 APHA	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 (H <sub>2</sub> SO <sub>4</sub> )	.....<=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	1l	Plastic bottle	
412162	5l	Plastic bottle	
412163	25kg	Plastic tank	

### 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	.....<=10 APHA	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	Ta	.....<=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	Ti	.....<=0.1 ppm
Acidity (H <sub>2</sub> SO <sub>4</sub> )	.....<=20 ppm	Ba	.....<=0.1 ppm	Li	.....<=0.01 ppm	Tl	.....<=0.05 ppm
Ammonium	.....<=1 ppm	Be	.....<=0.02 ppm	Mg	.....<=0.05 ppm	V	.....<=0.05 ppm
Chloride	.....<=0.5 ppm	Bi	.....<=0.02 ppm	Mn	.....<=0.01 ppm	Zn	.....<=0.05 ppm
Phosphate	.....<=1 ppm	Ca	.....<=0.2 ppm	Mo	.....<=0.05 ppm	Zr	.....<=0.05 ppm
Heavy metals (Pb)	.....<=0.2 ppm	Cd	.....<=0.01 ppm	Na	.....<=0.2 ppm		
Nitrate	.....<=2 ppm	Co	.....<=0.01 ppm	Ni	.....<=0.01 ppm		

Code	Size	Packaging	Notes
412081	1l	Plastic bottle	

### Hydrogen peroxide solution 30% > RS-For agroalimentary analysis

RS

Aspect .....Conform Assay .....29.0 - 31.0 %

Code	Size	Packaging	Notes
502044	5l	Plastic tank	

### 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	250ml	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	.....<=10 APHA	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	.....1.11	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	175ml	Plastic bottle	
412071	250ml	Plastic bottle	
412072	1l	Plastic bottle	
412074	25kg	Plastic tank	
412076	200kg	Polythene-metal drum	

► **Hydrogen peroxide solution 30% >**  
ERBAPharm-According to pharmacopoeia: Ph.Eur.-Stabilized

Description .....Clear colourless liquid Non volat.substances.....<= 2 g/l Origin (BSE/TSE) .....Synthesis  
Identification.....Positive Organic stabilizers.....<= 500 ppm Residual solvents (CPMP/ICH/283/95) .....Conform  
Acidity.....Conform Ph.Eur. Assay (oxidimetric).....29.0 - 31.0 %

Code	Size	Packaging	Notes
307685	25kg	Plastic tank	

► **Hydrogen peroxide solution 3.5% w/v**

H<sub>2</sub>O<sub>2</sub>  
Molecular Weight 34,015  
CAS : 7722-84-1

► **Hydrogen peroxide solution 3.5% w/v > RE-Pure**

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	1l	Bottle	

► **Hydrogen peroxide solution 3%**

H<sub>2</sub>O<sub>2</sub>  
Molecular Weight 34,015  
CAS : 7722-84-1

► **Hydrogen peroxide solution 3% >**  
ERBAPharm-According to pharmacopoeia: Ph.Eur.-FU-Stabilized

Description .....Clear colourless liquid Acidity.....Conform Ph.Eur. Origin (BSE/TSE) .....Synthesis  
Identification.....Positive Non volat.substances.....Conform Ph.Eur.  
Assay (oxidimetric) .....2.5 - 3.5 % Organic stabilizers .....Conform Ph.Eur.

Code	Size	Packaging	Notes
307671	1l	Plastic bottle	
307678	50kg	Plastic tank	

► **Hydroquinone** Synonyms : 1,4-Dihydroxybenzene  
1,4-Benzenediol

<p>1,4-(OH)<sub>2</sub>C<sub>6</sub>H<sub>4</sub> Molecular Weight 110,11 CAS : 123-31-9 EEC-N : 204-617-8</p>	<p><b>Classification transport</b> ONU: 2811 Transport Hazard class: 6.1 Packing group III</p>	<p> <b>Danger</b> 3.3/1; H318-3.5/2; H341-3.6/2; H351-4.1.A/1; H400-3.1.O/4; H302-3.4.S/1; H317 P261-P280-P305+P351+P338-P308+P313-P405-P501a</p>
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► **Hydroquinone > RPE-For analysis**

Description.....White crystals Alkalinity (NH<sub>4</sub>OH).....<=17 ppm Residue on ignition.....<=200 ppm Assay (oxidimetric) .....>=99 %  
Identification.....Positive Water-insoluble matter .....<=50 ppm Resorcinol .....<=0.2 %  
Melting point .....168.2 - 171.8 ° C Heavy metals (Pb) .....<=5 ppm Total sulphur .....<=50 ppm  
Loss on drying .....<=1 % Catechol .....<=200 ppm Fe.....<=5 ppm

Code	Size	Packaging	Notes
455325	250g	Plastic bottle	

# HYD

## ▶ Hydroquinone > RE-Pure

RE

Description.....White crystals Heavy metals (Pb).....<= 10 ppm Assay (oxidimetric).....>= 99 %  
 Identification (I.R.).....Conform Resorcinol.....<= 0.1 %  
 Melting point.....170 - 175 °C Fe.....<= 10 ppm

Code	Size	Packaging	Notes
348126	500g	Plastic bottle	
348129	5kg	Plastic bottle	
348124	25kg	Fibre drum	

## ▶ Hydroxylamine sulphate

Synonym : Hydroxylammonium sulfate

(NH<sub>2</sub>OH)<sub>2</sub>.H<sub>2</sub>SO<sub>4</sub>  
 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

3.6/2; H351-3.9/2; H373-2.16/1; H290-4.1.A/1; H400-3.1.O/4; H302-3.1.D/4; H312-3.4.S/1; H317-3.2/2;  
 H315-3.3/2; H319  
 P260-P261-P280-P305+P351+P338-P405-P501a

H

## ▶ Hydroxylamine sulphate > RPE-For analysis

RPE

Description.....White crystals Water-insoluble matter.....<=50 ppm Fe.....<=5 ppm  
 Identification.....Positive Heavy metals (Pb).....<=10 ppm Assay (oxidimetric).....>=99 %  
 Ammonium.....<=0.1 % Residue on ignition.....<=200 ppm  
 Chloride.....<=10 ppm As.....<=5 ppm

Code	Size	Packaging	Notes
455525	250g	Plastic bottle	
455527	1kg	Plastic bottle	
455523	25kg	Fibre drum	

## ▶ 8-Hydroxyquinoline

Synonyms : Oxine  
 8-Quinolinol

HOc<sub>8</sub>H<sub>3</sub>N:CHCH:CH  
 Molecular Weight 145,16  
 CAS : 148-24-3  
 EEC-N : 205-711-1



### Warning

3.1.O/4; H302  
 P264-P270-P330-P301+P312-P501a

## ▶ 8-Hydroxyquinoline > RPE-For analysis-ACS

RPE

Description.....White powder Melting point.....72.5 - 74.0 °C Sulphate.....<=200 ppm  
 Identification.....Positive Alcohol-insolub. matter.....<=500 ppm  
 Suitable for Mg determ.....Conform Residue on ignition.....<=500 ppm

Code	Size	Packaging	Notes
467353	50g	Glass bottle	
467355	250g	Plastic bottle	

For the determination of trace metals.

## ▶ p-Hydroxybenzaldehyde

HOc<sub>6</sub>H<sub>4</sub>CHO  
 Molecular Weight 122,12  
 CAS : 123-08-0  
 EEC-N : 204-599-1

## ▶ p-Hydroxybenzaldehyde > RE-Pure

RE


Description.....White crystalline powder Melting point.....114 - 117 °C  
 Identification.....Positive Assay (acidimetric).....>=98 %

Code	Size	Packaging	Notes
467254	100g	Glass bottle	

## Hypophosphorous acid 50%

H<sub>3</sub>PO<sub>2</sub>  
Molecular Weight 66  
CAS : 6303-21-5  
EEC-N : 228-601-5

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

 **Danger**  
3.2/1B; H314  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

### Hypophosphorous acid 50% > RPE-For analysis

RPE

Description .....Yellow colourless liquid  
Identification.....Positive  
Density at 20° C.....1.203 - 1.209  
Phosphoric-phosphorus ac.....<=1 %  
Heavy metals (Pb).....<=10 ppm  
Total sulphur.....<=500 ppm  
Ba.....<=50 ppm  
Ca.....<=50 ppm  
Fe.....<=50 ppm  
Assay (acidimetric).....>=49.5 %

Code	Size	Packaging	Notes
406961	100ml	Glass bottle	
406962	1l	Glass bottle	
406964	30kg	Plastic tank	

H

## Idrimeter Mc - Non-instrumented colorimetric kits

### Idrimeter Mc - Non-instrumented colorimetric kits > RS-For water analysis

RS

Code	Size	Packaging	Notes
REA080006050	kit	Box	Parameter : Ammonia
REA080006075	kit	Box	Parameter : Chlorides
REA080006065	kit	Box	Parameter : Chlorine DPD
REA080006060	kit	Box	Parameter : Chlorine (o-tolidine)
REA080006070	kit	Box	Parameter : Chlorine and pH (DPD Phenol red)
REA080006155	kit	Box	Parameter : Chlorine dioxide
REA080006080	kit	Box	Parameter : Chromates
REA080006130	kit	Box	Parameter : Copper
REA080006055	kit	Box	Parameter : Cyanides
REA080006160	kit	Box	Parameter : DEHA
REA080006100	kit	Box	Parameter : Hydrazine
REA080006085	kit	Box	Parameter : Iron
REA080006105	kit	Box	Parameter : Manganese
REA080006110	kit	Box	Parameter : Nickel
REA080006115	kit	Box	Parameter : Nitrates
REA080006120	kit	Box	Parameter : Nitrites
REA080006125	kit	Box	Parameter : pH
REA080006095	kit	Box	Parameter : Phosphates (high)
REA080006090	kit	Box	Parameter : Phosphates (low)
REA080006165	kit	Box	Parameter : Residual hardness
REA080006135	kit	Box	Parameter : Silica
REA080006140	kit	Box	Parameter : Sulfates
REA080006145	kit	Box	Parameter : Sulfides
REA080006150	kit	Box	Parameter : Zinc

## Idrimeter Mv - Non-instrumented volumetric kits

### Idrimeter Mv - Non-instrumented volumetric kits > RS-For water analysis

RS

Code	Size	Packaging	Notes
REA080006000	kit	Box	Parameter : Acidity
REA080006005	kit	Box	Parameter : Alkalinity
REA080006010	kit	Box	Parameter : Calcium
REA080006015	kit	Box	Parameter : Chlorides
REA080006025	kit	Box	Parameter : Dissolved oxygen
REA080006020	kit	Box	Parameter : Hardness
REA080006030	kit	Box	Parameter : Sulfites

Product specifications are subject to changes.  
Please visit our website for updates.

## Idrimeter Sm - Instrumented single-test kits &gt; RS-For water analysis

RS

Code	Size	Packaging	Notes
REA080005354	kit	Box	Parameter : Ammonia (Indophenol blue)
REA080005352	kit	Box	Parameter : Ammonia (Nessler)
REA080005388	kit	Box	Parameter : Anionic surfactants
REA080005358	kit	Box	Parameter : Cadmium
REA080005390	kit	Box	Parameter : Cationic surfactants
REA080005360	kit	Box	Parameter : Chlorides
REA080005362	kit	Box	Parameter : Chromates
REA080005328	kit	Box	Parameter : COD 1000-15001
REA080005326	kit	Box	Parameter : COD 100-1501
REA080005325	kit	Box	Parameter : COD 10-161
REA080005384	kit	Box	Parameter : Copper
REA080005370	kit	Box	Parameter : Fluorides
REA080005368	kit	Box	Parameter : Iron (high)
REA080005366	kit	Box	Parameter : Iron (low)
REA080005376	kit	Box	Parameter : Manganese
REA080005378	kit	Box	Parameter : Nickel
REA080005380	kit	Box	Parameter : Nitrates (low)
REA080005382	kit	Box	Parameter : Nitrites
REA080005356	kit	Box	Parameter : Nitrogen (total)
REA080005364	kit	Box	Parameter : Phenols
REA080005374	kit	Box	Parameter : Phosphates (total high)
REA080005372	kit	Box	Parameter : Phosphates (total low)
REA080005398	kit	Box	Parameter : Sulfates
REA080005392	kit	Box	Parameter : Zinc

## Idrimeter St - Instrumented multi-test kits

## Idrimeter St - Instrumented multi-test kits &gt; RS-For water analysis

RS

Code	Size	Packaging	Notes
REA080005400	kit	Box	Parameter : Aluminium
REA080005406	kit	Box	Parameter : Ammonia (Blue Indophenol)
REA080005405	kit	Box	Parameter : Ammonia (Nessler)
REA080005410	kit	Box	Parameter : Boron
REA080005412	kit	Box	Parameter : Calcium
REA080005430	kit	Box	Parameter : Chlorides
REA080005425	kit	Box	Parameter : Chlorine DPD
REA080005420	kit	Box	Parameter : Chlorine (o-tolidine)
REA080005435	kit	Box	Parameter : Chromates
REA080005490	kit	Box	Parameter : Copper
REA080005415	kit	Box	Parameter : Cyanides
REA080005465	kit	Box	Parameter : Hydrazine
REA080005450	kit	Box	Parameter : Iron (high)
REA080005445	kit	Box	Parameter : Iron (low)
REA080005470	kit	Box	Parameter : Manganese
REA080005475	kit	Box	Parameter : Nickel
REA080005480	kit	Box	Parameter : Nitrates
REA080005485	kit	Box	Parameter : Nitrites
REA080005440	kit	Box	Parameter : Phenols
REA080005460	kit	Box	Parameter : Phosphates (high)
REA080005455	kit	Box	Parameter : Phosphates (low)
REA080005495	kit	Box	Parameter : Silica
REA080005498	kit	Box	Parameter : Sulfates
REA080005500	kit	Box	Parameter : Sulfides
REA080005505	kit	Box	Parameter : Zinc

## Idrimer Erba Indicator C

## Idrimer Erba Indicator C &gt; RPE-For analysis

RPE

Description.....Violet granular powder Identification.....Positive

Code	Size	Packaging	Notes
455271	10g	Plastic bottle	
455274	100g	Plastic bottle	

For determining the water hardness. Idrimer indicator.

## Imidazole

C<sub>3</sub>H<sub>4</sub>N<sub>2</sub>  
 Molecular Weight 68,08  
 CAS : 288-32-4  
 EEC-N : 206-019-2

## Classification transport

ONU: 1759  
 Transport Hazard class: 8  
 Packing group III



## Danger

3.1.O/3; H301-3.2/1B; H314  
 P260-P280-P304+P340-P305+P351+P338-P405-P501a

## Imidazole &gt; RS-For microanalysis

RS

Description.....White crystals C.....>=52.93 % N.....>=41.15 %  
 Identification.....Positive H.....>=5.92 %

Code	Size	Packaging	Notes
445551	2g	Glass bottle	

## Immersion oil

## Classification transport

ONU: 3082  
 Transport Hazard class: 9  
 Packing group III



## Warning

3.1.O/4; H302-4.1.C/2; H411  
 P273-P264-P270-P330-P301+P312-P501a

## Immersion oil &gt; RS-For microscopy

RS

Description.....Clear liquid Identification.....Positive Density at 20° C.....>=1.0

Code	Size	Packaging	Notes
466782	100ml	Glass bottle	
466783	1l	Glass bottle	

contains benzylbenzoate

## Indicator for ammoniacal nitrogen solution

## Classification transport

ONU: 1993  
 Transport Hazard class: 3  
 Packing group III



## Warning

2.6/3; H226  
 P210-P241-P243-P303+P361+P353-P403+P235-P501a

## Indicator for ammoniacal nitrogen solution &gt; RPE-For analysis

RPE

Description.....Dark green liquid Identification.....Positive pH range.....4.4 - 6.0

Code	Size	Packaging	Notes
E455651	250ml	Glass bottle	

Acid-base indicator (pH 4,4÷6,0).

## Indicator for iodometry

CAS : 9005-25-8  
EEC-N : 232-679-6

## Indicator for iodometry &gt; RPE-Powder-For analysis

RPE

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

Code	Size	Packaging	Notes
455621	250g	Plastic bottle	

## Indicator papers in rolls

## Indicator papers in rolls &gt; RS-For pHmetry

RS

Code	Size	Packaging	Notes
435131000	1 roll		Trichromic scale, pH range 1.0 - 11.0, Sensitivity 1,0 pH
435140000	1 roll		Monochromatic scale, pH range 1.0 - 11.0, Sensitivity 1,0 pH
435150000	1 roll		Monochromatic scale, pH range 1.0 - 14.0, Sensitivity 1,0/2,0 pH
435161000	1 roll		Monochromatic scale, pH range 3.8 - 5.8, Sensitivity 0,2/0,3 pH
435171000	1 roll		Monochromatic scale, pH range 5.4 - 7.0, Sensitivity 0,2/0,3 pH
435421000	1 roll		Monochromatic scale, pH range 0.5 - 5.5, Sensitivity 0,5 pH
435431000	1 roll		Monochromatic scale, pH range 4.0 - 7.0, Sensitivity 0,3 pH
435441000	1 roll		Monochromatic scale, pH range 6.4 - 8.0, Sensitivity 0,2 pH
435451000	1 roll		Monochromatic scale, pH range 7.2 - 9.7, Sensitivity 0,3 pH
435461000	1 roll		Monochromatic scale, pH range 8.0 - 10.0, Sensitivity 0,2/0,3 pH
435471000	1 roll		Monochromatic scale, pH range 9.0 - 13.0, Sensitivity 0,5 pH
435481000	1 roll		Monochromatic scale, pH range 12,0 - 14,0 Sensitivity 0,5 pH
435511000	1 roll		Monochromatic scale, pH range 5.5 - 9.0, Sensitivity 0,5 pH

Roll dispenser 5 m by 10 mm.

## Indicator papers in stripes

## Indicator papers in stripes &gt; RS-High sensitivity-Integrated chromatic scale

RS

Code	Size	Packaging	Notes
435491000	100 stripes	Tube	pH range 1.0 - 12.0, Sensitivity 1,0
435492000	100 stripes	Tube	pH range 0.0 - 1.8, Sensitivity 0,2/0,3
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

Strip 11 x 100 mm

## Indicator papers in stripes &gt; RS-Indelible-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

Stick 6 x 85 mm



## Indicator papers special in rolls

## Indicator papers special in rolls &gt; RS-For pHmetry

RS

Code	Size	Packaging	Notes
434980000	1 roll		Paper starch iodide, Color change : White → Blue-purple
435060000	1 roll		Paper phenolphthalein, Color change : white → red, change pH 8.3→10.0
435180000	1 roll		Paper lead acetate, Color change : White → Brown-Black
435220000	1 roll		Congo red paper, Color change : red → Blue, Change pH 5.0→3.0

Roll dispenser 5 m by 7 mm.

## Indicator universal pH 0-5 hydroalcoholic solution

## Classification transport

ONU: 1170  
 Transport Hazard class: 3  
 Packing group III



## Warning

2.6/3; H226  
 P210-P241-P243-P303+P361+P353-P403+P235-P501a

## Indicator universal pH 0-5 hydroalcoholic solution &gt; RPE-For analysis

RPE

Description.....Dark green liquid Identification.....Positive Functionality.....Conform

Code	Size	Packaging	Notes
E455661	25ml	Glass bottle	
E455662	500ml	Glass bottle	

With chromatic scale

## Indicator universal pH 1-11 hydroalcoholic solution

## Classification transport

ONU: 1993  
 Transport Hazard class: 3  
 Packing group III



## Warning

2.6/3; H226  
 P210-P241-P243-P303+P361+P353-P403+P235-P501a

## Indicator universal pH 1-11 hydroalcoholic solution &gt; RPE-For analysis

RPE

Description.....Dark green liquid Identification.....Positive Functionality.....Conform

Code	Size	Packaging	Notes
E455702	25ml	Glass bottle	
E455706	500ml	Glass bottle	

With chromatic scale

## Indicator universal pH 1-11 water solution

## Indicator universal pH 1-11 water solution &gt; RPE-For analysis

RPE

Description.....Dark green liquid Identification.....Positive Functionality.....Conform

Code	Size	Packaging	Notes
E455711	25ml	Glass bottle	
E455712	500ml	Glass bottle	

With chromatic scale

## Indicator universal pH 4-10 hydroalcoholic solution

## Classification transport

ONU: 1170  
 Transport Hazard class: 3  
 Packing group II



## Danger

2.6/2; H225-3.6/1B; H350-A26  
 P210-P241-P308+P313-P403+P235-P405-P501a

## Indicator universal pH 4-10 hydroalcoholic solution &gt; RPE-For analysis

RPE

Description .....Dark green liquid Identification.....Positive Functionality.....Conform

Code	Size	Packaging	Notes
E455671	25ml	Glass bottle	

With chromatic scale

## Indicator universal pH 9-13 hydroalcoholic solution

## Classification transport

ONU: 1170  
 Transport Hazard class: 3  
 Packing group II



## Danger

2.6/2; H225  
 P210-P241-P243-P303+P361+P353-P403+P235-P501a

## Indicator universal pH 9-13 hydroalcoholic solution &gt; RPE-For analysis

RPE

Description .....Yellow liquid Identification.....Positive Functionality.....Conform

Code	Size	Packaging	Notes
E455641	25ml	Glass bottle	
E455642	500ml	Glass bottle	

With chromatic scale

## Indigo carmine dried

$C_{16}H_8N_2Na_2O_8S_2$   
 Molecular Weight 466,36  
 CAS : 860-22-0  
 EEC-N : 212-728-8

## Indigo carmine dried &gt; RPE-For analysis-C.I. 73015

RPE

Description .....Powder blue violet Colour change.....( blue - yellow)  
 Identification.....Positive Assay.....>= 85 %

Code	Size	Packaging	Notes
434932	25g	Glass bottle	

Dye for microscopy (bacteriology histology). Indicator acid - base (pH 11.6 ÷ 14).

## Indigo carmine solution

## Indigo carmine solution &gt; RS-For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611045601	1l	Bottle	Ref Ph.Eur 1045601

## Indigo solution 1,5% in sulphuric acid

C<sub>16</sub>H<sub>10</sub>N<sub>2</sub>O<sub>2</sub>  
CAS : 482-89-3

**Classification transport**  
ONU: 2796  
Transport Hazard class: 8  
Packing group II



**Danger**  
3.2/1A; H314  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

## Indigo solution 1,5% in sulphuric acid &gt; RPE-For analysis

RPE

Description .....Blue liquid Identification.....Positive Density at 15° C.....>=1.057

Code	Size	Packaging	Notes
E455601	500ml	Glass bottle	

## Indium standard solution

## Indium standard solution &gt; RS-Standard for ICP-MS

RS

Code	Size	Packaging	Notes
505661	50ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505662	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505665	100ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid

## Indium standard solution &gt; RS-Standard for ICP

RS

Code	Size	Packaging	Notes
503651	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503655	100ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
503653	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503657	500ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

## Indole

Synonym : 1H-Benzo[b]pyrrole

C<sub>8</sub>H<sub>7</sub>NHCH:CH  
Molecular Weight 117,15  
CAS : 120-72-9  
EEC-N : 204-420-7



**Danger**  
3.1.D/3; H311-3.1.O/4; H302  
P280-P312-P330-P363-P405-P501a

## Indole &gt; 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	10g	Glass bottle	

## Indophenol blue

C<sub>18</sub>H<sub>16</sub>N<sub>2</sub>O  
Molecular Weight 276,34  
CAS : 132-31-0  
EEC-N : 205-056-1



**Warning**  
3.2/2; H315-3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

## Indophenol blue &gt; RS-For microscopy-C.I. 49700

RS

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

Code	Size	Packaging	Notes
428881	1g	Glass bottle	

# INO

## Inositol

Synonyms : 1,2,3,4,5,6-Hexahydroxycyclohexane  
meso-Inositol

CHOH(CHOH)<sub>4</sub>CHOH  
Molecular Weight 180,16  
CAS : 87-89-8  
EEC-N : 201-781-2

### Inositol > RPE-For analysis

RPE

Description .....White crystalline powder pH sol. 5% at 25° C .....5.0 - 7.0 Residue on ignition.....<=0.1 % Fe.....<=5 ppm  
Identification.....Positive Loss on drying .....<=0.2 % Sulphate.....<=50 ppm Assay (gravimetric) .....>=99 %  
Albumin.....Conform Chloride .....<=50 ppm Red.ing sugars(Glucose) .....<=0.1 %  
Dextrine.....Conform Phosphate .....<=10 ppm Ba .....<=150 ppm  
Melting point .....221.6 - 226.4 ° C Heavy metals (Pb) .....<=25 ppm Ca .....<=50 ppm

Code	Size	Packaging	Notes
455853	50g	Glass bottle	

### Inositol > RE-Pure

RE

Description .....White powder Sulphated ash.....<=0.1 % Sulphate .....<=150 ppm  
Identification.....Positive Chloride .....<=100 ppm Fe.....<=10 ppm  
Loss on drying .....<=0.2 % Heavy metals (Pb) .....<=40 ppm

Code	Size	Packaging	Notes
348354	100g	Plastic bottle	

## Inulin

(C<sub>6</sub>H<sub>10</sub>O<sub>5</sub>)<sub>n</sub>.nH<sub>2</sub>O  
CAS : 9005-80-5  
EEC-N : 232-684-3

### Inulin > RPE-For analysis

RPE

Description .....White crystalline powder Loss on drying .....<=10 % Heavy metals (Pb) .....<=10 ppm  
Identification.....Positive Residue on ignition .....<=0.1 % Fe.....<=10 ppm  
Specific optical rotation on dry .....-32 - -40 ° Chloride .....<=50 ppm  
(c= 2 in water) Sulphate .....<=50 ppm

Code	Size	Packaging	Notes
455901	10g	Glass bottle	

## Iodide standard solution

### Iodide standard solution > RS-Standard for ionic chromatography

RS

Code	Size	Packaging	Notes
503260	50ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503261	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503262	250ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503263	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Water

## Iodine resublimed

I<sub>2</sub>  
Molecular Weight 253,8  
CAS : 7553-56-2  
EEC-N : 231-442-4

**Classification transport**  
ONU: 1759  
Transport Hazard class: 8  
Packing group II

**Warning**  
4.1.A/1; H400-3.1.D/4; H312-3.1.I/4; H332  
P261-P271-P280-P304+P340-P312-P501a

### Iodine resublimed > RPE-For analysis

RPE

Description .....Grey-violet crystals Residue on evaporation.....<=100 ppm Assay (oxidimetric) .....>=99.9 %  
Identification.....Positive Chlorine-Bromine.....<=100 ppm

Code	Size	Packaging	Notes
455959	100g	Glass bottle	
455955	250g	Glass bottle	
455957	1kg	Glass bottle	
455953	2,5kg	Glass bottle	
455954	25kg	Metal bucket	

## Iodine

I<sub>2</sub>  
Molecular Weight 253,8  
CAS : 7553-56-2  
EEC-N : 231-442-4

**Classification transport**  
ONU: 1759  
Transport Hazard class: 8  
Packing group II

**Warning**  
4.1.A/1; H400-3.1.D/4; H312-3.1.I/4; H332  
P261-P271-P280-P304+P340-P312-P501a

### Iodine > ERBAPharm-According to pharmacopoeia: Ph.Eur.-USP-FU-Ph.Franc.-BP-DAB

**ERBAPharm**

Description.....Grey-violet crystals Chloride + bromide (Cl).....<= 0.025 % Assay (iodometric) .....99.8 - 100.5 %  
Identification.....Positive Residue on ignition .....<= 0.05 %

Code	Size	Packaging	Notes
348454	100g	Glass bottle	
348455	250g	Glass bottle	
348457	1kg	Glass bottle	
348451	5kg	Metallic can	

## Iodine 0.5 mol/l (1N)

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

**Danger**  
3.4.R/1; H334-3.8/3; H335-3.2/2; H315-3.3/2; H319-3.4.S/1; H317  
P261-P304+P340-P305+P351+P338-P342+P311-P405-P501a

### Iodine 0.5 mol/l (1N) > RS-For analysis according to Ph. Eur. Chap. 4.2.2

**RS**

Code	Size	Packaging	Notes
613009400	1l	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

Code	Size	Packaging	Notes
456135000	500ml	Glass bottle	
456137000	1l	Glass bottle	

126,9 g of I<sub>2</sub>. Volumetric solution ready-to-use : 1 N. Traceable to NIST

## Iodine 0.05 mol/l (0.1N)

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

**Danger**  
3.4.R/1; H334-3.4.S/1; H317  
P261-P280-P285-P342+P311-P363-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	1l	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

Code	Size	Packaging	Notes
456036000	500ml	Glass bottle	
456037000	1l	Glass bottle	

12,69 g of I<sub>2</sub>. Volumetric solution ready-to-use : 0,1 N

# IOD

## ▶ 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	Normex	Glass ampoule	

12,69 g of I<sub>2</sub>. Volumetric concentrated solution to prepare 1 L of solution 0.1 N

## Iodine 0.01 mol/l (0.02N)

### Classification transport

ONU: 1760

Transport Hazard class: 8

Packing group III



Danger

3.4.R/1; H334-3.8/3; H335-3.2/2; H315-3.3/2; H319-3.4.S/1; H317  
P261-P304+P340-P305+P351+P338-P342+P311-P405-P501a

## ▶ Iodine 0.01 mol/l (0.02N) > RS-For analysis according to Ph. Eur. Chap. 4.2.2

RS

Code	Size	Packaging	Notes
613002900	1l	Bottle	Ref Ph.Eur 3002900

Storage: protected from light

## Iodine 0.02365 mol/l (0.0473N)



Danger

3.4.R/1; H334-3.4.S/1; H317  
P261-P280-P285-P342+P311-P363-P501a

## ▶ Iodine 0.02365 mol/l (0.0473N) > RPE-For analysis

RPE

Description.....Brown clear liquid Assay (potentiometry).....0.0468 - 0.0478 N

Code	Size	Packaging	Notes
456205	2,5l	Glass bottle	

## Iodine 0.005 mol/l (0.01N)

### Classification transport

ONU: 1760

Transport Hazard class: 8

Packing group II



Warning

4.1.A/1; H400  
P273-P391-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	Normex	Glass ampoule	

1,269 g of I<sub>2</sub>. Volumetric concentrated solution to prepare 1 L of solution 0.01 N

## Iodine 10ppm

## ▶ Iodine 10ppm > RS-For analysis according to Ph. Eur. Chap. 4.1.2

RS

Code	Size	Packaging	Notes
615003809	100ml	Bottle	Concentrated solution : to dilute according to Ref Ph.Eur 5003800

## Iodine bromide solution

## Classification transport

ONU: 2734  
 Transport Hazard class: 8  
 Packing group II



## Danger

3.2/1A; H314-2.6/3; H226  
 P210-P241-P304+P340-P305+P351+P338-P403+P235-P405-P501a

## Iodine bromide solution &gt; RS-For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611045901	1l	Bottle	Ref Ph.Eur 1045901

Storage: protected from light

## Iodopentoxide

Synonyms : Iodic anhydride  
Diiodine pentoxide

I<sub>2</sub>O<sub>5</sub>  
 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

2.14/2; H272  
 P210-P221-P280-P220-P370+P378a-P501a

## Iodopentoxide &gt; RPE-For analysis

RPE

Description .....White crystalline powder Total nitrogen .....<=50 ppm Water-insoluble matter .....<=100 ppm Sulphate.....<=50 ppm  
 Identification.....Positive Ash .....<=100 ppm Iodide .....<=10 ppm Fe.....<=10 ppm  
 Loss on drying .....<=1 % Chloride + bromide (Cl) .....<=100 ppm Heavy metals (Pb) .....<=10 ppm Assay (oxidimetric) .....99 - 100 %

Code	Size	Packaging	Notes
421904	100g	Glass bottle	

## Iodoform

Synonym : Triiodomethane

CHI<sub>3</sub>  
 Molecular Weight 393,73  
 CAS : 75-47-8  
 EEC-N : 200-874-5



## Warning

3.1.O/4; H302-3.1.D/4; H312-3.1.I/4; H332  
 P261-P271-P280-P304+P340-P312-P501a

## Iodoform &gt; RE-Pure

RE

Description .....Yellow crystalline powder Sulphated ash.....<= 0.2 % Acidity or alkalinity .....Conform  
 Identification.....Positive Assay (argentimetric).....>= 99,0 % Chloride .....<= 50 ppm  
 Loss on drying .....<= 1.0 % Appearance of solution .....Conform

Code	Size	Packaging	Notes
348554	100g	Glass bottle	
348557	1kg	Plastic bottle	

## Iodomethane ► Methyl iodide

## Iodoplatinate reagent

## Iodoplatinate reagent &gt; RS-For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611046309	200ml	Bottle	Ref Ph.Eur 1046300
611046300	1l	Bottle	Ref Ph.Eur 1046300

Storage: protected from light

## Iridium standard solution

## Iridium standard solution &gt; RS-Standard for ICP-MS

RS

Code	Size	Packaging	Notes
505671	50ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
505672	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
505675	100ml	Plastic bottle	conc. 100 ppm Matrix : Hydrochloric acid

## Iron standard solution

## Iron standard solution &gt; RS-For analysis according to Ph. Eur. Chap. 4.1.2

RS

Code	Size	Packaging	Notes
615001601	100ml	Bottle	A 10 ppm solution : to dilute according to Ref Ph.Eur 5001601
615001602	100ml	Bottle	A 8 ppm solution : to dilute according to Ref Ph.Eur 5001602
615001603	100ml	Bottle	A 2 ppm solution : to dilute according to Ref Ph.Eur 5001603
615001605	100ml	Bottle	A 0.1 % solution Ref Ph.Eur 5001605
615001606	100ml	Bottle	A 250 ppm solution : to dilute according to Ref Ph.Eur 5001606
615001609	100ml	Bottle	A 20 ppm solution : to dilute according to Ref Ph.Eur 5001600

## Iron standard solution &gt; RS-Standard for ICP-MS

RS

Code	Size	Packaging	Notes
505611	50ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505612	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505615	100ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid

## Iron standard solution &gt; RS-Standard for ICP

RS

Code	Size	Packaging	Notes
503581	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503585	100ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
503583	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503587	500ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

## Iron standard solution &gt; RS-Standard for AAS

RS

Description.....Yellow clear liquid Identification.....Positive Titration factor.....0.998 - 1.002

Code	Size	Packaging	Notes
E497515	100ml	Glass bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
E497511	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid

## Iron standard solution &gt; RS-NORMEX- Concentrated solution for AAS

RS


Description.....Yellow clear liquid Identification.....Positive Titration factor.....0.995 - 1.005

Code	Size	Packaging	Notes
451311	Normex	Plastic ampoule	conc. 1.000 ppm Matrix : Nitric acid

## Iron, powder

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**  
2.7/2; H228  
P210-P241-P280-P240-P370+P378a

## Iron, powder &gt; RPE-For analysis

RPE

Description.....Grey powder Identification.....Positive Assay.....&gt;=97 %


Code	Size	Packaging	Notes
451377	1kg	Plastic bottle	
451373	25kg	Fibre drum	



## Iron, reduced by hydrogen

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**  
2.7/2; H228  
P210-P241-P280-P240-P370+P378a

### Iron, reduced by hydrogen > RPE-For analysis


RPE

Description ..... Grey powder Nitrogen compounds (N) ..... <=50 ppm Assay ..... >=95 %  
Identification ..... Positive H2SO4-insoluble matter ..... <=0,5 %  
Ferric ion ..... Conform Water solubility ..... <=0.1 %

Code	Size	Packaging	Notes
451395	250g	Plastic bottle	
451397	1kg	Plastic bottle	

## Iron (II) ammonium sulfate hexahydrate

Fe(NH<sub>4</sub>)<sub>2</sub>(SO<sub>4</sub>)<sub>2</sub>·6H<sub>2</sub>O  
Molecular Weight 392,14  
CAS : 7783-85-9  
EEC-N : 233-151-8

 **Warning**  
3.2/2; H315-3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

### Iron (II) ammonium sulfate hexahydrate > RPE-For analysis-ACS

RPE

Description ..... Green - azure crystals Ferric salt ..... <= 100 ppm Assay (oxidimetric) ..... 98.5 - 101.5 % Na ..... <= 0.02 %  
Identification ..... Positive Cu ..... <= 30 ppm Water-insoluble matter ..... <= 100 ppm  
Phosphate ..... <= 30 ppm Mn ..... <= 100 ppm Mg ..... <= 20 ppm  
Ca ..... <= 50 ppm Zn ..... <= 30 ppm K ..... <= 20 ppm

Code	Size	Packaging	Notes
451451	500g	Plastic bottle	
451457	1kg	Plastic bottle	
451452	25kg	Drum	
451454	50kg	Plastic bucket	

### Iron (II) ammonium sulfate hexahydrate > RE-Pure

RE



Description ..... Green - azure crystals Ferric ion ..... <= 0.01 %  
Identification ..... Positive Assay (oxidimetric) ..... >= 98 %

Code	Size	Packaging	Notes
344007	1kg	Plastic bottle	
344003	25kg	Plastic bucket	

## Iron (II) chloride tetrahydrate

FeCl<sub>2</sub>·4H<sub>2</sub>O  
Molecular Weight 126,7  
CAS : 13478-10-9  
EEC-N : 231-843-4

**Classification transport**  
ONU: 3260  
Transport Hazard class: 8  
Packing group III

  **Danger**  
3.3/1; H318-3.1.0/4; H302-3.2/2; H315  
P280-P305+P351+P338-P330-P332+P313-P362-P501a

### Iron (II) chloride tetrahydrate > RPE-For analysis

RPE

Description ..... Yellow-green crystals Subst. not ppt NH<sub>4</sub>OH ..... <=500 ppm Cr ..... <=20 ppm Pb ..... <=20 ppm  
Identification ..... Positive Ferric salt ..... <=0.2 % Cu ..... <=20 ppm Zn ..... <=20 ppm  
Total nitrogen ..... <=20 ppm Sulphate ..... <=50 ppm Mn ..... <=0.1 % Assay (oxidimetric) ..... >= 99 %  
Phosphate ..... <=10 ppm As ..... <=1 ppm Ni ..... <=50 ppm

Code	Size	Packaging	Notes
451575	500g	Plastic bottle	
451573	25kg	Bag	

# IRO

## Iron (II) sulfate heptahydrate

FeSO<sub>4</sub>·7H<sub>2</sub>O  
Molecular Weight 278,05  
CAS : 7782-63-0  
EEC-N : 231-753-5



**Warning**  
3.1.0/4; H302-3.2/2; H315-3.3/2; H319  
P280-P305+P351+P338-P330-P332+P313-P337+P313-P501a

### Iron (II) sulfate heptahydrate > RPE-For analysis-ACS

RPE

Description .....Green - azure crystals  
Identification .....Positive  
Ferric salt .....<= 0.1 %  
Water-insoluble matter .....<= 100 ppm  
Ca .....<= 50 ppm  
Chloride .....<= 10 ppm  
Phosphate .....<= 10 ppm  
Cu .....<= 50 ppm  
Mn .....<= 0.05 %  
Zn .....<= 50 ppm  
Assay (oxidimetric) .....>= 99.0 %  
Mg .....<= 20 ppm  
K .....<= 20 ppm  
Na .....<= 0.02 %

Code	Size	Packaging	Notes
451877	1kg	Plastic bottle	
451879	5kg	Plastic bottle	

### Iron (II) sulfate heptahydrate > ERBAPharm-According to pharmacopoeia: BP-DAB-FU-Ph.Eur.-Ph.Franc.

ERBAPharm

Description .....Green azure crystals  
Identification .....Positive  
pH solution 5% .....3.0 - 4.0  
Chloride .....<= 200 ppm  
Ferric ion .....<= 0.3 %  
Cr .....<= 50 ppm  
Cu .....<= 50 ppm  
Mn .....<= 0.1 %  
Ni .....<= 50 ppm  
Zn .....<= 50 ppm  
Assay (oxidimetric) .....98.0 - 105.0 %

Code	Size	Packaging	Notes
344957	1kg	Plastic bottle	
344959	5kg	Plastic bottle	

## Iron (II) sulfate 0.1mol/l

### Iron (II) sulfate 0.1mol/l > RS-For analysis according to Ph. Eur. Chap. 4.2.2

RS

Code	Size	Packaging	Notes
613001400	1l	Bottle	Ref Ph.Eur 3001400

## Iron (II) sulfide

FeS  
Molecular Weight 87,9  
CAS : 1317-37-9  
EEC-N : 215-268-6

**Classification transport**  
ONU: 3077  
Transport Hazard class: 9  
Packing group III



**Warning**  
4.1.A/1; H400-EUH031  
P273-P391-P501a

### Iron (II) sulfide > RE-Pure

RE

Description .....Grey-blackish sticks  
Identification .....Positive

Code	Size	Packaging	Notes
451977	1kg	Plastic bottle	

## Iron (III) ammonium citrate green

FeNH<sub>4</sub>(C<sub>6</sub>H<sub>5</sub>O<sub>7</sub>)  
CAS : 1185-57-5  
EEC-N : 214-686-6



**Warning**  
3.2/2; H315-3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

### 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	250g	Plastic bottle	
343607	1kg	Plastic bottle	

## Iron (III) ammonium citrate red

Synonym : Ferric ammonium citrate

FeNH<sub>4</sub>(C<sub>6</sub>H<sub>5</sub>O<sub>7</sub>)  
CAS : 1185-57-5  
EEC-N : 214-686-6



## Warning

3.2/2; H315-3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

## Iron (III) ammonium citrate red &gt; RE-Pure

RE

Description.....Red-brown powder Sulphate .....<= 0.6 % Assay (oxidimetric) .....20 - 23 % Fe  
Identification.....Positive As .....<= 5 ppm

Code	Size	Packaging	Notes
343441	250g	Plastic bottle	
343442	1kg	Plastic bottle	

## Iron (III) ammonium oxalate trihydrate

(NH<sub>4</sub>)<sub>3</sub>Fe(C<sub>2</sub>O<sub>4</sub>)<sub>3</sub>·3H<sub>2</sub>O  
Molecular Weight 428,08  
CAS : 15187-32-3

## Iron (III) ammonium oxalate trihydrate &gt; RE-Pure

RE

Description.....Green crystals pH 10% at 25° C .....4.0 - 6.0 Sulphate .....<=50 ppm  
Identification.....Positive Chloride .....<=50 ppm Assay (oxidimetric) .....>=98 %

Code	Size	Packaging	Notes
343757	1kg	Plastic bottle	

## Iron (III) ammonium sulfate dodecahydrate

FeNH<sub>4</sub>(SO<sub>4</sub>)<sub>2</sub>·12H<sub>2</sub>O  
Molecular Weight 482,19  
CAS : 7783-83-7  
EEC-N : 233-382-4



## Warning

3.2/2; H315-3.3/2; H319  
P280-P264-P305+P351+P338-P332+P313-P337+P313-P362

## Iron (III) ammonium sulfate dodecahydrate &gt; RPE-For analysis

RPE

Description.....Purple semitransparent crystals Subst. not ppt NH<sub>4</sub>OH .....<=0.1 % Mn .....<=100 ppm  
Identification.....Positive As .....<=2 ppm Na .....<=150 ppm  
pH sol. 5% at 25° C .....1.75 - 2.75 Ca .....<=10 ppm Ni .....<=20 ppm  
Chloride .....<=3 ppm Cr .....<=100 ppm Pb .....<=30 ppm  
Phosphate .....<=20 ppm Cu .....<=10 ppm Zn .....<=20 ppm  
Diluted HCl-ins. matter .....<=50 ppm K .....<=300 ppm Assay (oxidimetric) .....>=98 %  
Nitrate .....<=50 ppm Mg .....<=50 ppm

Code	Size	Packaging	Notes
451505	500g	Plastic bottle	
451507	1kg	Plastic bottle	
451502	25kg	Drum	
451504	50kg	Plastic bucket	

## Iron (III) ammonium sulfate dodecahydrate &gt; RE-Pure

RE

Description.....Translucent purple crystals Chloride .....<= 0.05 % Zn .....<= 50 ppm  
Identification.....Positive Subst. not ppt NH<sub>4</sub>OH .....<= 0.1 %  
Assay (oxidimetric) .....>= 98.0 % Cu .....<= 20 ppm

Code	Size	Packaging	Notes
344107	1kg	Plastic bottle	

Product specifications are subject to changes.  
Please visit our website for updates.

# IRO

## Iron (III) ammonium sulfate solution 33% in nitric acid

FeNH<sub>4</sub>(SO<sub>4</sub>)<sub>2</sub>·12H<sub>2</sub>O  
CAS : 7783-83-7

### Classification transport

ONU: 2031  
Transport Hazard class: 8  
Packing group II



### Danger

3.1./2; H330-3.2/1A; H314  
P260-P271-P304+P340-P305+P351+P338-P405-P501a

### 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	500ml	Glass bottle	

## Iron (III) ammonium sulfate 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	1l	Bottle	Ref Ph.Eur 3001300

## Iron (III) ammonium sulfate solution 100 g/l



### Warning

3.2/2; H315-3.3/2; H319  
P280-P264-P305+P351+P338-P332+P313-P337+P313-P362

### 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	100ml	Bottle	Ferric ammonium sulfate solution R2 Ref Ph.Eur 1037702
611037702	1l	Bottle	Ferric ammonium sulfate solution R2 Ref Ph.Eur 1037702

## Iron (III) chloride anhydrous sublimed

FeCl<sub>3</sub>  
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

3.3/1; H318-3.1.0/4; H302-3.2/2; H315  
P280-P305+P351+P338-P330-P332+P313-P362-P501a

### Iron (III) chloride anhydrous sublimed > RPE-For analysis

RPE

Description.....Black powder Cu.....<= 0.1 % Zn .....<= 0.1 %  
Identification.....Positive Mn .....<= 0.3 % Assay (oxidimetric) .....>= 98 %  
Water-insoluble matter.....<= 1 % Ni .....<= 500 ppm  
As .....<= 20 ppm Pb .....<= 200 ppm

Code	Size	Packaging	Notes
451695	250g	Glass bottle	
451692	25kg	Drum	

## Iron (III) chloride hexahydrate

FeCl<sub>3</sub>.6H<sub>2</sub>O  
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**  
3.2/1B; H314  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

### 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
451626	500g	Plastic bottle	
451627	1kg	Plastic bottle	
451621	100kg	Bag	

### Iron (III) chloride hexahydrate > RE-Pure

RE

Description.....Grains or dark yellow block  
Identification.....Positive  
Acidity (HCl) .....<= 0.8 %  
Sulphate .....<= 0.1 %  
Fe (+2).....<= 0.9 %  
Heavy metals (Pb).....<= 0.05 %  
Assay (oxidimetric) .....59 - 61 %  
Assay (FeCl<sub>3</sub>.6H<sub>2</sub>O).....>= 99 %

Code	Size	Packaging	Notes
344507	1kg	Plastic bottle	
344508	2,5kg	Plastic bottle	
344504	25kg	Fibre drum	

## Iron (III) chloride solution 4.5%



**Danger**  
3.3/1; H318  
P280-P305+P351+P338-P310

### 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	1l	Glass bottle	

## Iron (III) citrate

C<sub>6</sub>H<sub>8</sub>O<sub>7</sub>.xFe  
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	1kg	Plastic bottle	

## Iron (III) nitrate nonahydrate

Fe(NO<sub>3</sub>)<sub>3</sub>·9H<sub>2</sub>O  
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**  
2.14/2; H272-3.2/2; H315-3.3/2; H319-3.8/3; H335  
P210-P221-P304+P340-P305+P351+P338-P405-P501a

## Iron (III) nitrate nonahydrate &gt; RPE-For analysis-ACS


RPE

Description.....Purplish crystals deliquescent Water-insoluble matter.....<=50 ppm Assay (oxidimetric).....98.0 - 101.0 %  
Identification.....Positive Chloride.....<=5 ppm  
Subst. not ppt NH<sub>4</sub>OH.....<=0.1 % Sulphate.....<=100 ppm

Code	Size	Packaging	Notes
451725	500g	Plastic bottle	
451727	1kg	Plastic bottle	
451722	25kg	Drum	
451724	50kg	Fibre drum	

## Iron (III) oxide

Fe<sub>2</sub>O<sub>3</sub>  
Molecular Weight 159,7  
CAS : 1309-37-1  
EEC-N : 215-168-2

 **Warning**  
3.2/2; H315-3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

## Iron (III) oxide &gt; RPE-For analysis

RPE


Description.....Red brown powder Chloride.....<=100 ppm Cr.....<=10 ppm Na.....<=200 ppm  
Identification.....Positive Sulphate.....<=100 ppm Cu.....<=50 ppm Ni.....<=50 ppm  
Loss on drying.....<=0.2 % Ca.....<=100 ppm K.....<=50 ppm Pb.....<=50 ppm  
Diluted HCl-ins. matter.....<=100 ppm Mg.....<=50 ppm Zn.....<=50 ppm  
Total nitrogen.....<=50 ppm Co.....<=50 ppm Mn.....<=50 ppm Assay (oxidimetric).....>=99 %

Code	Size	Packaging	Notes
451824	100g	Plastic bottle	
451826	500g	Plastic bottle	

## Iron (III) perchlorate nonahydrate

Fe(ClO<sub>4</sub>)<sub>3</sub>·9H<sub>2</sub>O  
Molecular Weight 516,34  
CAS : 13537-24-1  
EEC-N : 236-908-0

**Classification transport**  
ONU: 1481  
Transport Hazard class: 5.1  
Packing group II

 **Danger**  
2.14/2; H272-3.2/1A; H314  
P210-P221-P304+P340-P305+P351+P338-P405-P501a

## Iron (III) perchlorate nonahydrate &gt; RE-Pure


RE

Description.....Yellow brown crystals Chloride.....<=100 ppm  
Identification.....Positive Assay (complexometric).....>=98 %

Code	Size	Packaging	Notes
451841	100g	Glass bottle	

## Iron (III) sulfate

Fe<sub>2</sub>(SO<sub>4</sub>)<sub>3</sub>·nH<sub>2</sub>O  
Molecular Weight 151,85  
CAS : 15244-10-7  
EEC-N : 233-072-9

 **Warning**  
3.1.0/4; H302-3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

## Iron (III) sulfate &gt; RPE-For analysis

RPE

Description.....Yellow-green powder Dil. H<sub>2</sub>SO<sub>4</sub>-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
451926	500g	Plastic bottle	
451927	1kg	Plastic bottle	

## Isoamyl acetate

C<sub>7</sub>H<sub>14</sub>O<sub>2</sub>  
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

2.6/3; H226-EUH066  
P210-P241-P243-P303+P361+P353-P403+P235-P501a

### 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) .....>=99.5 %

Code	Size	Packaging	Notes
417781	250ml	Glass bottle	
417782	1l	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 %

Code	Size	Packaging	Notes
313251	1l	Glass bottle	
313252	15kg	Metal tank	

## Isoamyl alcohol

Synonyms : 3-Methyl-1-butanol  
Isopentyl alcohol

(CH<sub>3</sub>)<sub>2</sub>CHCH<sub>2</sub>.CH<sub>2</sub>OH  
Molecular Weight 88,151  
CAS : 123-51-3  
EEC-N : 204-633-5

### Classification transport

ONU: 1105  
Transport Hazard class: 3  
Packing group III



### Warning

2.6/3; H226-3.1.0/4; H302  
P210-P241-P243-P330-P403+P235-P501a

### 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
413892	1l	Glass bottle	

### 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 esters .....<=0.2 %  
Residue on evaporation .....<=30 ppm  
Carbonyl (HCOH) .....<=0.1 %  
Assay (GLC) .....>=98.5 %

Code	Size	Packaging	Notes
413801	500ml	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 esters .....<=0.2 %  
Residue on evaporation .....<=30 ppm  
Carbonyl (HCOH) .....<=0.1 %  
Assay (GLC) .....>=97 %

Code	Size	Packaging	Notes
413832	1l	Glass bottle	
413836	2,5l	Glass bottle	
413833	22kg	Metal tank	

Product specifications are subject to changes.  
Please visit our website for updates.

## Isoamyl alcohol > RE-Pure

**RE**

Description .....Clear colourless liquid      Refractive index at 20°C .....1.4038 - 1.4098      Residue on evaporation .....<=0.1 %  
 Identification .....Positive      Boiling point .....132 ± 1.5 ° C      Acids and esters .....<=0.5 %  
 Density at 20° C .....0.807 - 0.817      Water (K.F.) .....<=0.2 %

Code	Size	Packaging	Notes
308001	1l	Glass bottle	
308003	22kg	Metal tank	

## Isobutanol

Synonym : 2-Methyl-1-propanol

(CH<sub>3</sub>)<sub>2</sub>CHCH<sub>2</sub>OH  
 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

3.3/1; H318-2.6/3; H226-3.8/3; H335-H336-3.2/2; H315  
 P210-P241-P304+P340-P305+P351+P338-P403+P235-P405-P501a

## Isobutanol > RS-Anhydrous-For analysis

**RS**

Refractive index at 20°C .....1.394 - 1.398      Non volatile residue .....<= 10 mg/Kg      Free acid (as CH<sub>3</sub>COOH) .....<= 40 mg/Kg  
 Colour .....<= 10 APHA      Assay (GC) .....>= 99.5 %  
 Water content (K.F.) .....<= 200 mg/Kg      1-butanol .....<= 0.4 %

Code	Size	Packaging	Notes
P0531016	1l	Glass bottle	

## Isobutanol > RPE-For analysis-ACS

**RPE**

Description .....Clear liquid      Water solubility .....Conform      Water (K.F.) .....<=0.1 %      Alkalinity (NH<sub>3</sub>) .....<=10 ppm  
 Colour .....<=10 APHA      Density at 20° C .....0.801 - 0.803      Residue on evaporation .....<=10 ppm      Indole base .....<=0.1 ppm  
 Identification (I.R.) .....Positive      Refractive index at 20°C .....1.3945 - 1.3975      Carbonyl Compounds (CO) .....<=100 ppm      Assay (GLC) .....>=99 %  
 Fluorescence .....Conform      Boiling point .....105 - 109 ° C      Acidity (acetic acid) .....<=100 ppm

Code	Size	Packaging	Notes
414211	1l	Glass bottle	
414214	200l	Metal drum	
414213	22kg	Metal tank	

## Isobutanol > RE-Pure

**RE**

Description .....Clear colourless liquid      Boiling point .....105.0 - 109.0 °C      Assay (GLC) .....>=99 %  
 Identification .....Positive      Water (K.F.) .....<=0.1 %      1-Butanol .....<= 0.4 %  
 Density at 20° C .....0.800 - 0.804      Residue on evaporation .....<=50 ppm  
 Refractive index at 20°C .....1.3930 - 1.3990      Acidity (acetic acid) .....<= 40 ppm

Code	Size	Packaging	Notes
308301	1l	Glass bottle	
308303	22kg	Metal tank	

## Isobutyl acetate

(CH<sub>3</sub>)<sub>2</sub>CHCH<sub>2</sub>OCOCH<sub>3</sub>  
 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

2.6/2; H225-EUH066  
 P210-P241-P243-P303+P361+P353-P403+P235-P501a

## Isobutyl acetate > RPE-For analysis

**RPE**

Description .....Clear colourless liquid      Refractive index at 20°C .....1.3851 - 1.3951      Residue on evaporation .....<=100 ppm  
 Identification .....Positive      Boiling point .....114 - 118.5 ° C      Acidity (acetic acid) .....<=500 ppm  
 Density at 20° C .....0.867 - 0.877      Water (K.F.) .....<=0.1 %      Assay (GLC) .....>=98.0 %

Code	Size	Packaging	Notes
431721	500ml	Glass bottle	



## ► Isobutyl acetate &gt; RE-Pure


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	1l	Glass bottle	
325633	24kg	Metal tank	

## ► Isobutyric acid

(CH<sub>3</sub>)<sub>2</sub>CHCOOH  
 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**  
 2.6/3; H226-3.1.O/4; H302-3.1.D/4; H312  
 P210-P241-P243-P312-P403+P235-P501a

## ► Isobutyric acid &gt; 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	500ml	Glass bottle	

## ► Isohexane

Synonym : 2-Methylpentane

C<sub>6</sub>H<sub>14</sub>  
 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**  
 2.6/2; H225-3.10/1; H304-3.2/2; H315-3.8/3; H336-4.1.C/2; H411  
 P210-P241-P304+P340-P403+P235-P405-P501a

## ► Isohexane &gt; RS-For HPLC Isocratic

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 C<sub>6</sub>H<sub>14</sub> isomers (GC) .....>= 80 %  
**U.V. Transmittance**  
 At 200 nm .....>= 25 %  
 At 210 nm .....>= 55 %  
 At 220 nm .....>= 80 %  
 At 230 nm .....>= 90 %  
 At 250 nm .....>= 98 %

Code	Size	Packaging	Notes
445151	2,5l	Glass bottle	

## ► Isohexane &gt; RS-ATRASOL-For trace analysis, Suitable for Hydrocarbon index determination

RS

Appearance.....Clear colourless liquid  
 Identification (IR) .....Conform  
 Water content (K.F.) .....<= 100 mg/Kg  
 Colour .....<= 10 Hazen  
 n-hexane.....<= 5 %  
 Total C<sub>6</sub>H<sub>14</sub> isomers (GC) .....>= 95 %  
 Non volatile residue .....<= 5 mg/Kg  
 GC-ECD.Individual peak (Lindane) .....<= 3 ng/l  
**Retention time trichlorobenzene to mirex**  
 Hydrocarbon oil index .....<= 0.1 mg/l  
**Retention time n-decane - n-tetracontane**  
 GC-FID. Individual peak (C10-C40).....<= 5 °g/l  
 Total sulphur (S) .....<= 1 ppm

Code	Size	Packaging	Notes
P6263221	2,5l	Glass bottle	

## ► Isohexane &gt; RS-PESTIPUR- For pesticide analysis

RS

Water content (K.F.) .....<= 100 mg/Kg  
 Colour .....<= 10 Hazen  
 Identification (IR) .....Conform  
 n-hexane .....<= 5 %  
 Total C<sub>6</sub>H<sub>14</sub> isomers (GC) .....>= 80 %  
 Non volatile residue .....<= 5 mg/Kg  
 GC-ECD.Individual peak (Lindane) .....<= 3 ng/l  
**Retention time trichlorobenzene to mirex**

Code	Size	Packaging	Notes
447131	1l	Glass bottle	
447132	2,5l	Glass bottle	

## Isohexane > RPE-For analysis

**RPE**

Description.....Clear colourless liquid	Residue on evaporation.....<= 10 ppm	Methylcyclopentane.....<= 16 %
Colour.....<= 10 APHA	Aromatic compounds.....<= 50 ppm	Total sulphur (S).....<= 1 ppm
Identification (I.R.).....Conform	Total C6-H14 isomers (GC).....>= 80 %	
Water (K.F.).....<= 150 ppm	n-Hexane.....<= 5 %	

Code	Size	Packaging	Notes
447311	1l	Glass bottle	
447312	2,5l	Glass bottle	

## L(+)-Isoleucine

CH3CH2(CH3)CHCHNH2COOH  
 Molecular Weight 131,18  
 CAS : 73-32-5  
 EEC-N : 200-798-2

## L(+)-Isoleucine > RPE-For analysis

**RPE**

Description.....White crystalline powder	Ammonium.....<=10 ppm	Tyrosine.....<=200 ppm
Identification.....Positive	Chloride.....<=50 ppm	Total sulphur.....<=50 ppm
Melting point.....283,0 - 285,0 ° C	Total phosphorus.....<=10 ppm	Fe.....<=10 ppm
Specific optical rotation.....+10,8 - +11,8 °	Heavy metals (Pb).....<=10 ppm	Assay (non-aqueous medium).....>=99 %
Loss on drying.....<=0,1 %	Residue on ignition.....<=500 ppm	

Code	Size	Packaging	Notes
457957	1g	Glass bottle	

## Isooctane

Synonym : 2,2,4-Trimethylpentane

(CH3)3CCH2CH(CH3)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**

2.6/2; H225-3.10/1; H304-4.1.A/1; H400-4.1.C/1; H410-3.2/2; H315-3.8/3; H336  
 P210-P241-P304+P340-P403+P235-P405-P501a

## Isooctane > RS-For HPLC Isocratic

**RS**

Description.....Clear colourless liquid	Water (K.F.).....<=50 ppm	At 205 nm.....>=10 %	At 260 nm.....>=99 %
Identification.....Positive	Residue on evaporation.....<=2 ppm	At 215 nm.....>=60 %	Aromatic compounds.....<= 5 ppm
Density at 20° C.....0,687 - 0,697	Acidity or alkalinity.....<=0,0002 meq/g	At 220 nm.....>=80 %	<b>Filtered at 0,2 µm</b>
Refractive index at 20°C.....1,3885 - 1,3945	Assay (GLC).....>=99,5 %	At 230 nm.....>=90 %	
Boiling point.....98,2 - 100,2 ° C	<b>U.V. Transmittance</b>	At 240 nm.....>=95 %	

Code	Size	Packaging	Notes
412441000	1l	Glass bottle	
412462	2,5l	Glass bottle	
412442000	2,5l	Glass bottle	

## Isooctane > RS-PESTIPUR- For pesticide analysis

**RS**

Description.....Clear colourless liquid	Water.....<= 50 ppm	GC-ECD (Lindane).....<= 3 ng/l
Identification.....Positive	Free acids (CH3COOH).....<= 20 ppm	GC-NPD (Ethylparation).....<= 3 ng/l
Colour.....<= 10 hazen	Not volatile residue.....<= 2 ppm	Assay (GLC).....>= 99,5 %

Code	Size	Packaging	Notes
456791	1l	Glass bottle	
456792	2,5l	Glass bottle	

## Isooctane > RS-SPECTROSOL - For optical spectroscopy

**RS**

Description.....Clear liquid	Refractive index at 20°C.....1,3885 - 1,3945	Residue on evaporation.....<=5 ppm	At 255 nm.....>=98 %
Colour.....<=10 APHA	Boiling point.....98,2 - 100,2 ° C	Assay (GLC).....>=99,5 %	At 210 nm.....>=35 %
Identification.....Positive	Acidity or alkalinity.....<=0,0002 meq/g	Aromatic compounds.....<=5 ppm	At 220 nm.....>=72 %
Density at 20° C.....0,687 - 0,697	Water (K.F.).....<=50 ppm	<b>U.V. Transmittance</b>	At 230 nm.....>=85 %

Code	Size	Packaging	Notes
456754	1l	Glass bottle	
456753	2,5l	Glass bottle	

## ► Isooctane &gt; RS-Standard for refractometry

Description .....Clear colourless liquid Density at 20° C.....0.687 - 0.697  
 Identification.....Positive Refractive index at 20°C .....1.388 - 1.394

Code	Size	Packaging	Notes
456641	100ml	Glass bottle	

## ► Isooctane &gt; RPE-For analysis-ACS

Description .....Clear colourless liquid Refractive index at 20°C .....1.391 - 1.393 Assay (CPG) .....>= 99.5 %  
 Identification (I.R.).....Positive Water-soluble titrable acid .....<= 0.0003 meq/g Distillation range 95% distils between .....98 - 100 °C  
 Colour .....<= 10 APHA Residue on evaporation .....<= 0.001 % Water (K.F.) .....<= 100 ppm  
 Density at 20°C.....0.691 - 0.696 Sulfur compounds (S).....<= 0.005 % Aromatics.....<= 10 ppm

Code	Size	Packaging	Notes
456734	1l	Glass bottle	
456732	2,5l	Glass bottle	
456731	5l	Plastic tank	

## ► Isooctane &gt; RE-Pure - ASTM

Description .....Clear liquid Boiling point .....98.2 - 100.2 °C Total sulphur .....<= 10 ppm Assay (GLO) .....>= 99.5 %  
 Identification.....Positive Residue on evaporation .....<= 20 ppm Lead .....<= 0.5 mg/l  
 Density at 20°C.....0.687 - 0.697 Water (K.F.).....<= 150 ppm n-heptane (ASTM) .....<= 0.10 % v/v  
 Refractive index at 20°C .....1.3885 - 1.3945 Aromatics.....<= 50 ppm Isooctane (ASTM).....>= 99.75 % v/v

Code	Size	Packaging	Notes
528963	2,5l	Glass bottle	
528960	5l	Plastic tank	
528961	25l	Metal tank	

## Isopar G

Molecular Weight 150,00  
 CAS : 90622-57-4  
 EEC-N : 292-459-0

**Classification transport**  
 ONU: 3295



3.10/1; H304-2.6/3; H226-4.1.C/4; H413-EUH066  
 P210-P241-P301+P310-P403+P235-P405-P501a

## ► Isopar G &gt; RS-RSE For electronic use

Appearance.....Clear colourless liquid Refractive index at 20°C .....1.416 - 1.418 Aromatics.....<= 0.01 %  
 Colour .....<= 10 APHA Distillation range .....159 - 176 °C  
 Density at 15°C.....0.745 - 0.756 Residue on evaporation .....<= 10 ppm

Code	Size	Packaging	Notes
526151	2,5l	Glass bottle	

## Isopentane

Synonym : 2-Methylbutane

(CH<sub>3</sub>)<sub>2</sub>CHCH<sub>2</sub>CH<sub>3</sub>  
 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**  
 2.6/1; H224-3.10/1; H304-3.8/3; H336-4.1.C/2; H411-EUH066  
 P210-P241-P304+P340-P403+P235-P405-P501a

## ► Isopentane &gt; RS-Anhydrous-For analysis

Refractive index at 20°C .....1.352 - 1.356 Aromatic compounds.....<= 20 mg/Kg Identification (IR) .....Conform  
 Water content (K.F.) .....<= 50 mg/Kg Colour .....<= 10 Hazen Total sulphur (S) .....<= 2 ppm  
 Non volatile residue .....<= 10 mg/Kg Assay (GC).....>= 95 %

Code	Size	Packaging	Notes
P0651016	1l	Glass bottle	

## Isopentane > RPE-For analysis

**RPE**

Description .....Clear colourless liquid      Refractive index at 20°C .....1.352 - 1.356      Aromatic compounds .....<= 20 ppm  
 Colour .....<= 10 APHA      Water (K.F.) .....<= 150 ppm      Assay (CPG) .....>= 95 %  
 Identification (I.R.) .....Conform      Residue on evaporation .....<= 10 ppm      Total sulphur (S) .....<= 2 ppm

Code	Size	Packaging	Notes
524391	1l	Glass bottle	

## Isopentane > RE-Pure

**RE**

Description .....Clear colourless liquid      Refractive index at 20°C .....1.3507 - 1.3607      Aromatics .....<= 50 ppm  
 Identification .....Positive      Boiling point .....27 - 28.5 °C      Total sulphur (S) .....<= 2 ppm  
 Colour .....<= 10 APHA      Water (K.F.) .....<= 200 ppm      Assay .....>= 95.0 %  
 Density at 20°C .....0.610 - 0.630      Residue on evaporation .....<= 20 ppm

Code	Size	Packaging	Notes
528492	1l	Glass bottle	
528491	5l	Aluminium can	

## Isophorone

Synonym : 3,5,5-Trimethyl-2-cyclohexen-1-one

(CH3)2CCH2COCH:C(CH3)CH2  
 Molecular Weight 138,21  
 CAS : 78-59-1  
 EEC-N : 201-126-0


**Warning**

3.6/2; H351-3.1.0/4; H302-3.1.D/4; H312-3.3/2; H319-3.8/3; H335  
 P261-P271-P304+P340-P305+P351+P338-P405-P501a

## Isophorone > RPE-For analysis

**RPE**

Description .....Yellow clear liquid      Refractive index at 20°C .....1.4750 - 1.4790  
 Identification .....Positive      Assay (GLC) .....>= 97.5 %

Code	Size	Packaging	Notes
456771	250ml	Glass bottle	
456772	1l	Glass bottle	

## Isopropyl acetate

CH3COOCH(CH3)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**

2.6/2; H225-3.3/2; H319-3.8/3; H336-EU066  
 P210-P241-P304+P340-P305+P351+P338-P403+P235-P405-P501a

## Isopropyl acetate > RPE-For analysis

**RPE**

Description .....Clear liquid      Refractive index at 20°C .....1.3760 - 1.3780      Acidity (acetic acid) .....<=50 ppm  
 Identification .....Positive      Boiling point .....88 - 89 °C      Assay (GLC) .....>=99.8 %  
 Colour .....<=10 APHA      Water (K.F.) .....<=0.05 %  
 Density at 20° C .....0.869 - 0.875      Residue on evaporation .....<=10 ppm

Code	Size	Packaging	Notes
474821	250ml	Glass bottle	
P0890528	5l	Metal tank	

## Isopropyl acetate > RE-Pure-For synthesis

**RE**



Refractive index at 20°C .....1.375 - 1.379      Non volatile residue .....<= 20 mg/Kg      Assay (GC) .....>= 99 %  
 Appearance .....Clear liquid      Colour .....<= 10 Hazen      Free acid (as CH3COOH) .....<= 50 mg/Kg  
 Water content (K.F.) .....<= 800 mg/Kg      Colour .....Colourless      2-Propanol .....<= 1000 mg/Kg

Code	Size	Packaging	Notes
P0890228	5l	Plastic tank	
P0890240	10l	Metal tank	
P0890268	200l	Metal drum	

## Isopropylamine

(CH<sub>3</sub>)<sub>2</sub>CHNH<sub>2</sub>  
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**  
2.6/1; H224-3.2/2; H315-3.3/2; H319-3.8/3; H335  
P210-P241-P304+P340-P305+P351+P338-P403+P235-P405-P501a

### Isopropylamine > RPE-For analysis

RPE

Description .....Clear colourless liquid Density at 20° C.....0.687 - 0.693 Water (K.F.).....<=0.1 %  
Identification.....Positive Residue on evaporation.....<=50 ppm Assay (GLC).....>=99.5 %

Code	Size	Packaging	Notes
474756	1l	Glass bottle	

## Isopropyl myristate

C<sub>17</sub>H<sub>34</sub>O<sub>2</sub>  
Molecular Weight 270,45  
CAS : 110-27-0  
EEC-N : 203-751-4

### Isopropyl myristate > RS-For synthesis

RS

Clear, colourless liq. appearance .....Conform Refractive index at 20°C .....1.4340 - 1.4370 Saponification number .....202 - 212 mg KOH/g  
Clear, colourless solution appearance.....Conform Assay (GC) (C<sub>17</sub>H<sub>34</sub>O<sub>2</sub>).....>= 92 % Water content (K.F.) .....<= 0.1 % m/m  
Alcohol miscibility .....Miscible Viscosity at 20°C.....5 - 6 mPa.s Sulfuric ashes.....<= 0.1 %  
Dichloromethane miscibility.....Miscible Acid number .....<= 1 mg KOH /g  
Identification B .....Conform Iodine number .....<= 1 g I<sub>2</sub>/100g

Code	Size	Packaging	Notes
P6070268	205l	Metal drum	

## Kaolin washed

CAS : 1332-58-7  
EEC-N : 310-194-1

### Kaolin washed > RE-Pure

RE

Description .....White hazel powder Loss on drying .....<= 1 %  
Identification.....Positive Loss on ignition.....10.4 - 11.8 %




Code	Size	Packaging	Notes
332573	5kg	Plastic bottle	
332574	25kg	Plastic bucket	

## Karl Fischer, reagents and solvents for the volumetric titration

Karl Fischer reagent 2 mg H<sub>2</sub>O/ml-bicomponent-Py free.....281 Karl Fischer reagent 5 mg H<sub>2</sub>O/ml-bicomponent-Py free.....282 Karl Fischer solvent KA-bicomponent-Py free .....283  
Karl Fischer reagent 2 mg H<sub>2</sub>O/ml-monocomponent-Py free ..282 Karl Fischer reagent 5 mg H<sub>2</sub>O/ml-monocomponent-Py free ..282 Methanol.....320  
Karl Fischer reagent 5 KA 5mg H<sub>2</sub>O /ml-bicomponent-Py free282 Karl Fischer solvent bicomponent -Py free .....283 Sodium tartrate dihydrate .....503

## Karl Fischer reagent 2 mg H<sub>2</sub>O/ml-bicomponent-Py free

**Classification transport**  
ONU: 1228  
Transport Hazard class: 3  
Packing group II

   **Danger**  
2.6/2; H225-3.1.D/3; H311-3.8/1; H370  
P210-P241-P307+P311-P403+P235-P405-P501a

### Karl Fischer reagent 2 mg H<sub>2</sub>O/ml-bicomponent-Py free > RS-For aquametry

RS

Description.....Brown red liquid Identification.....Positive Water equivalent .....>= 2.0 mg/ml

Code	Size	Packaging	Notes
457051	1l	Glass bottle	

## Karl Fischer reagent 2 mg H<sub>2</sub>O/ml-monocomponent-Py free

**Classification transport**

ONU: 1760  
 Transport Hazard class: 8  
 Packing group III



**Danger**

3.2/1B; H314  
 P260-P280-P304+P340-P305+P351+P338-P405-P501a

### Karl Fischer reagent 2 mg H<sub>2</sub>O/ml-monocomponent-Py free > RS-For aquametry

RS

Description.....Brown red liquid Identification.....Positive Water equivalent .....>= 2.0 mg/ml

Code	Size	Packaging	Notes
457021	1l	Glass bottle	

Contains Imidazole, sulfur dioxide

## Karl Fischer reagent 5 KA 5mg H<sub>2</sub>O /ml-bicomponent-Py free

**Classification transport**

ONU: 2927  
 Transport Hazard class: 6.1  
 Packing group II



**Danger**

3.2/1B; H314  
 P260-P280-P304+P340-P305+P351+P338-P405-P501a

### Karl Fischer reagent 5 KA 5mg H<sub>2</sub>O /ml-bicomponent-Py free > RS-For aquametry

RS

Description.....Brown clear liquid Identification.....Positive Water equivalent .....>= 5.0 mg/ml

Code	Size	Packaging	Notes
457071	1l	Glass bottle	

Contains Imidazole, sulfur dioxide

## Karl Fischer reagent 5 mg H<sub>2</sub>O/ml-bicomponent-Py free

**Classification transport**

ONU: 3286  
 Transport Hazard class: 3  
 Packing group II



**Danger**

2.6/2; H225-3.1.D/3; H311-3.8/1; H370  
 P210-P241-P307+P311-P403+P235-P405-P501a

### Karl Fischer reagent 5 mg H<sub>2</sub>O/ml-bicomponent-Py free > RS-For aquametry

RS

Description.....Brown red liquid Identification.....Positive Water equivalent .....>= 5.0 mg/ml

Code	Size	Packaging	Notes
457041	1l	Glass bottle	

## Karl Fischer reagent 5 mg H<sub>2</sub>O/ml-monocomponent-Py free

**Classification transport**

ONU: 1760  
 Transport Hazard class: 8  
 Packing group III



**Danger**

3.2/1B; H314  
 P260-P280-P304+P340-P305+P351+P338-P405-P501a

### Karl Fischer reagent 5 mg H<sub>2</sub>O/ml-monocomponent-Py free > RS-For aquametry

RS

Description.....Brown red liquid Identification.....Positive Water equivalent .....>= 5.0 mg/ml

Code	Size	Packaging	Notes
457011	1l	Glass bottle	

## Karl Fischer solvent bicomponent -Py free

**Classification transport**

ONU: 3286  
 Transport Hazard class: 3  
 Packing group I



**Danger**  
 2.6/2; H225-3.1.D/3; H311-3.8/1; H370-3.2/1B; H314  
 P210-P241-P304+P340-P305+P351+P338-P307+P311-P403+P235-P405-P501a

### Karl Fischer solvent bicomponent -Py free > RS-For aquametry

RS

Description .....Clear colourless liquid Identification.....Positive Assay (SO2) .....79.0 - 81.0 g/l

Code	Size	Packaging	Notes
457061	1l	Glass bottle	

## Karl Fischer solvent KA-bicomponent-Py free

**Classification transport**

ONU: 1986  
 Transport Hazard class: 3  
 Packing group I



**Danger**  
 2.6/2; H225-3.1.O/3; H301-3.1.D/2; H310-3.1.I/2; H330-3.6/2; H351-3.9/2; H373-3.2/2; H315  
 P210-P241-P302+P350-P304+P340-P403+P235-P405-P501a

### Karl Fischer solvent KA-bicomponent-Py free > RS-For aquametry

RS

Description .....Clear colourless liquid Identification.....Positive

Code	Size	Packaging	Notes
457081	1l	Glass bottle	

Contains Trichloromethane, 2-Chloroethanol

## Kieselguhr composed

Molecular Weight 1495,00  
 CAS : 91053-39-3  
 EEC-N : 293-303-4



**Warning**  
 3.9/2; 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	250g	Plastic bottle	
449897	1kg	Plastic bottle	

## Kjeldahl, Nitrogen content

Kjeldahl antifoam .....	283	Kjeldahl catalyst without selenium and titanium .....	284	Sodium hydroxide solution 32% .....	479
Kjeldahl catalyst .....	284	Kjeldahl selenium catalyst .....	284	Sodium hydroxide solution 32% .....	479
Kjeldahl catalyst according to Wieninger .....	284	Kjeldahl titanium catalyst .....	285	Sulfuric acid 98% .....	526
Kjeldahl catalyst for water analysis .....	284	Phosphosulfuric acid .....	392	Sodium hydroxide solution 30% .....	480

## Kjeldahl antifoam

### Kjeldahl antifoam > RS-For Kjeldahl

RS

Description .....White round flat tablets

Code	Size	Packaging	Notes
502811	1kg	Metallic can	1g pellets

Composition : Sodium sulfate 0,97 g/Silicone antifoam 0,03 g

# KJE

## Kjeldahl catalyst

**Classification transport**  
ONU: 3077  
Transport Hazard class: 9  
Packing group III



**Warning**

3.2/2; H315-3.3/2; H319-4.1.C/2; H411  
P280-P305+P351+P338-P332+P313-P337+P313-P362-P501a

### Kjeldahl catalyst > RS-For Kjeldahl

RS

Description.....White azure powder Identification.....Positive Functionality.....Conform

Code	Size	Packaging	Notes
435971	100g	Glass bottle	
435974	1kg	Plastic bottle	

## Kjeldahl catalyst according to Wieninger

### Kjeldahl catalyst according to Wieninger > RS-For Kjeldahl

RS

Description.....Grey round flat tablets

Code	Size	Packaging	Notes
502821	1000 pellets	Metallic can	Composition : Sodium sulfite 4,88 g/ Copper sulfite 0,07 g/ Selenium 0,05 g

K

## Kjeldahl catalyst for water analysis

### Kjeldahl catalyst for water analysis > RS-For Kjeldahl

RS

Code	Size	Packaging	Notes
502121	1000 pellets	Metallic can	Composition : Potassium sulfite 5,0 g/Selenium 5 mg
502122	1000 pellets	Metallic can	Composition : Potassium sulfite 5,0 g/Selenium 50 mg

## Kjeldahl catalyst without selenium and titanium

### Kjeldahl catalyst without selenium and titanium > RS-For Kjeldahl

RS

Description.....Blue speckled round flat tablets

Code	Size	Packaging	Notes
502791	1000 pellets	Metallic can	Composition : Potassium sulfite 3,50 g/Copper sulfite 0,40 g
502792	1000 pellets	Metallic can	Composition : Potassium sulfite 5,0 g/Copper sulfite 0,50 g

## Kjeldahl selenium catalyst

**Classification transport**  
ONU: 3077  
Transport Hazard class: 9  
Packing group III



4.1.C/2; H411  
P273-P391-P501a

### Kjeldahl selenium catalyst > RS-For Kjeldahl

RS

Description.....Dark grey round flat tablets

Code	Size	Packaging	Notes
502120	1000 pellets	Metallic can	Composition : Potassium sulfite 4,63 g/Copper sulfite 0,28 g/Selenium 0,09g



## Kjeldahl titanium catalyst

## Kjeldahl titanium catalyst &gt; RS-For Kjeldahl

RS

Description .....Blue speckled round flat tablets

Code	Size	Packaging	Notes
502123	1000 pellets	Metallic can	Composition : Potassium sulfate 3,5 g/Copper sulfate 0,105 g/Titane dioxide 0,105 g
502801	1000 pellets	Metallic can	Composition : Potassium sulfate 5,00 g/Copper sulfate 0,15 g/Titane dioxide 0,15 g

## Kovac reagent

## Classification transport

ONU: 2920  
 Transport Hazard class: 8  
 Packing group II



## Warning

2.6/3; H226-3.1.1/4; H332-3.2/2; H315-3.3/2; H319-3.6/3; H335  
 P210-P241-P304+P340-P305+P351+P338-P403+P235-P405-P501a

## Kovac reagent &gt; RS-Reagent for indole

RS

Description .....Clear yellow green liquid Identification.....Positive

Code	Size	Packaging	Notes
435922	100ml	Glass bottle	

## Lactic acid

CH<sub>3</sub>CHOHCOOH  
 Molecular Weight 90,08  
 CAS : 79-33-4  
 EEC-N : 201-196-2

## Classification transport

ONU: 3265  
 Transport Hazard class: 8  
 Packing group III



## Danger

3.3/1; H318-3.2/2; H315  
 P280-P264-P305+P351+P338-P332+P313-P362-P302+P352

## Lactic acid &gt; ERBAPharm-According to pharmacopoeia: BP-DAB-FU-Ph.Eur.-Ph.Franc.

ERBAPharm

Description .....Clear courless liquid Citric, oxalic, phosphoric acids.....Conform Ph.Eur. Ca.....<=200 ppm  
 Identification.....Positive Density at 20° C.....1.20 - 1.21 Assay (acidimetric).....88.0 - 92.0 %  
 Appearance.....Conform Ph.Eur. Sulphated ash.....<= 0.1 % Origin (BSE/TSE).....Synthesis  
 Reducing substances.....Conform Ph.Eur. Heavy metals (Pb).....<=10 ppm Residual solvents (CPMP/ICH/283/95).....Conform  
 Ether ins. substances.....Conform Ph.Eur. Sulphate.....<=200 ppm

Code	Size	Packaging	Notes
304652	1l	Glass bottle	
304651	2,5l	Glass bottle	
304653	25kg	Plastic tank	

## Lactophenol blue solution

## Classification transport

ONU: 2927  
 Transport Hazard class: 6.1  
 Packing group II



## Danger

3.1.1/3; H331-3.2/1B; H314-3.5/2; H341-3.9/2; H373-3.1.0/4; H302  
 P260-P261-P304+P340-P305+P351+P338-P405-P501a

## Lactophenol blue solution &gt; RS-For microscopy

RS

Description .....Dark blue liquid Identification.....Positive

Code	Size	Packaging	Notes
428901	100ml	Glass bottle	

*Dye for bacteriology. Contains phenol and lactic acid.*

# LAC

## Lactose

C<sub>12</sub>H<sub>22</sub>O<sub>11</sub>.H<sub>2</sub>O  
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
457552	250g	Plastic bottle	
457557	1kg	Plastic bottle	
457553	25kg	Plastic bucket	

### Lactose > 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 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	1kg	Plastic bottle	
348702	10kg	Bag	
348703	25kg	Plastic bucket	

## Lanolin anhydrous

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 %  
Pesticides residue .....<= 1 ppm

Code	Size	Packaging	Notes
347357	1kg	Metal bucket	
347359	5kg	Plastic bottle	
347354	50kg	Bag	

## Lanthanum standard solution

### Lanthanum standard solution > RS-Standard for ICP-MS

RS


Code	Size	Packaging	Notes
505691	50ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505692	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505695	100ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid

### Lanthanum standard solution > RS-Standard for ICP

RS

Code	Size	Packaging	Notes
503681	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503685	100ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
503683	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503687	500ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

## Lanthanum chloride 25 g/L solution

 **Danger**  
3.2/1C; H314  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

## ▶ Lanthanum chloride 25 g/L solution &gt; RS-Ionisation standard solution for AAS


RS

Code	Size	Packaging	Notes
504537	500ml	Bottle	25 g/L Matrix : 2 % Hydrochloric acid

## Lanthanum nitrate hexahydrate

La(NO<sub>3</sub>)<sub>3</sub>·6H<sub>2</sub>O  
Molecular Weight 433,02  
CAS : 10277-43-7  
EEC-N : 233-238-0

**Classification transport**  
ONU: 1477  
Transport Hazard class: 5.1  
Packing group II

 **Danger**  
2.14/2; H272-3.2/2; H315-3.3/2; H319  
P210-P221-P280-P305+P351+P338-P332+P313-P501a

## ▶ Lanthanum nitrate hexahydrate &gt; RPE-For analysis

RPE

Description ..... White crystalline powder Fe ..... <= 10 ppm  
Identification ..... Positive Ca ..... Assay ..... >= 98.0 %

Code	Size	Packaging	Notes
457502	25g	Glass bottle	
457506	250g	Plastic bottle	

## Lanthanum nitrate solution 50 g/l

## ▶ Lanthanum nitrate solution 50 g/l &gt; RS-For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611048001	1l	Bottle	Ref Ph.Eur 1048001

## Lanthanum oxide

La<sub>2</sub>O<sub>3</sub>  
Molecular Weight 325,81  
CAS : 1312-81-8  
EEC-N : 215-200-5

## ▶ Lanthanum oxide &gt; 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	100g	Glass bottle	

## LC-MS additives

Acetic acid glacial .....2 Formic acid 99% .....213 Trifluoroacetic acid .....563

## LC-MS blends

Acetonitrile + 0.1% v/v formic acid.....	14	Methanol + 0.1% v/v formic acid.....	323	Water + 0.1% v/v formic acid.....	575
Acetonitrile + 0.1% v/v trifluoroacetic acid.....	14	Methanol + 0,1% v/v trifluoroacetic acid.....	324		

## LC-MS solvents

Acetonitrile.....	12	Propan-2-ol.....	429	Water.....	574
Ethyl acetate.....	193	Methanol.....	320		

## Lead standard solution

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

RS

Code	Size	Packaging	Notes
615001700	100ml	Bottle	A 0.1 % solution Ref Ph.Eur 5001700
615001702	100ml	Bottle	A 10 ppm solution : to dilute according to Ref Ph.Eur 5001702
615001703	100ml	Bottle	A 2 ppm solution : to dilute according to Ref Ph.Eur 5001703
615001704	100ml	Bottle	A 1 ppm solution : to dilute according to Ref Ph.Eur 5001704
615001705	100ml	Bottle	A 0,1 ppm solution : to dilute according to Ref Ph.Eur 5001705
615001706	100ml	Bottle	A 10 ppm solution R1 : to dilute according to Ref Ph.Eur 5001706
615001709	100ml	Bottle	A 100 ppm solution : to dilute according to Ref Ph.Eur 5001701
615001701	500ml	Bottle	A 0.1 % solution Ref Ph.Eur 5001700

### Lead standard solution > RS-For analysis according to USP

RS

Code	Size	Packaging	Notes
504901	100ml	Plastic bottle	
504902	100ml	Plastic bottle	

### Lead standard solution > RS-Standard for ICP-MS

RS

Code	Size	Packaging	Notes
505766	50ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505767	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505768	100ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid

### Lead standard solution > RS-Standard for ICP

RS

Code	Size	Packaging	Notes
503801	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503805	100ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
503803	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503807	500ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

### Lead standard solution > RS-Standard for AAS

RS

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

Code	Size	Packaging	Notes
E497595	100ml	Glass bottle	conc. 1.000 ppm Matrix : Nitric acid
E497591	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

### 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	Normex	Plastic ampoule	conc. 1.000 ppm Matrix : Nitric acid

► **Lead standard solution >**  
RS-Quality control standard solution for AAS (graphite furnace)

Code	Size	Packaging	Notes
504364	50ml	Glass bottle	conc. 10 +/- 1 µg/L Matrix : 2% Nitric acid

## Lead

Pb  
Molecular Weight 207,2  
CAS : 7439-92-1  
EEC-N : 231-100-4



**Danger**

3.7/1A; H360-3.9/2; H373-3.1.0/4; H302-3.1.1/4; H332-A26  
P260-P261-P271-P304+P340-P405-P501a

► **Lead > RPE-For analysis**

RPE

Description.....Grey foil Identification.....Positive Assay.....99 - 100 %

Code	Size	Packaging	Notes
468866	500g	Bag	

~ 0.7 mm thickness.

## Lead (II) acetate basic

~(CH<sub>3</sub>COO)<sub>2</sub>Pb.Pb(OH)  
Molecular Weight 556,48  
CAS : 1335-32-6  
EEC-N : 215-630-3

**Classification transport**  
ONU: 1616



**Danger**

3.7/1A; H360Df-3.6/2; H351-3.9/2; H373-4.1.A/1; H400-4.1.C/1; H410-A26  
P260-P281-P308+P313-P314-P405-P501a

► **Lead (II) acetate basic > RPE-For analysis-ACS**

RPE

Description.....White powder Insol.in dil.acetic ac. ....<=200 ppm Cu .....<=20 ppm Assay (alkalimetric).....>=33.0 % PbO  
Identification.....Positive Chloride .....<=30 ppm Fe.....<=20 ppm  
Loss on drying .....<=1.5 % Nitrate-nitrite (NO<sub>3</sub>) .....<=30 ppm K.....<= 200 ppm  
Water-insoluble matter .....<=1.0 % Ca .....<= 100 ppm Na.....<= 500 ppm

Code	Size	Packaging	Notes
468985	250g	Plastic bottle	
468987	1kg	Plastic bottle	

## Lead (II) acetate basic solution

Pb(CH<sub>3</sub>COO)<sub>2</sub>Pb(OH)<sub>2</sub>  
CAS : 1335-32-6

**Classification transport**  
ONU: 3082  
Transport Hazard class: 9  
Packing group III



**Danger**

3.7/1A; H360Df-3.6/2; H351-3.9/2; H373-4.1.A/1; H400-4.1.C/1; H410-A26  
P260-P281-P308+P313-P314-P405-P501a

► **Lead (II) acetate basic solution > RS-For analysis according to Ph. Eur. Chap. 4.1.1**

RS

Code	Size	Packaging	Notes
611048400	100ml	Bottle	Ref Ph.Eur 1048400

## Lead (II) acetate solution 5%

Pb(CH<sub>3</sub>COO)<sub>2</sub>.3H<sub>2</sub>O  
CAS : 6080-56-4

**Classification transport**  
ONU: 3082  
Transport Hazard class: 9  
Packing group III



**Danger**

3.7/1A; H360Df-3.9/2; H373-4.1.C/2; H411-EUH201-A26  
P260-P281-P308+P313-P314-P405-P501a

► **Lead (II) acetate solution 5% > RPE-For analysis**

RPE

Description.....Clear colourless liquid Identification.....Positive Density at 20° C.....>=1.03

Code	Size	Packaging	Notes
E468951	1l	Plastic bottle	

## Lead (II) acetate cotton

Synonym : Lead tetraacetate

## Classification transport

ONU: 3082  
 Transport Hazard class: 9  
 Packing group III



## Danger

3.7/1A; H360-4.1.C/2; H411-EUH201-A26  
 P281-P273-P308+P313-P391-P405-P501a

Lead (II) acetate cotton &gt; RS-For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611048101	10g	Bottle	Ref Ph.Eur 1048101

## Lead (II) acetate paper

## Classification transport

ONU: 3082  
 Transport Hazard class: 9  
 Packing group III



## Danger

3.7/1A; H360-4.1.C/2; H411-EUH201-A26  
 P281-P273-P308+P313-P391-P405-P501a

Lead (II) acetate paper &gt; RS-For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611048102	50pc	Box	Ref Ph.Eur 1048102

## Lead (II) acetate solution 95 g/l

## Classification transport

ONU: 3082



## Danger

3.7/1A; H360Df-3.9/2; H373-4.1.C/2; H411-EUH201-A26  
 P260-P281-P308+P313-P314-P405-P501a

Lead (II) acetate solution 95 g/l &gt; RS-For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611048103	100ml	Bottle	Ref Ph.Eur 1048103

## Lead (II) acetate trihydrate

$C_4H_6O_4 \cdot Pb_3 \cdot 3H_2O$   
 Molecular Weight 379,33  
 CAS : 6080-56-4

## Classification transport

ONU: 1616  
 Transport Hazard class: 6.1  
 Packing group III



## Danger

3.7/1A; H360Df-3.9/2; H373-4.1.A/1; H400-4.1.C/1; H410-3.1.O/4; H302-3.1.I/4; H332-EUH201-A26  
 P260-P261-P271-P304+P340-P405-P501a

Lead (II) acetate trihydrate &gt; RPE-For analysis-ACS-Reag.Ph.Eur.-Reag.USP

RPE

Description.....	White crystals	Nitrate-nitrite (NO3).....	<=50 ppm	Ca.....	<=50 ppm
Identification.....	Positive	Cu.....	<=20 ppm	K.....	<=50 ppm
Diluted acetic acid insoluble matter.....	<=100 ppm	Fe.....	<=10 ppm	Na.....	<=100 ppm
Chloride.....	<=5 ppm	Assay (complexometric).....	99.0 - 103.0 %		

Code	Size	Packaging	Notes
468935	250g	Plastic bottle	
468937	1kg	Plastic bottle	
468932	25kg	Drum	

## ▶ Lead (II) acetate trihydrate &gt; RE-Pure

Description.....White crystals Fe.....<= 20 ppm Assay (complexometric).....>= 99.5 %  
 Identification.....Positive Zn.....<= 50 ppm

Code	Size	Packaging	Notes
357259	5kg	Plastic bottle	
357253	25kg	Fibre drum	

## ▶ Lead (II) carbonate basic

(PbCO<sub>3</sub>)<sub>2</sub> Pb(OH)<sub>2</sub>  
 Molecular Weight 775,63  
 CAS : 1319-46-6  
 EEC-N : 215-290-6

**Classification transport**  
 ONU: 2291  
 Transport Hazard class: 6.1  
 Packing group III

 **Danger**  
 3.7/1A; H360Df-3.9/2; H373-4.1.A/1; H400-4.1.C/1; H410-3.1.O/4; H302-3.1.I/4; H332-EUH201-A26  
 P260-P261-P271-P304+P340-P405-P501a

## ▶ Lead (II) carbonate basic &gt; RPE-For analysis-ACS

Description.....White powder Cd.....<= 20 ppm Ca.....<= 100 ppm  
 Identification.....Positive Fe.....<= 50 ppm K.....<= 0.02 %  
 Chloride.....<= 20 ppm Zn.....<= 30 ppm Na.....<= 0.05 %  
 Nitrate-nitrite (NO<sub>3</sub>).....<= 50 ppm Diluted acetic acid insoluble matter.....<= 0.02 % Assay.....77 - 80 %

Code	Size	Packaging	Notes
469155	250g	Plastic bottle	
469157	1kg	Plastic bottle	

## ▶ Lead (II) nitrate

Pb(NO<sub>3</sub>)<sub>2</sub>  
 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**  
 3.7/1A; H360Df-3.9/2; H373-4.1.A/1; H400-4.1.C/1; H410-3.1.O/4; H302-3.1.I/4; H332-EUH201-A26  
 P260-P261-P271-P304+P340-P405-P501a

## ▶ Lead (II) nitrate &gt; RPE-For analysis-ACS-Reag.Ph.Eur.-Reag.USB

Description.....White crystals Ca.....<= 50 ppm K.....<= 50 ppm  
 Identification.....Positive Fe.....<= 20 ppm Na.....<= 0.02 %  
 Dil. HNO<sub>3</sub>-insol. matter.....<= 50 ppm Cu.....<= 10 ppm  
 Chloride.....<= 10 ppm Assay (complexometric).....>= 99.0 %


Code	Size	Packaging	Notes
469356	500g	Plastic bottle	
469357	1kg	Plastic bottle	
469353	25kg	Fibre drum	

## ▶ Lead (II) nitrate &gt; RE-Pure

Description.....White crystals Chloride.....<= 50 ppm Fe.....<= 10 ppm  
 Identification.....Positive pH solution 7.5%.....3 - 4 Assay (complexometric).....>= 98.0 %  
 Dil. HNO<sub>3</sub>-insol. matter.....<= 0.005 % Cu.....<= 20 ppm

Code	Size	Packaging	Notes
358007	1kg	Plastic bottle	

## ▶ Lead (II) nitrate 0.05 mol/l

 **Danger**  
 3.7/1A; H360D-3.9/2; H373-4.1.C/3; H412-EUH201-A26  
 P260-P281-P308+P313-P314-P405-P501a

## ▶ Lead (II) nitrate 0.05 mol/l &gt; RS-For analysis according to Ph. Eur. Chap. 4.2.2

Code	Size	Packaging	Notes
613009700	100ml	Bottle	Ref Ph.Eur 3009700

# LEA

## Lead (II) nitrate 0.1 mol/l



**Danger**

3.7/1A; H360Df-3.9/2; H373-4.1.C/2; H411-EUH201-A26  
P260-P281-P308+P313-P314-P405-P501a

### Lead (II) nitrate 0.1 mol/l > RS-For analysis according to Ph. Eur. Chap. 4.2.2

RS

Code	Size	Packaging	Notes
613003101	500ml	Bottle	Ref Ph.Eur 3003100
613003100	1l	Bottle	Ref Ph.Eur 3003100

## Lead (II) nitrate solution 33 g/l

### Classification transport

ONU: 1935  
Transport Hazard class: 9  
Packing group II



**Danger**

3.7/1A; H360Df-3.9/2; H373-4.1.C/2; H411-EUH201-A26  
P260-P281-P308+P313-P314-P405-P501a

### Lead (II) nitrate solution 33 g/l > RS-For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611048301	1l	Bottle	Ref Ph.Eur 1048301

## Lead (II) oxide

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**

3.7/1A; H360Df-3.9/2; H373-4.1.A/1; H400-4.1.C/1; H410-3.1.O/4; H302-3.1.I/4; H332-EUH201-A26  
P260-P261-P271-P304+P340-P405-P501a

### Lead (II) oxide > RPE-For analysis

RPE

Description .....Yellow or orange powder Insoluble in Acetic ac. ....<= 200 ppm Ca.....<= 50 ppm K.....<= 50 ppm  
Identification.....Positive Nitrate.....<= 100 ppm Cu.....<= 50 ppm Na.....<= 0.02 %  
Chloride.....<= 20 ppm Ag.....<= 5 ppm Fe.....<= 20 ppm Assay (complexometric).....>= 99.0 %

Code	Size	Packaging	Notes
469404	100g	Glass bottle	

### Lead (II) oxide > RE-Pure

RE

Description .....Yellow powder Identification.....Positive Assay.....>= 99.8 %

Code	Size	Packaging	Notes
358257	1kg	Plastic bottle	
358259	5kg	Plastic bottle	
358252	25kg	Drum	

## Lead (II) sulfate

PbSO<sub>4</sub>  
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**

3.7/1A; H360Df-3.9/2; H373-4.1.A/1; H400-4.1.C/1; H410-3.1.O/4; H302-3.1.I/4; H332-EUH201-A26  
P260-P261-P271-P304+P340-P405-P501a

### Lead (II) sulfate > RPE-For analysis

RPE

Description .....White powder Insol.in Ammonium acet. ....<=500 ppm Na.....<=0.1 %  
Identification.....Positive Nitrate.....Conform Assay (complexometric).....>=99.0 %  
Loss on ignition.....<=0.5 % Fe.....<=20 ppm  
Chloride.....<=20 ppm K.....<=500 ppm

Code	Size	Packaging	Notes
469505	250g	Plastic bottle	



## Lead (IV) oxide

Synonym : Lead peroxide

PbO<sub>2</sub>  
Molecular Weight 239,19  
CAS : 1309-60-0  
EEC-N : 215-174-5

## Classification transport

ONU: 1872  
Transport Hazard class: 5.1  
Packing group III



Danger

3.7/1A; H360Df-3.9/2; H373-4.1.A/1; H400-4.1.C/1; H410-3.1.O/4; H302-3.1.I/4; H332-EUH201-A26  
P260-P261-P271-P304+P340-P405-P501a

## Lead (IV) oxide &gt; RPE-For analysis

RPE

Description .....Blackish powder Sulphate .....<= 0.1 % Loss on drying .....<= 0.5 %  
Identification.....Positive HNO<sub>3</sub>-insoluble matter .....<= 0.05 % Mn .....<= 20 ppm  
Chloride .....<= 200 ppm Substances not ppt. H<sub>2</sub>S .....<= 0.05 % Assay (oxidimetric) .....>= 97.0 %

Code	Size	Packaging	Notes
469055	250g	Plastic bottle	
469057	1kg	Plastic bottle	

## Lead (IV) oxide &gt; RE-Pure

RE

Description.....Black powder Identification.....Positive Assay (oxidimetric) .....90 - 100 %

Code	Size	Packaging	Notes
357456	500g	Plastic bottle	

## Lecithin of soya

Molecular Weight 750  
CAS : 8002-43-5  
EEC-N : 232-307-2

## Lecithin of soya &gt; RE-Pure

RE

Description .....Yellow granules Acidity index .....< 35 mg KOH/g Assay (phospholipids as acetone insolubl .....> 97 %  
Identification.....Positive Peroxide value .....< 3 meq O<sub>2</sub>/Kg  
Water .....< 1 % Insolubles in toluene .....< 0.1 %

Code	Size	Packaging	Notes
348754	1kg	Plastic bottle	

## L(+)-Leucine

(CH<sub>3</sub>)<sub>2</sub>CHCH<sub>2</sub>CHNH<sub>2</sub>COOH  
Molecular Weight 131,18  
CAS : 61-90-5  
EEC-N : 200-522-0

## L(+)-Leucine &gt; RPE-For analysis

RPE

Description.....White crystals Chloride .....<=250 ppm Tryptophan.....<=300 ppm  
Identification.....Positive Total phosphorus .....<=10 ppm Total sulphur .....<=250 ppm  
Specific optical rotation .....+15.1 - +16.1 ° Heavy metals (Pb) .....<=10 ppm Fe.....<=10 ppm  
Loss on drying .....<=0.1 % Residue on ignition .....<=500 ppm Assay (non-aqueous medium) .....>=99 %  
Ammonium .....<=50 ppm Tyrosine.....<=200 ppm

Code	Size	Packaging	Notes
457928	5g	Glass bottle	

## Light green

C<sub>37</sub>H<sub>34</sub>N<sub>2</sub>Na<sub>2</sub>O<sub>9</sub>S<sub>3</sub>  
Molecular Weight 792,86  
CAS : 5141-20-8  
EEC-N : 225-906-5



Warning

3.1.D/4; H312-3.1.I/4; H332  
P261-P271-P280-P304+P340-P312-P501a

## Light green &gt; 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	10g	Glass bottle	

*Dye for botanical-bacteriology-cytology.*

## Linalol

CAS : 78-70-6  
EEC-N : 201-134-4

### Linalol > RE-Pure-For synthesis

RE

Refractive index at 20°C .....1.461 - 1.465 Assay (GC).....>= 96 % Colour .....<= 10 Hazen

Code	Size	Packaging	Notes
P9550276	250ml	Glass bottle	

## Lithium standard solution

### Lithium standard solution > RS-Standard for ICP-MS

RS

Code	Size	Packaging	Notes
505701	50ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505702	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505705	100ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid

### Lithium standard solution > RS-Standard for ICP

RS

Code	Size	Packaging	Notes
503691	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
503695	100ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrochloric acid
503693	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
503697	500ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrochloric acid

### Lithium standard solution > RS-Standard for AAS

RS

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

Code	Size	Packaging	Notes
E497525	100ml	Glass bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
E497521	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid

### 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	Normex	Plastic ampoule	conc. 1.000 ppm Matrix : Nitric acid

### Lithium standard solution > RS-Standard for ionic chromatography

RS

Code	Size	Packaging	Notes
503280	50ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503281	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503282	250ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503283	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Water

## Lithium carbonate

Li2CO3  
Molecular Weight 73,89  
CAS : 554-13-2  
EEC-N : 209-062-5



### Warning

3.1.0/4; H302-3.3/2; H319  
P280-P305+P351+P338-P330-P337+P313-P301+P312-P501a

### Lithium carbonate > RPE-For analysis-ACS

RPE

Description.....White powder Diluted HCl-ins. matter.....<= 100 ppm Total sulphur.....<= 0.2 % K.....<= 100 ppm  
Identification.....Positive Heavy metals (Pb).....<= 20 ppm Ca.....<= 100 ppm Assay (alkalimetric).....>= 99.0 %  
Chloride.....<= 50 ppm Nitrate.....<= 5 ppm Fe.....<= 20 ppm Na.....<= 0.1 %

Code	Size	Packaging	Notes
458204	100g	Plastic bottle	
458207	1kg	Plastic bottle	

## ▶ Lithium carbonate &gt; RE-Pure

Description .....White powder  
 Identification.....Positive  
 Chloride.....<=300 ppm  
 Diluted HCl-ins. matter.....<=500 ppm  
 Sulphate.....<=0.2 %  
 Fe.....<=30 ppm  
 Assay (non-aqueous medium).....>=98 %

Code	Size	Packaging	Notes
348955	250g	Plastic bottle	
348957	1kg	Plastic bottle	

## Lithium chloride

LiCl  
 Molecular Weight 42,39  
 CAS : 7447-41-8  
 EEC-N : 231-212-3



## Warning

3.1.0/4; H302-3.2/2; H315-3.3/2; H319  
 P280-P305+P351+P338-P330-P332+P313-P337+P313-P501a

## ▶ Lithium chloride &gt; RPE-For analysis-ACS

Description .....White crystalline powder  
 Identification.....Positive  
 Alkalinity.....<= 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	100g	Glass bottle	
458256	500g	Plastic bottle	

## ▶ Lithium chloride &gt; RE-Pure

Description .....White crystalline powder  
 Identification.....Positive  
 K + Na.....<= 0.50 %  
 Humidity (H<sub>2</sub>O).....<= 0.8 %  
 Sulphate.....<= 500 ppm  
 Fe.....<= 20 ppm  
 Assay (argentimetric).....>= 99 %

Code	Size	Packaging	Notes
458271	250g	Plastic bottle	
458272	1kg	Plastic bottle	
458273	25kg	Drum	

## Lithium hydride

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

2.12/1; H260-3.2/1B; H314  
 P231+P232-P260-P304+P340-P305+P351+P338-P405-P501a

## ▶ Lithium hydride &gt; RE-Pure

Description .....Powder white gray  
 Identification.....Positive  
 Assay (gas volumetric).....>=95 %

Code	Size	Packaging	Notes
458303	50g	Glass bottle	

## Lithium hydroxide anhydrous

LiOH  
 Molecular Weight 23,95  
 CAS : 1310-65-2  
 EEC-N : 215-183-4

## Classification transport

ONU: 3262  
 Transport Hazard class: 8  
 Packing group II



## Danger

3.1.1/3; H331-3.2/1A; H314  
 P260-P261-P304+P340-P305+P351+P338-P405-P501a

## ▶ Lithium hydroxide anhydrous &gt; RPE-For analysis

Description .....White crystalline 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	250g	Glass bottle	

## Lithium hydroxide monohydrate

LiOH.H<sub>2</sub>O  
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**  
3.2/1A; H314-3.1.O/4; H302  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

## Lithium hydroxide monohydrate &gt; RPE-For analysis

RPE

Description .....White cryst. powder  
Identification.....Positive  
Carbonate.....<=1 %  
Chloride .....<=200 ppm  
Heavy metals (Pb).....<=30 ppm  
Sulphate.....<=500 ppm  
Ca.....<=200 ppm  
Fe.....<=10 ppm  
K.....<=100 ppm  
Mg .....<=50 ppm  
Na.....<=100 ppm  
Assay (acidimetric) .....>=98 %

Code	Size	Packaging	Notes
458292	1kg	Plastic bottle	

## Lithium methoxide 0.1 mol/l (0.1N)

CH<sub>3</sub>LiO  
Molecular Weight 38,02  
CAS : 865-34-9

**Classification transport**  
ONU: 1992  
Transport Hazard class: 3  
Packing group II



**Danger**  
2.6/2; H225-3.8/1; H370-H336-3.7/2; H361d-3.9/2; H332-3.2/1C; H314-3.1.D/4; H312  
P210-P241-P304+P340-P305+P351+P338-P307+P311-P403+P235-P405-P501a

## Lithium methoxide 0.1 mol/l (0.1N) &gt; RPE-For analysis

RPE

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

Code	Size	Packaging	Notes
E458321	500ml	Glass bottle	

*Toluene solution ready-to-use : 0.1N*

## Lithium nitrate

LiNO<sub>3</sub>  
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**  
2.14/2; H272  
P210-P221-P280-P220-P370+P378a-P501a

## Lithium nitrate &gt; RPE-For analysis

RPE

Description .....White crystalline powder  
Identification.....Positive  
Water .....<= 1 %  
Alcalinity .....<= 0.05 %  
Chloride .....<= 100 ppm  
Sulphate .....<= 500 ppm  
Fe<sub>2</sub>O<sub>3</sub>.....<= 50 ppm  
Assay .....>= 99.0 %

Code	Size	Packaging	Notes
458355	250g	Plastic bottle	

## Lithium sulfate monohydrate

Li<sub>2</sub>SO<sub>4</sub>.H<sub>2</sub>O  
Molecular Weight 127.95  
CAS : 10102-25-7  
EEC-N : 233-802-4



**Warning**  
3.1.O/4; H302  
P264-P270-P330-P301+P312-P501a

## Lithium sulfate monohydrate &gt; 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	100g	Plastic bottle	

## Lithium tetraborate anhydrous

$\text{Li}_2\text{B}_4\text{O}_7$   
Molecular Weight 169,12  
CAS : 12007-60-2  
EEC-N : 234-514-3



Warning

3.2/2; H315-3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

## Lithium tetraborate anhydrous &gt; RE-Pure

RE

Description .....White powder Identification.....Positive Assay .....>= 98 %

Code	Size	Packaging	Notes
458163	1kg	Plastic bottle	

## Litmus

Molecular Weight 3300  
CAS : 1393-92-6  
EEC-N : 215-739-6

## Litmus &gt; RPE-For analysis

RPE

Description .....Dark blue granules Colour change.....Red - blue  
Identification.....Positive pH range.....4.8 - 8.3

Code	Size	Packaging	Notes
489054	100g	Plastic bottle	

Acid-base indicator (pH 4.5 ÷ 8.3).

## Litmus paper

## Litmus paper &gt; RS-For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611049301	50pc		Ref Ph.Eur 1049301

## Litmus paper &gt; RS-For pHmetry

RS

Code	Size	Packaging	Notes
435260000	1 roll		Blue litmus paper, Color change : Blue → red, change pH 8.0 - 5.0
435300000	1 roll		Neutral litmus paper, Color change : red ← purple → Blue, Change pH 5.0 - 8.0
435340000	1 roll		Red litmus paper, Color change : red → Blue, Change pH 5.0 - 8.0

Roll dispenser 5 m by 7 mm.

## Lugol concentrated solution



Danger

3.4.F/1; H334-3.4.S/1; H317  
P261-P280-P285-P342+P311-P363-P501a

## Lugol concentrated solution &gt; RS-For microscopy

RS

Description .....Red-brown clear liquid Identification.....Positive Assay as iodine (oxidimetric) .....4.9 - 5.1 % (p/v)

Code	Size	Packaging	Notes
458741	1l	Bottle	

# LUG

## Lugol solution in water

### Lugol solution in water > RS-For microscopy

RS

Description .....Brown clear liquid Identification.....Positive Assay.....0.85 - 0.95 %p/p (I2)

Code	Size	Packaging	Notes
458751	250ml	Plastic bottle	

Dye for bacteriology for Gram-Hucker kit. Contains phenol and lactic acid.

## Lugol's iodine



**Danger**

3.4.R/1; H334-3.4.S/1; H317  
P261-P280-P285-P342+P311-P363-P501a

### Lugol's iodine > RS-For microscopy

RS

Description .....Brown clear liquid Identification.....Positive Assay as iodine (oxidimetric) .....1.9 - 2.1 % p/v

Code	Size	Packaging	Notes
E458761	6x250ml	Glass bottle	
E458764	6x1l	Glass bottle	

Dye for bacteriology.

## Luminol

Synonym : 3-Aminophthalhydrazide

$C_8H_7N_3O_2$   
Molecular Weight 177,17  
CAS : 521-31-3  
EEC-N : 208-309-4



**Warning**

3.1.O/4; H302-3.1.I/4; H332  
P261-P271-P304+P340-P312-P330-P501a

### Luminol > RPE-For analysis

RPE

Description .....Powder-green giallog. Identification.....Positive Assay (acidimetric) .....97.5 - 102.5 %

Code	Size	Packaging	Notes
458772	25g	Glass bottle	

For chemiluminescence.

## Lutetium standard solution

### Lutetium standard solution > RS-Standard for ICP-MS

RS

Code	Size	Packaging	Notes
505706	50ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505707	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505708	100ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid

### Lutetium standard solution > RS-Standard for ICP

RS

Code	Size	Packaging	Notes
503611	100ml	Plastic bottle	
503615	100ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
503613	500ml	Plastic bottle	
503617	500ml	Plastic bottle	

**L(+)-Lysine monohydrochloride**

C<sub>6</sub>H<sub>14</sub>N<sub>2</sub>O<sub>2</sub>.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	25g	Glass bottle	
458124	100g	Plastic bottle	
458121	5kg	Plastic bottle	

**Magnesium standard solution**

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

**RS**

Code	Size	Packaging	Notes
615001801	100ml	Bottle	A 10 ppm solution : to dilute according to Ref Ph.Eur 5001801
615001802	100ml	Bottle	A 10 ppm solution : to dilute according to Ref Ph.Eur 5001802
615001803	100ml	Bottle	A 0.1 % solution Ref Ph.Eur 5001803
615001809	100ml	Bottle	A 100 ppm solution : to dilute according to Ref Ph.Eur 5001800

**Magnesium standard solution > RS-Standard for ICP-MS**

**RS**

Code	Size	Packaging	Notes
505711	50ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505712	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505715	100ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid

**Magnesium standard solution > RS-Standard for ICP**

**RS**

Code	Size	Packaging	Notes
503711	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503715	100ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
503713	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503717	500ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

**Magnesium standard solution > RS-Standard for AAS**

**RS**

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

Code	Size	Packaging	Notes
E497535	100ml	Glass bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
E497531	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid

**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	Normex	Plastic ampoule	conc. 1.000 ppm Matrix : Nitric acid

Product specifications are subject to changes.  
 Please visit our website for updates.

## Magnesium standard solution > RS-Standard for ionic chromatography


RS

Code	Size	Packaging	Notes
503290	50ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503291	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503292	250ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503293	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Water

## Magnesium, powder

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**  
2.10/1; H250-2.12/1; H260  
P210-P222-P231+P232-P335+P334-P422a-P501a

## Magnesium, powder > RPE-For analysis

RPE


Description.....Grey powder Identification.....Positive Assay (AAS/ICP) .....>= 99 % (Mg)

Code	Size	Packaging	Notes
459066	500g	Metal bucket	

## Magnesium, ribbon

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**  
2.10/1; H250-2.12/1; H260  
P210-P222-P231+P232-P335+P334-P422a-P501a

## Magnesium, ribbon > RPE-For analysis

RPE

Description.....Ribbon Identification.....Positive Assay .....>= 99 %


Code	Size	Packaging	Notes
459044	100g	Bag	

Size ~ 0.2 x 3 mm.

## Magnesium, turnings

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**  
2.10/1; H250-2.12/1; H260  
P210-P222-P231+P232-P335+P334-P422a-P501a

## Magnesium, turnings > RPE-For analysis

RPE

Description.....Silvery turnings Other metals .....<= 0,10 %  
Identification.....Positive Assay .....>= 99,80 % (Mg)

Code	Size	Packaging	Notes
459085	250g	Metal bucket	
459082	25kg	Drum	

According to Grignard.



## Magnesium acetate tetrahydrate

Mg(CH<sub>3</sub>COO)<sub>2</sub>·4H<sub>2</sub>O  
 Molecular Weight 214,46  
 CAS : 16674-78-5  
 EEC-N : 205-554-9

## Magnesium acetate tetrahydrate &gt; RPE-For analysis-ACS-Reag.Ph.Eur.-Reag.USP

RPE

Description .....White crystalline powder Sulphate.....<= 50 ppm Fe.....<= 5 ppm Sr .....<= 50 ppm  
 Identification.....Positive Heavy metals (Pb) .....<= 50 ppm K.....<= 50 ppm Assay (complexometric).....98.0 - 102.0 %  
 Water-insoluble matter .....<= 50 ppm Ba .....<= 10 ppm Mn .....<= 10 ppm  
 Chloride .....<= 10 ppm Ca .....<= 100 ppm Na .....<= 50 ppm

Code	Size	Packaging	Notes
459135	250g	Plastic bottle	
459137	1kg	Plastic bottle	
459131	25kg	Bag	

## Magnesium carbonate basic

Synonym : Magnesium hydroxide carbonate

(MgCO<sub>3</sub>)<sub>4</sub>·Mg(OH)<sub>2</sub>·5H<sub>2</sub>O  
 Molecular Weight 485,69  
 CAS : 39409-82-0  
 EEC-N : 235-192-7

## Magnesium carbonate basic &gt; RPE-For analysis

RPE

Description .....White powder Heavy metals (Pb) .....<=10 ppm Ba .....<=30 ppm  
 Identification.....Positive Nitrate .....<=30 ppm Ca .....<=500 ppm  
 Chloride .....<=50 ppm Sulphate .....<=200 ppm Fe.....<=50 ppm  
 Phosphate .....<=10 ppm Water solubility .....<=0.5 % Assay (complexometric) .....40.0 - 45.0 % (MgO)  
 HCl-insoluble matter .....<=200 ppm As .....<=1 ppm

Code	Size	Packaging	Notes
459285	250g	Plastic bottle	
459287	1kg	Plastic bottle	

## Magnesium carbonate basic &gt; 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	1kg	Plastic bottle	
349251	15kg	Bag	

Light powder.

## Magnesium carbonate basic &gt; ERBAPharm-According to pharmacopoeia: USP

ERBAPharm

Description .....White powder Soluble salts.....<=1.0 % Fe.....<=0.02 %  
 Identification.....Positive Acid not soluble matter .....<=0.05 % Assay (Mg oxide) .....40.0 - 43.5 %  
 Apparent density .....400 - 500 g/l As .....<=4 ppm Escherichia coli .....Absent  
 Heavy metals (Pb) .....<=30 ppm Ca .....<=0.45 %

Code	Size	Packaging	Notes
349279	5kg	Plastic bottle	
349272	25kg	Plastic bucket	

Heavy powder.

Product specifications are subject to changes.  
 Please visit our website for updates.

## Magnesium chloride hexahydrate

MgCl<sub>2</sub>·6H<sub>2</sub>O  
Molecular Weight 203,31  
CAS : 7791-18-6  
EEC-N : 232-094-6

## Magnesium chloride hexahydrate &gt; 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  
Appearance of solution.....Conform Ph.Eur. Bromide.....<=500 ppm Sr.....<=50 ppm  
Water-insoluble matter.....<=50 ppm Sulphate.....<=20 ppm Fe.....<=5 ppm  
Ammonium.....<=20 ppm Heavy metals (Pb).....<=5 ppm K.....<=50 ppm Assay (complexometric).....99.0 - 102.0 %

Code	Size	Packaging	Notes
459337	1kg	Plastic bottle	
459331	5kg	Plastic bottle	
459332	25kg	Drum	
459334	50kg	Fibre drum	

## Magnesium chloride hexahydrate &gt; ERBAPharm-According to pharmacopoeia: Ph.Eur.-USP-FU-Ph.Franc.-BP

ERBAPharm

Description.....Colourless hygroscopic crystals Water (K.F.).....51.0 - 55.0 % Ca.....<=100 ppm  
Identification.....Positive Heavy metals (Pb).....<=10 ppm Fe.....<=10 ppm  
Appearance of solution.....Conform Ph.Eur. Bromide.....<=500 ppm Assay (complexometric).....98.0 - 101.0 %  
Acidity or alkalinity.....Conform Ph.Eur. Sulphate.....<=50 ppm Origin (BSE/TSE).....Synthesis  
Ba.....Conform USP-NF Not soluble matter.....<=50 ppm Residual solvents (CPMP/ICH/283/95).....Conform  
K.....Conform USP-NF Al.....<=1 ppm  
pH solution 5%.....4.5 - 7.0 As.....<=2 ppm

Code	Size	Packaging	Notes
349357	1kg	Plastic bottle	
349359	5kg	Plastic bottle	
349355	25kg	Bag	

## Magnesium chloride hexahydrate &gt; RE-Pure

RE

Description.....White crystalline powder Sulphate.....<= 100 ppm Ca.....<= 1000 ppm Na.....<= 5000 ppm  
Identification.....Positive As.....<= 2 ppm Cu.....<= 10 ppm Pb.....<= 10 ppm  
Acidity (HCl).....<= 0.02 % Al.....<= 1 ppm Fe.....<= 5 ppm Zn.....<= 10 ppm  
Ammonium.....<= 50 ppm Ba.....<= 20 ppm K.....<= 3000 ppm Assay (complexometric).....98.5 - 101.5 %

Code	Size	Packaging	Notes
349377	1kg	Plastic bottle	
349372	25kg	Drum	

Magnesium dihydrogen phosphate trihydrate *Synonym : Magnesium phosphate monobasic*

Mg(H<sub>2</sub>PO<sub>4</sub>)<sub>2</sub>·3H<sub>2</sub>O  
Molecular Weight 272,33  
CAS : 13092-66-5  
EEC-N : 236-004-6

## Magnesium dihydrogen phosphate trihydrate &gt; RPE-For analysis

RPE

Description.....White powder Heavy metals (Pb).....<=10 ppm Ba.....<=50 ppm K.....<=100 ppm  
Identification.....Positive Nitrate.....<=15 ppm Ca.....<=100 ppm Na.....<=100 ppm  
Chloride.....<=10 ppm Sulphate.....<=40 ppm Cu.....<=5 ppm Pb.....<=5 ppm  
Water-insoluble matter.....<=100 ppm As.....<=1 ppm Fe.....<=10 ppm Assay (complexometric).....>=97 %

Code	Size	Packaging	Notes
459385	250g	Plastic bottle	

## Magnesium glycerophosphate

C<sub>3</sub>H<sub>7</sub>O<sub>2</sub>PO<sub>4</sub>Mg  
 Molecular Weight 194,36  
 CAS : 927-20-8  
 EEC-N : 231-149-3

## Magnesium glycerophosphate &gt; RE-Pure

RE

Description .....White crystalline powder Glycerol-Alc.sol.impur. ....<= 2 % Assay .....>= 98 %  
 Identification.....Positive Heavy metals (Pb).....<= 10 ppm  
 Residue on calcination.....47 - 52 % As .....<= 4 ppm

Code	Size	Packaging	Notes
349407	1kg	Plastic bottle	

Magnesium hydrogen phosphate trihydrate *Synonym : Magnesium phosphate dibasic*

MgHPO<sub>4</sub>·3H<sub>2</sub>O  
 Molecular Weight 174,34  
 CAS : 7782-75-4

## Magnesium hydrogen phosphate trihydrate &gt; RPE-For analysis

RPE

Description .....White powder Sulphate .....<= 60 ppm Ni .....<= 50 ppm  
 Identification.....Positive As .....<= 1 ppm Pb .....<= 50 ppm  
 Chloride .....<= 100 ppm Cu .....<= 50 ppm Assay (complexometric).....97 - 100 %  
 HCl-insoluble matter .....<= 500 ppm Fe.....<= 50 ppm

Code	Size	Packaging	Notes
459435	250g	Plastic bottle	
459437	1kg	Plastic bottle	

## Magnesium hydroxide

Mg(OH)<sub>2</sub>  
 Molecular Weight 58,33  
 CAS : 1309-42-8  
 EEC-N : 215-170-3



## Warning

3.2/2; H315-3.3/2; H319-3.8/3; H335  
 P261-P271-P304+P340-P305+P351+P338-P405-P501a

M

Magnesium hydroxide >  
 ERBAPharm-According to pharmacopoeia: BP-FU-Ph.Eur.-Ph.Franc.

ERBAPharm

Description.....White powder Chloride .....<= 0.1 % Acet.ac.not soluble ma. ....<= 0.1 % Assay (complexometric).....95.0 - 100.5 %  
 Identification.....Positive Heavy metals (Pb) .....<= 30 ppm As.....<= 4 ppm  
 Appearance of solution.....Conform Ph.Eur. Sulphate.....<= 0.5 % Ca .....<= 1.5 %  
 Loss on ignition.....29.0 - 32.5 % Soluble matter .....<= 2.0 % Fe.....<= 0.07 %

Code	Size	Packaging	Notes
349455	1kg	Plastic bottle	

## Magnesium nitrate hexahydrate

Mg(NO<sub>3</sub>)<sub>2</sub>·6H<sub>2</sub>O  
 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

2.14/2; H272-3.3/2; H319  
 P210-P221-P280-P305+P351+P338-P337+P313-P501a

## Magnesium nitrate hexahydrate &gt; RPE-For analysis-ACS-Reag.Ph.Eur.-Reag.USP

RPE

Description.....White crystals Chloride .....<= 10 ppm Ca .....<= 100 ppm Sr .....<= 50 ppm  
 Identification.....Positive Phosphate .....<= 5 ppm Fe.....<= 5 ppm Assay (complexometric).....98.0 - 102.0 %  
 pH sol. 5% at 25° C .....5.0 - 8.2 Sulphate.....<= 50 ppm K .....<= 50 ppm  
 Water-insoluble matter .....<= 50 ppm Heavy metals (Pb) .....<= 5 ppm Mn.....<= 5 ppm  
 Ammonium .....<= 30 ppm Ba .....<= 50 ppm Na.....<= 50 ppm

Code	Size	Packaging	Notes
459537	1kg	Plastic bottle	

## ► Magnesium nitrate hexahydrate > RE-Pure

RE

Description .....White or yellowish pellets Fe.....<= 10 ppm  
 Identification.....Positive Assay (complexometric).....>= 96 %

Code	Size	Packaging	Notes
349557	1kg	Plastic bottle	
349552	25kg	Drum	

## ► Magnesium nitrate 10 g/L solution

## ► Magnesium nitrate 10 g/L solution > RS-Matrix modifiers for AAS-GTA

RS

Code	Size	Packaging	Notes
503196	50ml	Bottle	Matrix : 1% Nitric acid

## ► Magnesium oxide

MgO  
 Molecular Weight 40,30  
 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	1kg	Plastic bottle	

## ► Magnesium oxide > RPE-For analysis

RPE

Description .....White powder Chloride .....<= 0.25 % Fe .....<= 400 ppm  
 Identification.....Positive Silicate .....<= 500 ppm Na .....<= 0.1 %  
 Loss on ignition.....<= 2 % Sulphat + sulphit (SO4).....<= 0.25 %  
 Assay (complexometric).....>= 99 % Ca.....<= 0.3 %

Code	Size	Packaging	Notes
459584	100g	Plastic bottle	
459586	500g	Plastic bottle	

## ► Magnesium oxide, heavy

MgO  
 Molecular Weight 40,30  
 CAS : 1309-48-4  
 EEC-N : 215-171-9

## ► Magnesium oxide, heavy > ERBAPharm-According to pharmacopoeia: Ph.Eur.

ERBAPharm


Description .....White powder Chloride .....<=0.1 % As .....<=4 ppm  
 Identification.....Positive Heavy metals (Pb).....<=30 ppm Ca.....<=1.5 %  
 Appearance of solution.....Conform Ph.Eur Sulphate .....<=1.0 % Fe.....<=0.07 %  
 Apparent density.....>=0.25 g/ml Soluble matter.....<=2.0 % Assay (complexometric).....98.0 - 100.5 % Calc.  
 Loss on ignition.....<=8.0 % Acet.ac.not soluble ma. ....<=0.1 %

Code	Size	Packaging	Notes
349655	1Kg	Plastic bottle	
349653	25kg	Plastic bucket	

## Magnesium perchlorate

Mg(ClO<sub>4</sub>)<sub>2</sub>  
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**  
2.14/2; H272-3.2/2; H315-3.3/2; H319-3.8/3; H335  
P210-P221-P304+P340-P305+P351+P338-P405-P501a

## Magnesium perchlorate &gt; RPE-For analysis

RPE


Description .....White granules Acidity(Perchloric ac.).....<=500 ppm Nitrate .....<=200 ppm  
Identification.....Positive Alkalinity(Mg oxide).....<=200 ppm Ca.....<=15 %  
Water (K.F.).....<=15 % Chloride .....<=100 ppm

Code	Size	Packaging	Notes
422254	100g	Glass bottle	
422251	250g	Glass bottle	

## Magnesium peroxide

MgO<sub>2</sub>  
Molecular Weight 56,30  
CAS : 14452-57-4  
EEC-N : 238-438-1

**Classification transport**  
ONU: 1476  
Transport Hazard class: 5.1  
Packing group II

 **Danger**  
2.13/2; H272  
P210-P221-P280-P220-P370+P378a-P501a

## Magnesium peroxide &gt; RE-Pure

RE

Description .....White powder Identification.....Positive Assay (oxidimetric) .....>=15 %

Code	Size	Packaging	Notes
349757	1kg	Plastic bottle	
349753	25kg	Metallic can	

## Magnesium phosphate tribasic

Mg<sub>3</sub>(PO<sub>4</sub>)<sub>2</sub>·8H<sub>2</sub>O  
Molecular Weight 406,98  
CAS : 13446-23-6  
EEC-N : 231-824-0

## Magnesium phosphate tribasic &gt; RPE-For analysis


RPE

Description .....White powder Ca .....<= 0.1 % Fe.....<= 50 ppm Pb .....<= 50 ppm  
Identification.....Positive Cd .....<= 50 ppm K .....<= 100 ppm Zn .....<= 50 ppm  
Chloride .....<= 100 ppm Co .....<= 50 ppm Na .....<= 0.2 % Assay (complexometric) .....>= 97.0 %  
Sulphate.....<= 500 ppm Cu .....<= 50 ppm Ni .....<= 50 ppm

Code	Size	Packaging	Notes
459485	250g	Plastic bottle	

## Magnesium stearate

[CH<sub>3</sub>(CH<sub>2</sub>)<sub>16</sub>CO<sub>2</sub>]<sub>2</sub>Mg  
Molecular Weight 591,27  
CAS : 557-04-0  
EEC-N : 209-150-3

 **Warning**  
3.2/2; H315-3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

Magnesium stearate >  
ERBAPharm-Vegetal origin-According to pharmacopoeia: Ph.Eur.-BP-FU-NF

ERBAPharm

Description.....White powder Stearic+Palmitic acid .....>= 90.0 % Pb .....<= 10 ppm Escherichia coli .....Absent  
Identification.....Positive Chloride .....<= 0.1 % Assay (magnesium) .....4.0 - 5.0 % s.s. Salmonella .....Absent  
Acidity or alkalinity.....Conform Ph.Eur. Sulphate.....<= 1.0 % Microbial tests .....  
Loss on drying .....<= 6.0 % Cd .....<= 3 ppm TAMC .....<= 1000 CFU/g  
Stearic acid .....>= 40.0 % Ni .....<= 5 ppm TYMC .....<= 100 CFU/g

Code	Size	Packaging	Notes
350032	2,5kg	Plastic bottle	
350035	25kg	Fibre drum	

# MAG

## Magnesium sulfate anhydrous

MgSO<sub>4</sub>  
Molecular Weight 120,36  
CAS : 7487-88-9  
EEC-N : 231-298-2

### Magnesium sulfate anhydrous > RE-Pure-For anhydrification

RE

Appearance.....White powder Water content.....<= 2 % m/m Bulk density .....1.300 - 1.500 g/ml  
Identification.....Conform Assay (on dry).....>= 98.0 %

Code	Size	Packaging	Notes
P1460012	1kg	Plastic bottle	
P1460027	5kg	Plastic bottle	
P1460044	25kg	Plastic bucket	
P1460057	50kg	Bag	

## Magnesium sulfate heptahydrate

MgSO<sub>4</sub>·7H<sub>2</sub>O  
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 Heavy metals (Pb).....<=5 ppm Assay (complexometric).....99.0 - 100.5 % s.s.  
Identification.....Positive Ca.....<=200 ppm Appearance of solution.....Conform  
pH sol. 5% at 25° C.....5.0 - 8.2 Fe.....<=5 ppm Acidity or alkalinity.....Conform  
Water-insoluble matter.....<=50 ppm K.....<=50 ppm Loss on drying.....48.0 - 52.0 %  
Ammonium.....<=20 ppm Mn.....<=5 ppm As.....<=2 ppm  
Chloride.....<=5 ppm Na.....<=50 ppm  
Nitrate.....<=20 ppm Sr.....<=50 ppm

Code	Size	Packaging	Notes
459667	1kg	Plastic bottle	
459669	5kg	Plastic bottle	
459662	25kg	Drum	

### Magnesium sulfate heptahydrate > ERBAPharm-According to pharmacopoeia: Ph.Eur.-USP-FU-BP-DAB

ERBAPharm

Description.....White crystalline powder Loss on drying.....48.0 - 52.0 % Fe.....<=20 ppm  
Identification.....Positive Loss on ignition.....40.0 - 52.0 % Se.....<=30 ppm  
Appearance of solution.....Conform Ph.Eur. Chloride.....<=140 ppm Assay (complexometric).....99.0 - 100.5 % s.s.  
Acidity or alkalinity.....Conform Ph.Eur. Heavy metals (Pb).....<=10 ppm  
pH solution 5%.....5.0 - 9.2 As.....<=2 ppm

Code	Size	Packaging	Notes
349852	1kg	Plastic bottle	
349859	5kg	Plastic bottle	
349851	25kg	Bag	

## Magneson II

Synonym : 4-(4-Nitrophenylazo)-1-naphthol

NO<sub>2</sub>C<sub>6</sub>H<sub>4</sub>N:NC<sub>10</sub>H<sub>6</sub>OH  
Molecular Weight 293,22  
CAS : 5290-62-0  
EEC-N : 226-129-4

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

**Warning**  
3.2/2; H315-3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

### Magneson II > RPE-For analysis

RPE

Description.....Dark red powder Mg sensitivity.....<=2 µg/ml  
Identification.....Positive Residue on ignition.....<=1 %

Code	Size	Packaging	Notes
465351	10g	Glass bottle	

Reagent for Mg and Mo determination

## Maize starch

(C<sub>6</sub>H<sub>10</sub>O<sub>5</sub>)<sub>n</sub>  
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      pH at 20° C .....4.0 - 7.0      Fe.....<= 10 ppm      Escherichia coli.....Absent Ph.Eur.  
Identification.....Positive      Loss on drying .....<= 15.0 %      Microbial tests.....Absent Ph. Eur.  
Sulfur dioxide.....<= 50 ppm      Sulphated ash.....<= 0.6 %      TAMC.....<= 1000 CFU/g  
Foreign cellular elem.....Conform Ph.Eur.      Oxidizing substances.....<= 20 ppm      TYMC .....<= 100 CFU/g

Code	Size	Packaging	Notes
313071	1kg	Plastic bottle	
313072	5kg	Plastic bottle	
313073	25kg	Fibre drum	

## Malachite green

C<sub>23</sub>H<sub>25</sub>ClN<sub>2</sub>  
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



3.3/1; H318-3.7/2; H361d-4.1.A/1; H400-4.1.C/1; H410-3.1.O/4; H302  
P280-P305+P351+P338-P308+P313-P330-P405-P501a

### Malachite green > RS-For microscopy-C.I. 42000

RS

Description .....Green shining crystals      Identification.....Positive

Code	Size	Packaging	Notes
491304	100g	Plastic bottle	

*Dye for cytology*

## Malachite green solution 0.5% in acetic anhydride

### Malachite green solution 0.5% in acetic anhydride > RS-For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611050501	1l	Bottle	Ref Ph.Eur 1050501

## Maleic 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



3.1.O/4; H302-3.2/2; H315-3.3/2; H319-3.4.S/1; H317-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

### Maleic acid > ERBAPharm-According to pharmacopoeia: BP-Ph.Eur.-USP-NF

ERBAPharm

Description .....White crystalline powder      Melting point .....132 - 135 °C      Fe.....<=5 ppm  
Identification.....Positive      Water (K.F.).....<=2.0 %      Assay (acidimetric) .....99.0 - 101.0 % s s  
Appearance of solution.....Conform Ph.Eur.      Sulphated ash.....<=0.1 %      Origin (BSE/TSE) .....Synthesis  
Fumaric acid.....Conform Ph.Eur.      Heavy metals (Pb).....<=10 ppm      Residual solvents (CPMP/ICH/283/95) .....Conform

Code	Size	Packaging	Notes
407266	500g	Plastic bottle	
407263	25kg	Fibre drum	

Product specifications are subject to changes.  
Please visit our website for updates.

## Maleic anhydride

Synonym : 2,5-Furandione

OC(=O)C=C(=O)O  
 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**

3.4.R/1; H334-3.2/1B; H314-3.1.0/4; H302-3.4.S/1; H317  
 P260-P304+P340-P305+P351+P338-P342+P311-P405-P501a

## Maleic anhydride &gt; RPE-For analysis

**RPE**

Description .....White flakes      Melting point .....52 - 55 °C      Assay (acidimetric) .....>= 98.5 %  
 Identification.....Positive      Acid maleic free .....<= 0.5 %

Code	Size	Packaging	Notes
421955	250g	Plastic bottle	

## DL-Malic acid

Synonym : (α)-2-Hydroxysuccinic acid

HOOCCH(OH)CH<sub>2</sub>COOH  
 Molecular Weight 134,09  
 CAS : 617-48-1  
 EEC-N : 210-514-9

**Warning**

3.3/2; H319  
 P280-P264-P305+P351+P338-P337+P313

## DL-Malic acid &gt; RPE-For analysis

**RPE**

Description .....White crystalline powder      Water .....<= 0.3 %      As .....<= 3 ppm  
 Identification.....Positive      Chloride .....<= 5 ppm      Pb .....<= 10 ppm  
 Water-insoluble matter.....<= 0.1 %      Heavy metals (Pb) .....<= 20 ppm      Assay (acidimetric) .....>= 99.0 %  
 Melting point .....130 - 132 °C      Sulphated ash.....<= 0.05 %

Code	Size	Packaging	Notes
407314	100g	Plastic bottle	
407316	500g	Plastic bottle	

## Malonic acid

Synonym : Propanedioic acid

HOOCCH<sub>2</sub>COOH  
 Molecular Weight 104,06  
 CAS : 141-82-2  
 EEC-N : 205-503-0

**Warning**

3.1.0/4; H302-3.3/2; H319  
 P280-P305+P351+P338-P330-P337+P313-P301+P312-P501a

## Malonic acid &gt; RPE-For analysis

**RPE**

Description .....White crystalline powder      Chloride .....<= 100 ppm      Sulphate .....<= 0.1 %  
 Identification.....Positive      Assay (acidimetric) .....>= 98.5 %  
 Melting point .....133 - 136 °C      Residue on ignition .....<= 0.5 %

Code	Size	Packaging	Notes
407363	50g	Glass bottle	
407365	250g	Glass bottle	

## Maltose monohydrate

C<sub>12</sub>H<sub>22</sub>O<sub>11</sub>.H<sub>2</sub>O  
 Molecular Weight 360,32  
 CAS : 6363-53-7  
 EEC-N : 200-716-5

## Maltose monohydrate &gt; RPE-For analysis

**RPE**

Description .....Whitish powder      Specific optical rotation(C=2; H<sub>2</sub>O 24h).....130 ± 3 °      Melting point .....ca. 120 °C (dec)  
 Identification.....Positive      Water .....<= 7.5 %      Assay .....>= 94.0 %

Code	Size	Packaging	Notes
459863	50g	Glass bottle	
459865	250g	Plastic bottle	



## ▶ Maltose monohydrate &gt; RE-Pure

RE

Description ..... White crystalline powder    Water ..... <= 7 %    Assay ..... >= 92 %  
 Identification ..... Positive    Sulphated ash ..... <= 0.1 %

Code	Size	Packaging	Notes
350401	25kg	Plastic bucket	

## ▶ D(-)Mandelic acid

$C_6H_5CH(OH)COOH$   
 Molecular Weight 152,15  
 CAS : 611-71-2  
 EEC-N : 210-276-6

## ▶ D(-)Mandelic acid &gt; RPE-For analysis

RPE

Description ..... White crystalline powder    Melting point ..... 133 - 135 °C  
 Identification ..... Positive    Specific optical rotation(C=2 in Water) ..... -155.4 - -153.4 °

Code	Size	Packaging	Notes
407421	25g	Glass bottle	

## ▶ DL-Mandelic acid

$C_6H_5CH(OH)COOH$   
 Molecular Weight 152,15  
 CAS : 90-64-2  
 EEC-N : 202-007-6

## ▶ DL-Mandelic acid &gt; RE-Pure

RE

Description ..... White crystalline powder    Melting point ..... 118 - 122 °C  
 Identification ..... Positive    Assay (acidimetric) ..... >= 97.5 %

Code	Size	Packaging	Notes
304757	1kg	Plastic bottle	

## ▶ L(+)Mandelic acid

$HOOC(CHOH)_2COOH$   
 Molecular Weight 152,15  
 CAS : 17199-29-0  
 EEC-N : 241-240-8

## ▶ L(+)Mandelic acid &gt; RPE-For analysis

RPE

Description ..... White crystalline powder    Melting point ..... 132 - 134 °C  
 Identification ..... Positive    Specific optical rotation ..... +153.4 - +155.4 °

Code	Size	Packaging	Notes
407431	25g	Glass bottle	

## ▶ Manganese standard solution

## ▶ Manganese standard solution &gt; RS-For analysis according to Ph. Eur. Chap. 4.1.2

RS

Code	Size	Packaging	Notes
615004500	1l	Bottle	A 100 ppm solution Ref Ph.Eur 5004500
615005800	1l	Bottle	A 1000 ppm solution Ref Ph.Eur 5005800

## Manganese standard solution > RS-Standard for ICP-MS

RS

Code	Size	Packaging	Notes
505716	50ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505717	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505718	100ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid

## Manganese standard solution > RS-Standard for ICP

RS

Code	Size	Packaging	Notes
503721	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503725	100ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
503723	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

## Manganese standard solution > RS-Standard for AAS

RS

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

Code	Size	Packaging	Notes
E497545	100ml	Glass bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
E497541	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid

## 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	Normex	Plastic ampoule	conc. 1.000 ppm Matrix : Hydrochloric acid

## Manganese standard solution > RS-Quality control standard solution for AAS (graphite furnace)

RS

Code	Size	Packaging	Notes
504362	50ml	Glass bottle	conc. 20 +/- 2 µg/L Matrix : 2% Nitric acid

## Manganese, electrolytic

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	250g	Glass bottle	

## Manganese (II) acetate tetrahydrate

Mn(CH<sub>3</sub>COO)<sub>2</sub>·4H<sub>2</sub>O  
Molecular Weight 245,08  
CAS : 6156-78-1



Warning

3.7/2; H361-3.2/2; H315-3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

## Manganese (II) acetate tetrahydrate > RPE-For analysis

RPE

Description.....Pink crystals Heavy metals (Pb) .....<= 5 ppm Cd.....<= 2.5 ppm Zn .....<= 2.5 ppm  
Identification.....Positive Subst. not ppt. (NH<sub>4</sub>)<sub>2</sub>S .....<= 0.2 % Cu.....<= 2.5 ppm Assay (complexometric).....>= 99 %  
pH sol. 5% at 25° C .....6.8 - 8.0 Subst. reducing KMnO<sub>4</sub> .....<= 10 ppm (1m) Fe.....<= 20 ppm  
Chloride .....<= 10 ppm Sulphate.....<= 50 ppm Ni .....<= 10 ppm  
Water-insoluble matter .....<= 50 ppm Ca.....<= 100 ppm Pb.....<= 5 ppm

Code	Size	Packaging	Notes
460005	250g	Plastic bottle	
460007	1kg	Plastic bottle	
460001	25kg	Plastic bucket	

## Manganese (II) carbonate

MnCO<sub>3</sub>  
Molecular Weight 114,95  
CAS : 598-62-9  
EEC-N : 209-942-9

### Manganese (II) carbonate > RPE-For analysis

RPE

Description.....Hazel powder HCl-insoluble matter .....<=100 ppm Ca.....<=0.15 % Ni .....<=20 ppm  
Identification.....Positive Heavy metals (Pb) .....<=50 ppm Cd.....<=10 ppm Pb .....<=10 ppm  
Alkaline carbonate.....<=500 ppm Subst. not ppt. (NH<sub>4</sub>)<sub>2</sub>S .....<=0.7 % Cu.....<=10 ppm Zn .....<=10 ppm  
Chloride .....<=50 ppm Sulphate.....<=50 ppm Fe.....<=50 ppm Assay (complexometric) .....42 - 46 % (Mn)

Code	Size	Packaging	Notes
460103	25kg	Bag	

## Manganese (II) chloride tetrahydrate

MnCl<sub>2</sub>.4H<sub>2</sub>O  
Molecular Weight 197,91  
CAS : 13446-34-9



**Warning**  
3.1.O/4; H302  
P264-P270-P330-P301+P312-P501a

### Manganese (II) chloride tetrahydrate > RPE-For analysis

RPE

Description.....Pink crystalline powder Ca.....<= 10 ppm Zn .....<= 10 ppm  
Identification.....Positive Fe.....<= 5 ppm Assay .....>= 99 %  
Substances reducing KMnO<sub>4</sub> (O).....<= 0.0005 % Mg .....<= 50 ppm  
Sulphate .....<= 50 ppm Pb .....<= 5 ppm

Code	Size	Packaging	Notes
460156	500g	Plastic bottle	

### Manganese (II) chloride tetrahydrate > RE-Pure

RE

Description.....Pink crystals Water-insoluble matter .....<=500 ppm Fe.....<=50 ppm  
Identification.....Positive Sulphate .....<=500 ppm Assay (complexometric) .....>=98 %

Code	Size	Packaging	Notes
351507	1kg	Plastic bottle	
351502	25kg	Drum	

## Manganese (II) nitrate solution 50%

Mn(NO<sub>3</sub>)<sub>2</sub>  
Molecular Weight 178,95  
CAS : 10377-66-9

### Classification transport

Transport Hazard class: 5.1  
Packing group III



**Danger**  
3.2/1B; H314-3.6/2; H351  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

### Manganese (II) nitrate solution 50% > RPE-For analysis

RPE

Description.....Legg clear liquid, pink Density at 15° C.....1.52 - 1.58 Assay (complexometric).....48.5 - 51.5 %  
Identification.....Positive pH sol. 5% at 25° C.....1.5 - 2.5

Code	Size	Packaging	Notes
E460232	1l	Glass bottle	

## Manganese (II) sulfate monohydrate

MnSO<sub>4</sub>.H<sub>2</sub>O  
Molecular Weight 169,01  
CAS : 10034-96-5  
EEC-N : 232-089-9

### Classification transport

ONU: 3077  
Transport Hazard class: 9  
Packing group III



**Warning**  
3.9/2; H373-4.1.C/2; H411  
P260-P273-P314-P391-P501a

### Manganese (II) sulfate monohydrate > RPE-For analysis-ACS

RPE

Description.....Pink powder Subst. reducing KMnO<sub>4</sub> .....Conform Fe.....<=20 ppm Ni .....<=20 ppm  
Identification.....Positive Chloride .....<=50 ppm K.....<=100 ppm Zn .....<=50 ppm  
Loss on ignition.....10.0 - 12.0 % Heavy metals (Pb) .....<=20 ppm Mg .....<=50 ppm Assay (complexometric) .....98.0 - 101.0 %  
Water-insoluble matter .....<=100 ppm Ca.....<=50 ppm Na.....<=500 ppm

Code	Size	Packaging	Notes
460305	250g	Plastic bottle	
460307	1kg	Plastic bottle	

## Manganese (II) sulfate monohydrate > RE-Pure

**RE**

Description..... Powder pink Water-insoluble matter .....<= 500 ppm As .....<= 5 ppm  
 Identification.....Positive Pb .....<= 15 ppm Assay (complexometric).....>= 98 %

Code	Size	Packaging	Notes
352007	1kg	Plastic bottle	
352002	25kg	Drum	

## Manganese (IV) oxide

 Synonym : *Manganese dioxide*

MnO<sub>2</sub>  
 Molecular Weight 86,94  
 CAS : 1313-13-9  
 EEC-N : 215-202-6


**Warning**

3.1.O/4; H302-3.1.I/4; H332  
 P261-P271-P304+P340-P312-P330-P501a

## Manganese (IV) oxide > RPE-For analysis

**RPE**

Description.....Black powder Loss on drying 120° C .....<=1.5 %  
 Identification.....Positive Assay (oxidimetric).....>=90.0 %

Code	Size	Packaging	Notes
460055	250g	Plastic bottle	
460052	25kg	Plastic bucket	

## D(+)-Mannose

 Synonym : *D-Mannopyranose*

CH<sub>2</sub>OHCH(CHOH)<sub>4</sub>O  
 Molecular Weight 180,16  
 CAS : 3458-28-4  
 EEC-N : 222-392-4

## D(+)-Mannose > RPE-For analysis

**RPE**

Description.....White crystalline powder Loss on drying .....<=0.5 % Residue on ignition .....<=0.1 %  
 Identification.....Positive Chloride .....<=50 ppm Sulphate .....<=50 ppm  
 Melting point.....130.5 - 133.5 ° C Water-insoluble matter .....<=100 ppm Fe.....<=10 ppm  
 Specific optical rotation.....+13.4 - +15.0 ° Heavy metals (Pb) .....<=10 ppm

Code	Size	Packaging	Notes
460452	25g	Glass bottle	

## D-Mannitol

 Synonym : *Mannite*

CH<sub>2</sub>OH(CHOH)<sub>4</sub>CH<sub>2</sub>OH  
 Molecular Weight 182,17  
 CAS : 69-65-8  
 EEC-N : 200-711-8

## D-Mannitol > RPE-For analysis

**RPE**

Description.....White crystal. powder Chloride .....<=50 ppm Total sugars(Glucose).....<=0.3 %  
 Identification.....Positive Water-insoluble matter .....<=100 ppm As .....<=1 ppm  
 Melting point.....166.0 - 170.0 ° C Heavy metals (Pb) .....<=5 ppm Ca .....<=40 ppm  
 Specific optical rotation.....+23.30 - +24.00 ° Residue on ignition .....<=100 ppm Fe.....<=10 ppm  
 Loss on drying .....<=0.1 % Sulphate .....<=100 ppm Assay (oxidimetric) .....>=98.5 %  
 Acidity (acetic acid) .....<=50 ppm Red.ing sugars(Glucose).....<=0.1 %

Code	Size	Packaging	Notes
460355	250g	Plastic bottle	
460357	1kg	Plastic bottle	
460352	5kg	Plastic bottle	
460353	25kg	Plastic bucket	

► **D-Mannitol > ERBAPharm-According to pharmacopoeia: Ph.Eur.-USP-FU**

Description.....	White crystalline powder	Sulphate.....	<= 100 ppm	Conductivity.....	<= 20 µS.cm-1
Identification.....	Positive	As.....	<= 1 ppm	Microbial tests.....	
Appearance of solution.....	Conform Ph.Eur.	Ni.....	<= 1 ppm	TAMC.....	<= 1000 CFU/g
Acidity.....	Conform USP-NF	Pb.....	<= 0.5 ppm	TYMC.....	<= 100 CFU/g
Melting point.....	165 - 169 °C	Specific optical rotation at 25°C (on dr.....)	+137 - +145 °	Escherichia coli.....	Absent Ph. Eur.
Water (K.F.).....	<= 0.5 %	Assay (anhydrous) (HPLC).....	98.0 - 101.5 %	Salmonella.....	Absent Ph. Eur.
Loss on drying.....	<= 0.3 %	Reducing sugar.....	<= 0.2 %		
Chloride.....	<= 70 ppm	Similar substances (HPLC).....	Conform Ph.Eur.		

Code	Size	Packaging	Notes
352051	1kg	Plastic bottle	
352052	5kg	Plastic bottle	
352053	25kg	Plastic bucket	

**May Grunwald's stain**



**Danger**

3.3/1; H318-3.1.0/4; H302  
P280-P264-P305+P351+P338-P330-P301+P312-P501a

► **May Grunwald's stain > RS-For microscopy**

**RS**

Description.....Dark green powder Identification.....Positive Spectrophotometric characteristics.....Conform

Code	Size	Packaging	Notes
429001	100g	Bottle	

Dye according hematology May-Grunwald or Jenner.

**May Grunwald reagent**

**Classification transport**

ONU: 1992  
Transport Hazard class: 3  
Packing group II



**Danger**

2.6/2; H225-3.1.D/3; H311-3.8/1; H370  
P210-P241-P307+P311-P403+P235-P405-P501a

► **May Grunwald reagent > RS-For microscopy**

**RS**

Description.....Blue clear liquid E 1% / 1 cm at 522 nm.....130 - 180 Functionality.....Conform  
Identification.....Positive E 1% / 1 cm at 552 nm.....30 - 40  
pH (20% in water).....5.4 - 7.5 E 1% / 1 cm at 650 nm.....250 - 350

Code	Size	Packaging	Notes
E460582	6x100ml	Glass bottle	
E460583	6x500ml	Glass bottle	
E460585	4x2,5l	Glass bottle	

Dye according to Pappenheim hematology.

**Mayer's reagent**

**Classification transport**

ONU: 2024  
Transport Hazard class: 6.1  
Packing group II



**Danger**

3.1.0/2; H300-3.4.R/1; H334-3.5/2; H341-3.9/2; H373-3.2/2; H315-3.3/2; H319-3.4.S/1; H317-4.1.C/3;  
H412  
P260-P261-P305+P351+P338-P342+P311-P405-P501a

► **Mayer's reagent > RS-For alkaloids detection**

**RS**

Description.....Yellow clear liquid Identification.....Positive

Code	Size	Packaging	Notes
460502	500ml	Glass bottle	

# MEN

## L-Menthol

C<sub>10</sub>H<sub>19</sub>OH  
Molecular Weight 156,26  
CAS : 2216-51-5  
EEC-N : 218-690-9



**Warning**  
3.3/2; H319  
P280-P264-P305+P351+P338-P337+P313

### L-Menthol > ERBAPharm-According to pharmacopoeia: USP

ERBAPharm

Description.....Colourless crystals Melting point .....41 - 44 ° C Assay (GLC).....>=97 %  
Identification.....Positive Specific optical rotation.....-51 - -45 °  
Residue solvents.....Conform USP-NF Residue on evaporation.....<=500 ppm

Code	Size	Packaging	Notes
352103	50g	Glass bottle	
352106	500g	Plastic bottle	

## 2-Mercaptoethanol

HSCH<sub>2</sub>CH<sub>2</sub>OH  
Molecular Weight 78,13  
CAS : 60-24-2  
EEC-N : 200-464-6

### Classification transport

ONU: 2966  
Transport Hazard class: 6.1  
Packing group II



### Danger

3.1.O/3; H301-3.1.D/2; H310-3.2/1B; H314-4.1.C/2; H411  
P260-P302+P350-P304+P340-P305+P351+P338-P405-P501a

### 2-Mercaptoethanol > RPE-For analysis

RPE

Description.....Clear colourless liquid Refractive index at 20° C .....1.4990 - 1.5020 Assay (GLC).....>= 98.5 %  
Identification.....Positive Water .....<= 0.5 %

Code	Size	Packaging	Notes
460691	10ml	Glass bottle	

## Mercuric bromide paper

### Classification transport

ONU: 1935  
Transport Hazard class: 6.1  
Packing group III



### Warning

3.9/2; H373-3.1.O/4; H302-3.1.I/4; H332-4.1.C/2; H411  
P260-P261-P271-P304+P340-P312-P501a

### Mercuric bromide paper > RS-For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611052101	50pc	Box	Ref Ph.Eur 1052101

Storage: in a glass-stoppered container wrapped with black paper

## Mercury standard solution

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

RS

Code	Size	Packaging	Notes
615001901	100ml	Bottle	A 10 ppm solution : to dilute according to Ref Ph.Eur 5001901
615001900	1l	Bottle	A 1000 ppm solution Ref Ph.Eur 5001900

### Mercury standard solution > RS-Standard for ICP-MS

RS

Code	Size	Packaging	Notes
505651	50ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
505652	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
505655	100ml	Plastic bottle	conc. 100 ppm Matrix : Hydrochloric acid

## ▶ Mercury standard solution &gt; RS-Standard for ICP

RS

Code	Size	Packaging	Notes
503631	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503635	100ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
503633	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503637	500ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

## ▶ Mercury standard solution &gt; RS-Standard for AAS

RS

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

Code	Size	Packaging	Notes
497555	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
497551	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid

## ▶ Mercury standard solution &gt; RS-NORMEX- Concentrated solution for AAS

RS

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

Code	Size	Packaging	Notes
460741	Normex	Plastic ampoule	conc. 1.000 ppm Matrix : Nitric acid

▶ Mercury standard solution >  
RS-Quality control standard solution for AAS (graphite furnace)


RS

Code	Size	Packaging	Notes
504370	100ml	Plastic bottle	conc. 500 +/- 30 µg/L Matrix : 2% Nitric acid

## Mercury (I) acetate

CH<sub>3</sub>COOHg  
Molecular Weight 259,65  
CAS : 631-60-7  
EEC-N : 211-161-3

**Classification transport**  
ONU: 1629  
Transport Hazard class: 6.1  
Packing group II

 **Danger**  
3.1.O/3; H301-3.1.D/3; H311-3.1.I/1; H330-3.9/2; H373-4.1.A/1; H400-4.1.C/1; H410  
P260-P271-P280-P304+P340-P405-P501a

## ▶ Mercury (I) acetate &gt; RE-Pure

RE


Description .....White crystalline powder Chloride .....<=50 ppm Sulphate .....<=0.2 %  
Identification.....Positive Residue on ignition .....<=500 ppm Fe.....<=10 ppm  
Other heavy metals.....<=50 ppm Mercurous salts .....<=0.5 % Assay (oxidimetric) .....>=98 %

Code	Size	Packaging	Notes
460781	250g	Glass bottle	

## Mercury (I) chloride

Hg<sub>2</sub>Cl<sub>2</sub>  
Molecular Weight 472,08  
CAS : 10112-91-1  
EEC-N : 233-307-5

**Classification transport**  
ONU: 3077  
Transport Hazard class: 9  
Packing group III

 **Warning**  
4.1.A/1; H400-4.1.C/1; H410-3.1.O/4; H302-3.2/2; H315-3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

## ▶ Mercury (I) chloride &gt; 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	100g	Glass bottle	
352657	1kg	Plastic bottle	

## Mercury (I) nitrate monohydrate

HgNO<sub>3</sub>·H<sub>2</sub>O  
Molecular Weight 280,63  
CAS : 7782-86-7

**Classification transport**  
ONU: 1627  
Transport Hazard class: 6.1  
Packing group II

 **Danger**  
3.1.O/2; H300-3.1.D/1; H310-3.1.I/2; H330-3.9/2; H373-4.1.A/1; H400-4.1.C/1; H410  
P260-P271-P302+P350-P304+P340-P405-P501a

### Mercury (I) nitrate monohydrate > RPE-For analysis

**RPE**


Description.....White crystals  
Identification.....Positive  
Chloride.....<=50 ppm  
Residue on ignition.....<=100 ppm  
Mercurous salts.....<=0.5 %  
Sulphate.....<=50 ppm  
Fe.....<=10 ppm  
Assay (oxidimetric).....>=98.0 %

Code	Size	Packaging	Notes
461155	250g	Glass bottle	

## Mercury (II) acetate

Hg(CH<sub>3</sub>COO)<sub>2</sub>  
Molecular Weight 318,68  
CAS : 1600-27-7  
EEC-N : 216-491-1

**Classification transport**  
ONU: 1629  
Transport Hazard class: 6.1  
Packing group II

 **Danger**  
3.1.O/2; H300-3.1.D/1; H310-3.1.I/2; H330-3.9/2; H373-4.1.A/1; H400-4.1.C/1; H410  
P260-P271-P302+P350-P304+P340-P405-P501a

### Mercury (II) acetate > RPE-For analysis-ACS-Reag.Ph.Eur.-Reag.USP

**RPE**


Description.....White crystalline powder  
Identification.....Positive  
Water-insoluble matter.....<=100 ppm  
Residue after reduction.....<=200 ppm  
Other heavy metals.....<=20 ppm  
Mercurous compounds.....<=0.4 %  
Chloride.....<=50 ppm  
Nitrate.....<=50 ppm  
Sulphate.....<=50 ppm  
Fe.....<=10 ppm  
Assay(mercurymetric).....>=98.0 %

Code	Size	Packaging	Notes
460824	100g	Glass bottle	

## Mercury (II) amidochloride

HgNH<sub>2</sub>Cl  
Molecular Weight 252,07  
CAS : 10124-48-8  
EEC-N : 233-335-8

**Classification transport**  
ONU: 1630  
Transport Hazard class: 6.1  
Packing group II

 **Danger**  
3.1.O/2; H300-3.1.D/1; H310-3.1.I/2; H330-3.9/2; H373-4.1.A/1; H400-4.1.C/1; H410  
P260-P271-P302+P350-P304+P340-P405-P501a

### Mercury (II) amidochloride > RE-Pure

**RE**


Description.....White powder  
Identification.....Positive  
Residue on ignition.....<=0.2 %  
Assay.....>= 97.0 %

Code	Size	Packaging	Notes
352603	50g	Glass bottle	

## Mercury (II) chloride

HgCl<sub>2</sub>  
Molecular Weight 271,5  
CAS : 7487-94-7  
EEC-N : 231-299-8

**Classification transport**  
ONU: 1624  
Transport Hazard class: 6.1  
Packing group II

 **Danger**  
3.1.O/2; H300-3.9/1; H372-3.5/2; H341-3.7/2; H361f-3.2/1B; H314-4.1.A/1; H400-4.1.C/1; H410  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

### Mercury (II) chloride > RPE-For analysis-ISO-ACS-Reag.Ph.Eur.-Reag.USP

**RPE**

Description.....White pieces  
Identification.....Positive  
Solution in ethyl ether.....Conform  
Residue after reduction.....<=200 ppm  
Fe.....<=20 ppm  
Assay (complexometric).....99.5 - 100.5 % s.s.  
Appearance of solution.....Conform  
Acidity or alkalinity.....Conform  
Mercurous chloride.....Conform  
Loss on drying.....<=1.0 %

Code	Size	Packaging	Notes
461003	50g	Glass bottle	
461005	250g	Glass bottle	
461007	1kg	Plastic bottle	



## Mercury (II) chloride solution 5%

## Classification transport

ONU: 2024  
 Transport Hazard class: 6.1  
 Packing group II



Danger

3.1.O/2; H300-3.2/1B; H314-3.5/2; H341-3.7/2; H361f-3.9/2; H373-4.1.C/2; H411  
 P260-P280-P304+P340-P305+P351+P338-P405-P501a

## Mercury (II) chloride solution 5% &gt; RPE-For analysis

RPE

Description .....Clear colourless liquid Identification.....Positive Assay .....4.8 - 5.2 % (p/p)

Code	Size	Packaging	Notes
461021	1l	Glass bottle	

## Mercury (II) chloride solution 54 g/l

## Classification transport

ONU: 2024  
 Transport Hazard class: 6.1  
 Packing group II



Danger

3.1.O/2; H300-3.2/1B; H314-3.5/2; H341-3.7/2; H361f-3.9/2; H373-4.1.C/2; H411  
 P260-P280-P304+P340-P305+P351+P338-P405-P501a

Mercury (II) chloride solution 54 g/l >  
RS-For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611052201	100ml	Bottle	Ref Ph.Eur 1052201

## Mercury (II) iodide

HgI<sub>2</sub>  
 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

3.1.O/2; H300-3.1.D/1; H310-3.1.I/2; H330-3.9/2; H373-4.1.A/1; H400-4.1.C/1; H410  
 P260-P271-P302+P350-P304+P340-P405-P501a

## Mercury (II) iodide &gt; RPE-For analysis-ACS-Reag.Ph.Eur.-Reag.USP

RPE

Description .....Red - brick powder Solub. in KI solution .....Conform Mercurous compounds .....<=0.1 %  
 Identification.....Positive Soluble mercury salts.....<=500 ppm Assay (oxidimetric).....>=99.0 % s.s.

Code	Size	Packaging	Notes
461105	250g	Glass bottle	

## Mercury (II) nitrate monohydrate

Hg(NO<sub>3</sub>)<sub>2</sub>.H<sub>2</sub>O  
 Molecular Weight 342,61  
 CAS : 7783-34-8  
 EEC-N : 233-886-4

## Classification transport

ONU: 1625  
 Transport Hazard class: 6.1  
 Packing group II



Danger

3.1.O/2; H300-3.1.D/1; H310-3.1.I/2; H330-3.9/2; H373-4.1.A/1; H400-4.1.C/1; H410  
 P260-P271-P302+P350-P304+P340-P405-P501a

## Mercury (II) nitrate monohydrate &gt; RPE-For analysis-ACS-Reag.Ph.Eur.-Reag.USP

RPE

Description .....White crystals Chloride .....<=20 ppm Assay(mercurymetric).....>=98.0 %  
 Identification.....Positive Sulphate .....<=20 ppm  
 Residue on ignition .....<=100 ppm Fe.....<=10 ppm

Code	Size	Packaging	Notes
461205	250g	Glass bottle	

## Mercury (II) oxide red

HgO  
Molecular Weight 216,61  
CAS : 21908-53-2  
EEC-N : 244-654-7

**Classification transport**  
ONU: 1641  
Transport Hazard class: 6.1  
Packing group II



**Danger**

3.1.O/2; H300-3.1.D/1; H310-3.1.I/2; H330-3.9/2; H373-4.1.A/1; H400-4.1.C/1; H410  
P260-P271-P302+P350-P304+P340-P405-P501a

### 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	250g	Glass bottle	

## Mercury (II) oxide yellow

HgO  
Molecular Weight 216,61  
CAS : 21908-53-2  
EEC-N : 244-654-7

**Classification transport**  
ONU: 1641  
Transport Hazard class: 6.1  
Packing group II



**Danger**

3.1.O/2; H300-3.1.D/1; H310-3.1.I/2; H330-3.9/2; H373-4.1.A/1; H400-4.1.C/1; H410  
P260-P271-P302+P350-P304+P340-P405-P501a

### Mercury (II) oxide yellow > RPE-For analysis-ACS-Reag.Ph.Eur.-Reag.USP

**RPE**

Description.....Yellow orange powder  
Identification.....Positive  
Total nitrogen.....<=50 ppm  
Diluted HCl-ins. matter.....<=300 ppm  
Residue on ignition.....<=500 ppm  
Chloride.....<=250 ppm  
Sulphate.....<=100 ppm  
Fe.....<=30 ppm  
Assay (complexometric).....>=99.0 %

Code	Size	Packaging	Notes
461303	50g	Glass bottle	
461305	250g	Glass bottle	

## Mercury (II) perchlorate 0.01 mol/l (0.01N)

**Classification transport**  
ONU: 2024  
Transport Hazard class: 6.1  
Packing group III



**Danger**

3.1.O/3; H301-3.1.D/2; H310-3.1.I/3; H331-3.9/2; H373-4.1.C/2; H411  
P260-P261-P302+P350-P304+P340-P405-P501a

### Mercury (II) perchlorate 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
461341	Normex	Plastic ampoule	

3,9955 g of Hg(ClO<sub>4</sub>)<sub>2</sub> . Concentrated volumetric solution to prepare 1 L of solution 0,01 N.

## Mercury (II) sulfate

HgSO<sub>4</sub>  
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**

3.1.O/2; H300-3.1.D/1; H310-3.1.I/2; H330-3.9/2; H373-4.1.A/1; H400-4.1.C/1; H410  
P260-P271-P302+P350-P304+P340-P405-P501a

### Mercury (II) sulfate > RS-For COD determination

**RS**

Assay.....>= 98 %

Code	Size	Packaging	Notes
526702	250g	Plastic bottle	

## Mercury (II) sulfate &gt; RPE-For analysis-ACS

Description	White powder or yellow	Residue on ignition	<=200 ppm	Fe	<=50 ppm
Identification	Positive	Mercurous compounds	<=0.15 %	Assay (oxidimetric)	>=98.0 %
Chloride	<=30 ppm	Nitrate	Conform		

Code	Size	Packaging	Notes
461405	250g	Glass bottle	

## Mercury (II) sulfate solution

## Classification transport

ONU: 2922

Transport Hazard class: 8

Packing group II



Danger

3.1.1/3; H331-3.2/1A; H314-3.9/2; H373-3.1.0/4; H302-4.1.C/2; H411  
P260-P261-P304+P340-P305+P351+P338-P405-P501a

## Mercury (II) sulfate solution &gt; RS-For analysis according to Ph. Eur. Chap. 4.1.1

Code	Size	Packaging	Notes
611052600	100ml	Bottle	Ref Ph.Eur 1052600

## Mesitylene

1,3,5-(CH<sub>3</sub>)<sub>3</sub>C<sub>6</sub>H<sub>3</sub>  
Molecular Weight 120,19  
CAS : 108-67-8  
EEC-N : 203-604-4

## Classification transport

ONU: 2325

Transport Hazard class: 3

Packing group III



Warning

2.6/3; H226-3.8/3; H335-4.1.C/2; H411  
P210-P241-P304+P340-P403+P235-P405-P501a

## Mesitylene &gt; RPE-For analysis

Description	Clear colourless liquid	Water (K.F.)	<=100 ppm	Total sulphur	<=5 ppm
Identification	Positive	Residue on evaporation	<=100 ppm	Assay (GLC)	>=99 %
Density at 20° C	0.859 - 0.869	Acidity (benzoic acid)	<=14 ppm		
Refractive index at 20° C	1.4973 - 1.5023	Alcalinity (NH <sub>3</sub> )	<=2 ppm		

Code	Size	Packaging	Notes
461554	100ml	Glass bottle	

## Metanil yellow

C<sub>18</sub>H<sub>14</sub>N<sub>3</sub>NaO<sub>3</sub>S  
Molecular Weight 375,38  
CAS : 587-98-4  
EEC-N : 209-608-2



Warning

3.1.D/4; H312-3.1.I/4; H332  
P261-P271-P280-P304+P340-P312-P501a

## Metanil yellow &gt; RPE-For analysis-C.I. 13065

Description	Yellow-brown powder	pH range	1.2 - 2.3	Colour change	red-yellow
Identification	Positive	Loss on drying	<=5 %		

Code	Size	Packaging	Notes
453542	25g	Glass bottle	

Acid-base indicator (pH 1.2 ÷ 2.3).

## Metaphosphoric acid

HPO<sub>3</sub>  
Molecular Weight 79,98  
CAS : 37267-86-0

## Classification transport

ONU: 3261

Transport Hazard class: 8

Packing group III



Danger

3.2/1B; H314  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

## Metaphosphoric acid &gt; RPE-For analysis

Description	Whitish semitransparent pieces	Nitrate	<=10 ppm	Fe	<=100 ppm
Identification	Positive	Subst. reducing KMnO <sub>4</sub>	<=100 ppm (5m)	Pb	<=10 ppm
Chloride	<=20 ppm	Sulphate	<=10 ppm	Assay (acidimetric)	40 - 50 %
Heavy metals (Pb)	<=10 ppm	As	<=1 ppm	Stabilizer(NaPO <sub>3</sub> )	50 - 60 %

Code	Size	Packaging	Notes
407465	250g	Plastic bottle	
407467	1kg	Plastic bottle	

## Methanesulfonic acid

CH<sub>3</sub>SO<sub>3</sub>H  
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**  
3.2/1B; H314  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

### Methanesulfonic acid > RE-Pure

RE

Description ..... Yellow - brown liquid  
Identification ..... Positive  
Density at 20° C ..... 1.47 - 1.48  
Assay (acidimetric) ..... >=99 %

Code	Size	Packaging	Notes
407481	250ml	Glass bottle	
407483	1l	Glass bottle	

## Methanol

Synonym : Methyl alcohol

CH<sub>3</sub>OH  
Molecular Weight 32  
CAS : 67-56-1  
EEC-N : 200-659-6

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



**Danger**  
2.6/2; H225-3.1.O/3; H301-3.1.D/3; H311-3.1.I/3; H331-3.8/1; H370  
P210-P241-P304+P340-P307+P311-P403+P235-P405-P501a

### 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 ..... <= 0.0006 meq/g  
Assay (GLC) ..... >= 99.95 %  
**U.V. Transmittance**  
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**  
At 235 nm ..... <= 2 mAU  
At 254 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

Code	Size	Packaging	Notes
414831	1l	Glass bottle	
414832	2,5l	Glass bottle	

Filtered through 0.1µm membrane. Suitable for ULC-MS

### Methanol > RS-For HPLC GOLD - Ultragradient

RS

Description ..... Clear liquid  
Identification ..... Positive  
Colour ..... <= 10 APHA  
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  
Carbonyl compounds (CH<sub>3</sub>COCH<sub>3</sub>) ..... <= 20 ppm  
Substances reducing KMnO<sub>4</sub> (O) ..... <= 2 ppm  
Acidity ..... <= 0.0003 meq/g  
Alkalinity ..... <= 0.0006 meq/g  
Ethanol ..... <= 50 ppm  
Assay (GLC) ..... >= 99.9 %  
**Fluorescence**  
At 254 nm ..... <= 1 ppb  
At 365 nm ..... <= 1 ppb  
**Transmittance**  
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**  
At 235 nm ..... <= 2 mAU  
At 254 nm ..... <= 1 mAU  
HPLC Gradient ..... Passed test

Code	Size	Packaging	Notes
412721	1l	Glass bottle	
412722	2,5l	Glass bottle	
412724	4l	Glass bottle	
412725	5l	Aluminium can	

Filtered through 0.1 µm membrane. Suitable for use in UHPLC.

### Methanol > RS-For HPLC PLUS-Gradient

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  
Alkalinity ..... <=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**  
At 235 nm ..... <= 2 mAU  
At 254 nm ..... <= 1 mAU

Code	Size	Packaging	Notes
412381	1l	Glass bottle	
412383	2,5l	Glass bottle	

Filtered through 0.1 µm membrane

## Methanol > RS-For HPLC Isocratic-ACS-Reag.Ph.Eur R2-Reag.USP

RS

Description .....	Clear colourless liquid	Water (K.F.).....	<= 0.05 %	Carbonyl compounds (CO) .....	<= 0.001 %	At 235 nm .....	>= 80 %
Identification .....	Positive	Acidity .....	<= 0.0005 meq/g	Absorbance ACS .....	Conform	At 260 nm .....	>= 98 %
Density at 20° C .....	0.7917 - 0.793	Alcalinity .....	<= 0.0002 meq/g	HPLC Gradient (ACS) .....	Conform	<b>Absorbance</b>	
Refractive index at 20° C .....	1.3278 - 1.3298	Substances darkened by H2SO4 .....	Conform	Assay (GLC) .....	>= 99.9 %	At 225 nm .....	<= 0.17 AU
Boiling point .....	64 - 65 °C	Subs. reducing KMnO4 .....	Conform	<b>U.V. Transmittance</b>			
Residue on evaporation .....	<= 5 ppm	Solubility in water .....	Conform	At 210 nm .....	>= 20 %		

Code	Size	Packaging	Notes
412533	1l	Glass bottle	
412532	2,5l	Glass bottle	
412535	2,5l	Glass bottle PVC coated	

## Methanol > RS-For HPLC Isocratic

RS

Description .....	Clear colourless liquid	Boiling point .....	63.6 - 65.6 °C	Residue on evaporation .....	<= 10 ppm	At 210 nm .....	>= 20 %
Density at 20° C .....	0.7917 - 0.7921	Assay GLC .....	>= 99.9 %	Water (KF) .....	<= 500 ppm	At 235 nm .....	>= 80 %
Refractive index at 20° C .....	1.3278 - 1.3298	Acidity (formic Ac) .....	<= 20 ppm	<b>U.V. Transmittance</b>		At 260 nm .....	>= 98 %

Code	Size	Packaging	Notes
525101	1l	Glass bottle	
525102	2,5l	Glass bottle	

## Methanol > RS-ATRASOL-For trace analysis, Suitable for GC analysis of volatile chlorinated

RS

Appearance .....	Clear colourless liquid	Assay (GC) .....	>= 99.98 %	<b>Retention time trichlorobenzene to mirex</b>	
Refractive index at 20° C .....	1.327 - 1.331	Free alkali (as NH3) .....	<= 1 mg/Kg	GC-FID. Individ. peak (hexadecane) .....	<= 5 µg/l
Water content (K.F.) .....	<= 300 mg/Kg	Free acid (as HCOOH) .....	<= 10 mg/Kg	<b>Retention time range over toluene</b>	
Colour .....	<= 5 Hazen	GC (FID) - NC Atrasol .....	Conform	GC-ECD. Individual peak (CCl4) .....	<= 1 µg/l
Non volatile residue .....	<= 2 mg/Kg	GC-ECD. Individual peak (Lindane) .....	<= 2 ng/l	<b>Ret.time dichloromethane- trichlorobenz.</b>	

Code	Size	Packaging	Notes
P0933216	1l	Glass bottle	
P0933221	2,5l	Glass bottle	

## Methanol > RS-PESTIPUR- For pesticide analysis

RS

Description .....	Clear colourless liquid	Free acids (HCOOH) .....	<= 10 ppm	GC-NPD (Ethylparation) .....	<= 3 ng/l
Identification .....	Positive	Free alkalies (NH3) .....	<= 1 ppm	Assay (GLC) .....	>= 99.9 %
Colour .....	<= 10 hazen	Not volatile residue .....	<= 5 ppm		
Water .....	<= 0.05 %	GC-ECD (Lindane) .....	<= 3 ng/l		

Code	Size	Packaging	Notes
414930	1l	Glass bottle	
414932	2,5l	Glass bottle	

## Methanol > RS-SPECTROSOL - For optical spectroscopy

RS

Description .....	Clear liquid	Water (K.F.) .....	<= 300 ppm	At 254 nm .....	<= 2 ppb	At 240 nm .....	>= 90 %
Colour .....	<= 10 APHA	Residue on evaporation .....	<= 5 ppm	At 365 nm .....	<= 2 ppb	At 260 nm .....	>= 98 %
Identification .....	Positive	Acidity .....	<= 0.0005 meq/g	<b>U.V. Transmittance</b>		Nessler test .....	Conform
Density at 20° C .....	0.7917 - 0.7921	Alcalinity .....	<= 0.0002 meq/g	At 205 nm .....	>= 10 %	Ethyl alcohol .....	<= 200 ppm
Refractive index at 20° C .....	1.3280 - 1.3296	Assay (GLC) .....	>= 99.9 %	At 220 nm .....	>= 50 %	Carbonyl compounds (CO) .....	<= 20 ppm
Boiling point .....	64.1 - 65.1 °C	<b>Fluorescence</b>		At 230 nm .....	>= 75 %		

Code	Size	Packaging	Notes
414902	1l	Glass bottle	
414903	2,5l	Glass bottle	

## Methanol > RS-Anhydrous-For analysis

RS

Clear liquid appearance .....	Conform	Water content (K.F.) .....	<= 200 mg/Kg	Assay (GC) .....	>= 99.9 %
Colour .....	<= 10 Hazen	Non volatile residue .....	<= 10 mg/Kg	Carbonyl compounds (as CH3COCH3) .....	<= 20 mg/Kg
Refractive index at 20° C .....	1.327 - 1.331	Free acid (as HCOOH) .....	<= 10 mg/Kg	Ethanol .....	<= 100 mg/Kg
Identification (IR) .....	Conform	Free alkali (as NH3) .....	<= 1 mg/Kg	KMnO4 reducing subst. (as O) .....	<= 2 mg/Kg

Code	Size	Packaging	Notes
P0931010	200ml	Bottle with sept	
414981	1l	Glass bottle	
P0931016	1l	Glass bottle	
P0931021	2,5l	Glass bottle	

Product specifications are subject to changes.  
Please visit our website for updates.

## Methanol > RS-VLSI For electronic use

RS

Code	Size	Packaging	Notes
527640	2,5l	Plastic bottle	

## Methanol > RS-RSE For electronic use

RS

Description	.....Clear liquid	Chloride	.....<=0.2 ppm	Ca	.....<=0.5 ppm	Ni	.....<=0.01 ppm
Colour	.....<=10 APHA	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	Tl	.....<=0.05 ppm
Density at 20° C	.....0.791 - 0.793	Al	.....<=0.05 ppm	In	.....<=0.02 ppm	Ti	.....<=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	1l	Glass bottle	
414914	2,5l	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	.....<=10 APHA	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
414821	2,5l	Glass bottle	

## Methanol > RS-For Karl Fischer titration

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	1l	Glass bottle	
414883	2,5l	Glass bottle	

## Methanol > RPE-For analysis-ACS-Reag.Ph.Eur.-Reag.USP

RPE

Description	.....Clear liquid	Residue on evaporation	.....<=10 ppm	B	.....<=0.02 ppm	Mn	.....<=0.01 ppm
Colour	.....<=10 APHA	Acidity	.....<= 0.0003 meq/g	Ba	.....<=0.1 ppm	Ni	.....<=0.01 ppm
Identification (I.R.)	.....Conform	Alcalinity	.....<= 0.00006 meq/g	Ca	.....<=0.5 ppm	Pb	.....<=0.01 ppm
Water miscib. (15:40)	.....Complete	Ethyl alcohol	.....<=100 ppm	Cd	.....<=0.05 ppm	Sn	.....<=0.1 ppm
Ready carbonizable substances	.....Conform	Chloride	.....<=0.5 ppm	Co	.....<=0.01 ppm	Zn	.....<=0.1 ppm
Density at 20° C	.....0.791 - 0.793	Carbonyl Compounds (CO)	.....<=10 ppm	Cr	.....<=0.02 ppm	Assay (GLC)	.....>=99.9 %
Refractive index at 20°C	.....1.3280 - 1.3296	Heavy metals (Pb)	.....<=0.5 ppm	Cu	.....<=0.01 ppm	Nessler test	.....Conform
Boiling point	.....64 - 65 ° C	Subst. reducing KMnO4	.....<=2 ppm	Fe	.....<=0.1 ppm		
Water (K.F.)	.....<=300 ppm	Al	.....<=0.5 ppm	Mg	.....<=0.1 ppm		

Code	Size	Packaging	Notes
414814	1l	Glass bottle	
414819	1l	Plastic bottle	
414815	2,5l	Plastic bottle	
414816	2,5l	Glass bottle	
524102	5l	Plastic tank	
524103	5l	Metal tank	
414818	10l	Plastic tank	
414813	25l	Plastic tank	
414817	200l	Metal drum	

### Methanol > RPE-Anhydrous-For analysis

Description .....	Clear liquid	Density at 20° C .....	0.791 - 0.793	Acidity (formic acid) .....	<=15 ppm	Subst. reducing KMnO4 .....	<=3 ppm
Colour .....	<=10 APHA	Refractive index at 20°C .....	1.3280 - 1.3297	Alcalinity (NH3) .....	<=1 ppm	Cu .....	<=0.01 ppm
Identification .....	Positive	Boiling point .....	64.1 - 65.1 ° C	Ethyl alcohol .....	<=200 ppm	Ni .....	<=0.01 ppm
Water miscib. (15:40) .....	Complete	Water (K.F.) .....	<=0.01 %	Carbonyl Compounds (CO) .....	<=5 ppm	Assay (GLO) .....	>=99.9 %
Ready carbonizable substances .....	Conform	Residue on evaporation .....	<=10 ppm	Heavy metals (Pb) .....	<=0.5 ppm	Nessler test .....	Conform

Code	Size	Packaging	Notes
414854	1l	Glass bottle	
414855	2,5l	Glass bottle	

### Methanol > ERBAPharm-According to pharmacopoeia: DAB-NF-Ph.Eur.

Description .....	Clear colourless liquid	Residue on evaporation .....	<=10 ppm	At 270 nm .....	<= 0.02 AU
Colour .....	<= 10 APHA	Ready oxidizable substances .....	Conform USP-NF	At 290 nm .....	<= 0.01 AU
Identification .....	Positive	Ready carbonizable substances .....	Conform USP-NF	Absorbance UV curve .....	Smooth Ph.Eur.
Density at 20° C .....	0.791 - 0.793	Acetone .....	<=10 ppm	Benzene .....	<= 2 ppm(v/v)
Refractive index at 20°C .....	1.328 - 1.330	Acetone and aldehydes .....	<= 20 ppm	Organic volatile impurities .....	Conform USP-NF
Acidity .....	Conform DAB	Ethyl alcohol .....	<= 100 ppm	Related substances (CPG) .....	Pass test
Acidity or alcalinity .....	Pass test Ph.Eur.	Heavy metals and Zn .....	<=2 ppm	Assay (GLC) .....	>=99.9 %
Acidity (formic acid) .....	<= 10 ppm	Fe .....	<=1 ppm	Origin (BSE/TSE) .....	Synthesis
Alcalinity (NH3) .....	<=1 ppm	<b>Absorbance UV (1cm, ref. water)</b>		Residual solvents (CPMP/ICH/283/95) .....	Conform
Distillation range .....	64 - 65 ° C	At 230 nm .....	<= 0.15 AU		
Water (K.F.) .....	<= 300 ppm	At 250 nm .....	<= 0.05 AU		

Code	Size	Packaging	Notes
309204	1l	Glass bottle	
309203	2,5l	Glass bottle	
309201	25l	Plastic tank	
529100	200l	Metal drum	

### Methanol > RE-Pure

Description .....	Clear colourless liquid	Refractive index at 20° C .....	1.3278 - 1.3298	Water (K.F.) .....	<=0.05 %
Identification .....	Positive	Boiling point .....	64.1 - 65.1 ° C	Subst. reducing KMnO4 .....	<=3 ppm
Colour .....	<=10 APHA	Residue on evaporation .....	<=50 ppm	Assay (GLC) .....	>=99.9 %
Density at 20° C .....	0.791 - 0.793	Acidity (formic acid) .....	<=20 ppm		

Code	Size	Packaging	Notes
309004	1l	Glass bottle	
309001	2,5l	Glass bottle	
528101	5l	Plastic tank	
309008	10l	Plastic tank	
309002	25l	Plastic tank	
309000	200l	Metal drum	
309009	160kg	Metal drum	

## Methanol + 0.1% v/v formic acid

#### Classification transport

ONU: 1230  
 Transport Hazard class: 3  
 Packing group II



**Danger**

2.6/2; H225-3.1.O/3; H301-3.1.D/3; H311-3.1.I/3; H331-3.8/1; H370  
 P210-P241-P304+P340-P307+P311-P403+P235-P405-P501a

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

Description .....	Clear colourless liquid	<b>HPLC gradient</b>		Ca .....	<= 0.5 ppm
Assay (GLC) .....	>= 99.5 %	At 254 nm .....	<= 10 mAU	Mg .....	<= 0.5 ppm
<b>Transmission UV (1cm, ref water)</b>		<b>Test LC-MS TIC (50-2000m/z) ESI (+)</b>		K .....	<= 0.5 ppm
At 230 nm .....	>= 10 %	Sensitive Impurities (reserpine) .....	<= 100 ppb		
At 254 nm .....	>= 90 %	Na .....	<= 2 ppm		

Code	Size	Packaging	Notes
414861	1l	Glass bottle	
414862	2,5l	Glass bottle	

## Methanol + 0,1% v/v trifluoroacetic acid

### Classification transport

ONU: 1230  
 Transport Hazard class: 3  
 Packing group II



### Danger

2.6/2; H225-3.1.O/3; H301-3.1.D/3; H311-3.1.I/3; H331-3.8/1; H370  
 P210-P241-P304+P340-P307+P311-P403+P235-P405-P501a

### Methanol + 0,1% v/v trifluoroacetic acid > RS-For LC/MS

RS

Description .....Clear colourless liquid At 254 nm .....>= 90 % Na .....<= 2 ppm  
 Assay (GLC) .....>= 99.5 % HPLC gradient At 254 nm .....<= 10 mAU Ca .....<= 0.5 ppm  
**Transmission UV (1cm, ref water)** At 210 nm .....>= 5 Test LC-MS TIC (50-2000m/z) ESI (+) Mg .....<= 0.5 ppm  
 At 230 nm .....>= 35 % Sensitive Impurities (reserpine) .....<= 100 ppb K .....<= 0.5 ppm

Code	Size	Packaging	Notes
414871	1l	Glass bottle	
414872	2,5l	Glass bottle	

## Methanol, hydrochloric

### Methanol, hydrochloric > RS-For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611053203	100ml	Bottle	Ref Ph.Eur 1053203

## Methanol-d4

CD<sub>3</sub>OD  
 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

2.6/2; H225-3.1.O/3; H301-3.1.D/3; H311-3.1.I/3; H331-3.8/1; H370  
 P210-P241-P304+P340-P307+P311-P403+P235-P405-P501a

### Methanol-d4 > RS-For NMR-min 99.8%

RS

Code	Size	Packaging	Notes
P5280	10x0,6ml	Glass ampoule	
P5289	10x0,75ml	Glass bottle	
P5283A	5ml	Glass ampoule	
P5284	5x10ml	Glass ampoule	
P5284S	5x10ml	Bottle with sept	
P5285	25ml	Glass bottle	

### Methanol-d4 > RS-For NMR-min 99.96%

RS

Code	Size	Packaging	Notes
P5310	10x0,6ml	Glass ampoule	
P5319	10x0,75ml	Glass ampoule	

## Methanol-d4 + 0.03% TMS

CD<sub>3</sub>OD  
 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

2.6/2; H225-3.1.O/3; H301-3.1.D/3; H311-3.1.I/3; H331-3.8/1; H370  
 P210-P241-P304+P340-P307+P311-P403+P235-P405-P501a

### Methanol-d4 + 0.03% TMS > RS-For NMR-min 99.8%

RS


Code	Size	Packaging	Notes
P5140	10x0,6ml	Glass ampoule	



## Methanol-d3

CD<sub>3</sub>OH  
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**  
2.6/2; H225-3.1.O/3; H301-3.1.D/3; H311-3.1.I/3; H331-3.8/1; H370  
P210-P241-P304+P340-P307+P311-P403+P235-P405-P501a

### Methanol-d3 > RS-For NMR-min 99.5%


RS

Code	Size	Packaging	Notes
P5309	10x0,75ml	Glass ampoule	

## Methanol-d1

CH<sub>3</sub>OD  
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**  
2.6/2; H225-3.1.O/3; H301-3.1.D/3; H311-3.1.I/3; H331-3.8/1; H370  
P210-P241-P304+P340-P307+P311-P403+P235-P405-P501a

### Methanol-d1 > RS-For NMR-min 99.5%

RS

Code	Size	Packaging	Notes
P5275	25ml	Glass bottle	

## DL-Methionine

CH<sub>3</sub>S(CH<sub>2</sub>)<sub>2</sub>CHNH<sub>2</sub>COOH  
Molecular Weight 149,21  
CAS : 59-51-8  
EEC-N : 200-432-1

### DL-Methionine > RPE-For analysis

RPE

Description .....	White crystalline powder	Ammonium .....	<=200 ppm	Sulphate .....	<=200 ppm
Identification (I.R.) .....	Positive	Chloride .....	<=200 ppm	Fe .....	<=10 ppm
pH sol, 1% in H <sub>2</sub> O .....	5.6 - 6.1	Heavy metals (Pb) .....	<=10 ppm	Assay (non-aqueous medium) .....	99.0 - 101.0 % (s.s.)
Loss on drying .....	<=0.2 %	Residue on ignition .....	<=0.1 %		


Code	Size	Packaging	Notes
463126	250g	Plastic bottle	

## 2-Methoxy ethanol

Synonym : Ethylene glycol monomethyl ether

CH<sub>2</sub>OHCH<sub>2</sub>OCH<sub>3</sub>  
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**  
3.7/1B; H360FD-2.6/3; H226-3.1.O/4; H302-3.1.D/4; H312-3.1.I/4; H332-A26  
P210-P241-P304+P340-P403+P235-P405-P501a

### 2-Methoxy ethanol > RPE-For analysis

RPE

Description .....	Clear colourless liquid	Water (K.F) .....	<=0.1 %	Ba .....	<=0.1 ppm	Mn .....	<=0.02 ppm
Identification (I.R.) .....	Conform	Residue on evaporation .....	<=20 ppm	Ca .....	<=0.5 ppm	Ni .....	<=0.02 ppm
Water miscibility .....	Conform	Acidity (acetic acid) .....	<=30 ppm	Cd .....	<=0.05 ppm	Pb .....	<=0.1 ppm
Benzene miscibility .....	Complete	Alcalinity (NH <sub>3</sub> ) .....	<=0.85 ppm	Co .....	<=0.02 ppm	Sn .....	<=0.1 ppm
Diethyl ether miscib. ....	Complete	Carbonyl Compounds (CO) .....	<=25 ppm	Cr .....	<=0.02 ppm	Zn .....	<=0.1 ppm
Density at 20° C .....	0.962 - 0.968	Heavy metals (Pb) .....	<=2 ppm	Cu .....	<=0.02 ppm	Assay (GLC) .....	>=99.5 %
Refractive index at 20°C .....	1.4004 - 1.4044	Peroxides (H <sub>2</sub> O <sub>2</sub> ) .....	<=10 ppm	Fe .....	<=1 ppm		
Boiling point .....	123.5 - 124.5 ° C	Al .....	<=0.5 ppm	Mg .....	<=0.01 ppm		

Code	Size	Packaging	Notes
454021	1l	Glass bottle	
454024	2,5l	Glass bottle	
454023	25kg	Metal tank	
454028	180kg	Metal drum	

# MET

## $\alpha$ -Methoxyphenylacetic acid

$C_8H_8CH(OCH_3)COOH$   
Molecular Weight 166,18  
CAS : 7021-09-2  
EEC-N : 230-300-9



### Warning

3.2/2; H315-3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

### $\alpha$ -Methoxyphenylacetic acid > RPE-For analysis-Reag. Ph. Eur.

**RPE**

Description.....Yellowish crystalline powder      Melting point .....69 - 71 °C      Assay .....>=99 %  
Identification.....Positive      Sulphated ash.....<=0.05 %

Code	Size	Packaging	Notes
407441	5g	Glass bottle	

## Methyl acetate

$CH_3COOCH_3$   
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

2.6/2; H225-3.3/2; H319-3.8/3; H336-EUH066  
P210-P241-P304+P340-P305+P351+P338-P403+P235-P405-P501a

### Methyl acetate > RS-For HPLC Isocratic

**RS**

Refractive index at 20°C .....1.359 - 1.363      Assay (GC).....>= 99.8 %      At 275 nm .....<= 0.1 AU  
Water content (K.F.).....<= 500 mg/Kg      Free acid (as  $CH_3COOH$ ).....<= 25 mg/Kg      At 300 nm .....<= 0.01 AU  
Non volatile residue .....<= 10 mg/Kg      **UV Absorbance**  
Colour .....<= 10 Hazen      At 255 nm .....<= 1 AU

Code	Size	Packaging	Notes
P0043721	2,5l	Glass bottle	

### Methyl acetate > RPE-For analysis

**RPE**

Description.....Clear liquid      Identification.....Positive      Water (K.F.).....<= 0.1 %  
Colour.....<= 10 APHA      Density at 20° C.....0.930 - 0.936      Assay (GLC).....>= 99 %

Code	Size	Packaging	Notes
462017	1l	Glass bottle	

### Methyl acetate > RE-Pure-For synthesis

**RE**

Refractive index at 20°C .....1.359 - 1.363      Colour .....<= 10 Hazen      Free acid (as  $CH_3COOH$ ) .....<= 50 mg/Kg  
Water content (K.F.).....<= 300 mg/Kg      Assay (GC).....>= 99 %  
Non volatile residue .....<= 50 mg/Kg      Methanol.....<= 0.1 %

Code	Size	Packaging	Notes
P0040228	5l	Plastic tank	
P0040240	10l	Metal tank	
P0040248	25l	Metal tank	
P0040268	200l	Metal drum	

## 4-Methylaminophenol sulfate

$(CH_3NHC_6H_4OH)_2 \cdot H_2SO_4$   
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

3.9/2; H373-4.1.A/1; H400-4.1.C/1; H410-3.1.O/4; H302-3.4.S/1; H317  
P260-P261-P280-P314-P330-P501a

### 4-Methylaminophenol sulfate > RPE-For analysis-ACS

**RPE**

Description.....beige crystalline powder      Suitable for phosphate det.....Conform      Assay (oxidimetric) .....>= 98.5 %  
Identification.....Positive      Residue on ignition .....<= 0.15 %

Code	Size	Packaging	Notes
461805	250g	Plastic bottle	

## Methyl benzoate

C<sub>6</sub>H<sub>5</sub>COOCH<sub>3</sub>  
Molecular Weight 136,00  
CAS : 93-58-3  
EEC-N : 202-259-7



**Warning**

3.1.O/4; H302  
P264-P270-P330-P301+P312-P501a

### Methyl benzoate > RPE-For analysis

**RPE**

Description ..... Clear colourless liquid    Refractive index at 20° C ..... 1.51 - 1.52    Acidity (benzoic acid) ..... ≤ 0.12 %    Ni ..... ≤ 0.2 ppm  
Identification ..... Positive    Water (K.F.) ..... ≤ 0.1 %    Cu ..... ≤ 0.2 ppm    Pb ..... ≤ 0.2 ppm  
Density at 20° C ..... 1.086 - 1.090    Residue on evaporation ..... ≤ 100 ppm    Fe ..... ≤ 0.5 ppm    Assay (GLC) ..... ≥ 99 %

Code	Size	Packaging	Notes
462207	1l	Glass bottle	

## 3-Methyl-2-benzothiazolinone hydrazone hydrochloride

C<sub>8</sub>H<sub>9</sub>N<sub>3</sub>S.HCl.H<sub>2</sub>O  
Molecular Weight 233,72  
CAS : 38894-11-0

### Classification transport

ONU: 2811  
Transport Hazard class: 6.1  
Packing group II



**Danger**

3.1.O/3; H301-3.6/2; H351-3.2/2; H315-3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

### 3-Methyl-2-benzothiazolinone hydrazone hydrochloride > RPE-For analysis

**RPE**

Description ..... White powder    Loss on drying ..... ≤ 8 %    Assay (argentimetric) ..... ≥ 97.5 % (s.s.)  
Identification ..... Positive    Sensitivity (group OH) ..... Conform

Code	Size	Packaging	Notes
462238	5g	Glass bottle	

## Methyl blue

Synonyms : *Cotton blue*  
*Acid blue 93*

C<sub>37</sub>H<sub>27</sub>N<sub>3</sub>Na<sub>2</sub>O<sub>9</sub>S<sub>3</sub>  
Molecular Weight 799,80  
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	25g	Glass bottle	

*Dye for histology and microbiology*

## 3-Methyl-1-butanol ▶ Isoamyl alcohol

## 2-Methyl-2-butene

Synonyms : *Amylene*  
*α-Isoamylene*

CH<sub>3</sub>CH:C(CH<sub>3</sub>)<sub>2</sub>  
Molecular Weight 17,13  
CAS : 513-35-9  
EEC-N : 208-156-3

### Classification transport

ONU: 2460  
Transport Hazard class: 3  
Packing group II



**Danger**

2.6/2; H225-3.10/1; H304-3.1.O/4; H302-3.2/2; H315-4.1.C/2; H411  
P210-P241-P301+P310-P403+P235-P405-P501a

### 2-Methyl-2-butene > RPE-For analysis

**RPE**

Description ..... Clear colourless liquid    Refractive index at 20° C ..... 1.3860 - 1.3880  
Identification ..... Positive    Assay (GLO) ..... ≥ 99 %

Code	Size	Packaging	Notes
418253	25ml	Glass bottle	

# MET

## Methylcyclohexane

CH<sub>3</sub>CH(CH<sub>2</sub>)<sub>4</sub>CH<sub>2</sub>  
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

2.6/2; H225-3.10/1; H304-3.2/2; H315-3.8/3; H336-4.1.C/2; H411  
P210-P241-P304+P340-P403+P235-P405-P501a

### Methylcyclohexane > RS-Anhydrous-For analysis

RS

Refractive index at 20°C .....1.421 - 1.425    Colour .....<= 10 Hazen    Total sulphur (S) .....<= 1 ppm  
Water content (K.F.) .....<= 50 mg/Kg    Aromatic compounds .....<= 2 ppm  
Non volatile residue .....<= 10 mg/Kg    Assay (GC) .....>= 99 %  
Density at 20°C .....0.767 - 0.770    Water (K.F.) .....<= 0.03 %  
Refractive index at 20°C .....1.419 - 1.427    Residue on evaporation .....<= 50 ppm  
Boiling point .....100.15 - 100.65 °C

Code	Size	Packaging	Notes
P0581016	1l	Glass bottle	

### Methylcyclohexane > RE-Pure

RE

Description .....Clear liquid    Benzene .....<= 200 ppm    Assay (GLC) .....>= 99.0 % (GLC)  
Density at 20°C .....0.767 - 0.770    Total sulphur (S) .....<= 2 ppm    Acidity or alkalinity .....Passes test  
Refractive index at 20°C .....1.419 - 1.427    Water (K.F.) .....<= 0.03 %  
Boiling point .....100.15 - 100.65 °C    Residue on evaporation .....<= 50 ppm

Code	Size	Packaging	Notes
528264	1l	Glass bottle	
528261	5l	Plastic tank	
528260	25l	Metal tank	
528262	200l	Metal drum	

## 4-Methyl-1,2-dimercaptobenzene

CH<sub>3</sub>C<sub>6</sub>H<sub>3</sub>(SH)<sub>2</sub>  
Molecular Weight 156,27  
CAS : 496-74-2  
EEC-N : 207-828-3



### Danger

3.3/1; H318-3.1.O/4; H302-3.8/3; H335-3.2/2; H315  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

### 4-Methyl-1,2-dimercaptobenzene > RPE-For analysis

RPE

Description .....Yellowish crystals    Identification .....Positive    Assay (GLC) .....>= 94 %

Code	Size	Packaging	Notes
462457	1g	Glass bottle	

## Methylene blue

C<sub>16</sub>H<sub>18</sub>N<sub>3</sub>SCl.3H<sub>2</sub>O  
Molecular Weight 373,90  
CAS : 7220-79-3  
EEC-N : 200-515-2



### Warning

3.1.O/4; H302-3.2/2; H315-3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

### Methylene blue > RS-For analysis-C.I. 52015

RS

Description .....Powder blue-green    Identification .....Positive

Code	Size	Packaging	Notes
428984	100g	Plastic bottle	

Redox indicator purple - colorless

▶ **Methylene blue > RPE-For analysis-C.I. 52015**

Description .....Powder blue-green Identification.....Positive Functionality.....Conform

Code	Size	Packaging	Notes
429981	500g	Plastic bottle	

*Redox indicator purple - colorless*▶ **Methylene blue saturated solution****Classification transport**

ONU: 1993

Transport Hazard class: 3

Packing group II

**Danger**

2.6/2; H225-3.3/2; H319

P210-P241-P243-P305+P351+P338-P403+P235-P501a

▶ **Methylene blue saturated solution > RPE-For analysis**Description .....Blue liquid Density at 20° C.....0.809 - 0.815 g/ml  
Identification.....Positive Assay .....1.0 - 1.2 % (p/v)

Code	Size	Packaging	Notes
E429031	250ml	Glass bottle	

▶ **Methylene blue solution 1%****Warning**

3.3/2; H319

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

▶ **Methylene blue solution 1% > RPE-For analysis**Description .....Blue liquid Density at 20° C.....~ 1.00 g/ml  
Identification.....Positive Assay (oxidimetric) .....0.9 - 1.1 %

Code	Size	Packaging	Notes
E429011	500ml	Glass bottle	

## ▶ 2-Methylbutane ▶ Isopentane

▶ **Methyl green**C<sub>26</sub>H<sub>33</sub>Cl<sub>2</sub>N<sub>3</sub>

Molecular Weight 458,48

CAS : 22383-16-0

**Warning**

3.2/2; H315-3.3/2; H319-3.8/3; H335

P261-P271-P304+P340-P305+P351+P338-P405-P501a

▶ **Methyl green > RS-For microscopy-C.I. 42585**

Description .....Dark red powder Identification.....Positive

Code	Size	Packaging	Notes
491351	10g	Glass bottle	

*Dye for cytology*

# MET

## Methyl 4-hydroxybenzoate

Synonyms : *Methyl paraben*  
*p-Hydroxybenzoic acid methyl ester*

HOC<sub>6</sub>H<sub>4</sub>COOCH<sub>3</sub>  
Molecular Weight 152,15  
CAS : 99-76-3  
EEC-N : 202-785-7



### Warning

3.2/2; H315-3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

### Methyl 4-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 (HCl).....Conform Ph.Eur.  
Related substances.....Conform Ph.Eur.  
Organic volatile impurities.....Conform USP-NF  
Melting point.....125 - 128 °C  
Sulphated ash.....<= 0.1 %  
Assay (acidimetric).....99.0 - 100.5 %  
Origin (BSE/TSE).....Synthesis

Code	Size	Packaging	Notes
354007	1kg	Plastic bottle	

## Methyl iodide

Synonym : *Iodomethane*

CH<sub>3</sub>I  
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

3.1.O/3; H301-3.1.I/3; H331-3.6/2; H351-3.1.D/4; H312-3.2/2; H315-3.8/3; H335  
P261-P271-P280-P304+P340-P405-P501a

### Methyl iodide > RPE-For analysis

RPE

Description .....Clear liquid  
Identification.....Positive  
Colour.....<=100 APHA  
Density at 20° C.....2.276 - 2.284  
Refractive index at 20°C.....1.5273 - 1.5313  
Boiling point.....42.0 - 43.0 °C  
Water (K.F).....<=300 ppm  
Residue on evaporation.....<=50 ppm  
Aidity(Hydrogen iodide).....<=0.1 %  
Assay (GLC).....>=99 %

Code	Size	Packaging	Notes
462601	50ml	Glass bottle	
462604	250ml	Glass bottle	

Stabilized with silver.

## Methylisoamyl ketone

C<sub>7</sub>H<sub>14</sub>O

### Methylisoamyl ketone > RE-Pure-For synthesis

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 CH<sub>3</sub>COOH).....<= 200 mg/Kg

Code	Size	Packaging	Notes
P0900221	2,5l	Glass bottle	

## Methyl isobutyl ketone

CH<sub>3</sub>COCH<sub>2</sub>CH(CH<sub>3</sub>)<sub>2</sub>  
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

2.6/2; H225-3.1.I/4; H332-3.3/2; H319-3.8/3; H335-EUH066  
P210-P241-P304+P340-P305+P351+P338-P403+P235-P405-P501a

### Methyl isobutyl ketone > RS-Anhydrous-For analysis

RS

Refractive index at 20°C.....1.394 - 1.398  
Density d<sub>20</sub>/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 CH<sub>3</sub>COOH).....<= 50 mg/Kg

Code	Size	Packaging	Notes
P0601016	1l	Glass bottle	

Keep in a well-ventilated place

## Methyl isobutyl ketone > RPE-For analysis-ACS-Reag.Ph.Eur.-Reag.USP

Description .....	Clear liquid	Density at 20° C .....	0.797 - 0.805	Alcalinity (NH <sub>3</sub> ) .....	<=10 ppm	Zn .....	<=0.1 ppm
Colour .....	<=10 APHA	Refractive index at 20°C .....	1.3930 - 1.3990	Cd .....	<=0.05 ppm	Assay (GLC) .....	>=99.5 %
Identification (I.R.) .....	Conform	Boiling point .....	115.7 - 116.7 °C	Cu .....	<=0.1 ppm	Acetone .....	<= 0.1 %
Alcohol miscibility .....	Complete	Water (K.F.) .....	<=0.05 %	Fe .....	<=0.1 ppm	Mesityl and isomesityl oxide .....	<= 0.1 %
Benzene miscibility .....	Complete	Residue on evaporation .....	<=10 ppm	Ni .....	<=0.1 ppm	4-methyl-2-pentanol .....	<= 0.1 %
Diethyl ether miscib. ....	Complete	Acidity .....	<=0.002 meq/g	Pb .....	<=0.1 ppm		

Code	Size	Packaging	Notes
461945	1l	Glass bottle	
461941	5l	Plastic tank	

Keep in a well-ventilated place

## Methyl isobutyl ketone > RE-Pure

RE

Description .....	Clear liquid	Boiling point .....	115,7 - 116,7 °C	Assay (GLC) .....	>= 99.5 %
Identification .....	Positive	Acidity (Acetic ac.) .....	<= 50 ppm	Acetone .....	<= 0.1 %
Density at 20°C .....	0,797 - 0,805	Residue on evaporation .....	<= 30 ppm	Colour .....	<= 15 APHA
Refractive index at 20°C .....	1.3930 - 1.3990	Water (K.F.) .....	<= 1000 ppm		

Code	Size	Packaging	Notes
528980	5l	Plastic tank	
528981	25l	Metal tank	

Keep in a well-ventilated place

## Methyl isothiocyanate

CH<sub>3</sub>NCS  
Molecular Weight 73,12  
CAS : 556-61-6  
EEC-N : 209-132-5

**Classification transport**  
ONU: 2477  
Transport Hazard class: 6.1  
Packing group I



**Danger**

3.1.O/3; H301-3.1.I/3; H331-3.2/1B; H314-4.1.A/1; H400-4.1.C/1; H410-3.4.S/1; H317  
P260-P261-P304+P340-P305+P351+P338-P405-P501a

## Methyl isothiocyanate > RPE-For analysis

RPE

Description .....	Yellow-brown mass xx.na	Boiling point .....	118 - 120 ° C
Identification .....	Positive	Melting point .....	33 - 36 ° C

Code	Size	Packaging	Notes
462531	100g	Glass bottle	

For derivatization. Keep 0 ÷ 4 C.

## Methyl orange

C<sub>14</sub>H<sub>14</sub>N<sub>3</sub>NaO<sub>3</sub>S  
Molecular Weight 327,34  
CAS : 547-58-0  
EEC-N : 208-925-3

**Classification transport**  
ONU: 3143  
Transport Hazard class: 6.1  
Packing group III



**Danger**

3.1.O/3; H301  
P264-P270-P301+P310-P330-P405-P501a

## Methyl orange > RPE-ACS-For analysis-C.I. 13025-Reag. Ph.Eur.-Reag. USP

RPE

Description .....	Yellow-orange powder	Colour change .....	Red - Yellow
Identification .....	Positive	pH range .....	3.2 - 4.4 pH

Code	Size	Packaging	Notes
423503	50g	Plastic bottle	
423505	250g	Plastic bottle	
423501	500g	Plastic bottle	
423502	25kg	Bag	

Dye for microscopy (histology). Indicator acid - base (pH 3.0 ÷ 4.4).

# MET

## Methyl orange solution 0.1%

Methyl orange solution 0.1% > RS-For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611054802	100ml	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 Sensitivity(pH 3.1-4.4).....Conform  
Identification.....Positive Colour change.....red-yellow

Code	Size	Packaging	Notes
E423562	500ml	Glass bottle	

Acid-base indicator.

## Methyl orange mixed solution

Methyl orange mixed solution > RS-For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611054801	100ml	Bottle	Ref Ph.Eur 1054801

Colour change: pH 3.0 (orange) to pH 4.4 (olive-green)

2-Methylpentane ▶ Isohexane

## 3-Methyl-1-phenyl-5-pyrazolone

$C_6H_5NN:C(CH_3)CH_2CO$   
Molecular Weight 174,2  
CAS : 89-25-8  
EEC-N : 201-891-0



Warning

3.2/2; H315-3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

3-Methyl-1-phenyl-5-pyrazolone > RPE-For analysis

RPE

Description.....Yellowish crystalline powder Melting point .....128 - 130 ° C  
Identification.....Positive Assay (non-aqueous medium) .....>=98 %

Code	Size	Packaging	Notes
462541	100g	Plastic bottle	

2-Methyl-1-propanol ▶ Isobutyl alcohol

## n-Methyl-2-pyrrolidone

Synonyms : NMP  
N-Methyl-2-pyrrolidone

$CH_2(CH_2)_2CONCH_3$   
Molecular Weight 99,13  
CAS : 872-50-4  
EEC-N : 212-828-1



Danger

3.7/1B; H360D-3.2/2; H315-3.3/2; H319-3.8/3; H335-A26  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

n-Methyl-2-pyrrolidone > RS-Anhydrous-For analysis

RS

Appearance.....Clear liquid Refractive index at 20°C .....1.466 - 1.471 Assay (GC).....>= 99.8 %  
Identification.....Conform Water content (K.F.).....<= 200 mg/Kg Butyrolactone.....<= 500 mg/Kg  
Density d20/4 .....1.026 - 1.032 Colour .....<= 20 Hazen Monomethylamine.....<= 50 mg/Kg

Code	Size	Packaging	Notes
P0871010	200ml	Bottle with sept	



## 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	1l	Glass bottle	
P0873521	2,5l	Glass bottle	
P0873541	10l	Plastic tank	
P0873549	25l	Plastic tank	
P0873566	200l	Polythene-metal drum	

## n-Methyl-2-pyrrolidone > RPE-For analysis

RPE

Description .....Clear colourless liquid  
 Identification .....Positive  
 Density at 20° C .....1.026 - 1.032  
 Refractive index at 20°C .....1.4670 - 1.4710  
 Water (K.F.) .....<=0.05 %  
 Butyrolactone .....<= 500 ppm  
 Monometilamina .....<= 50 ppm  
 Assay (GLC) .....>=99.8 %

Code	Size	Packaging	Notes
462872	1l	Glass bottle	
462874	23kg	Glass-polystyrene container	
462873	210kg	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	1l	Glass bottle	
528343	2,5l	Glass bottle	
528340	5l	Plastic tank	
528346	25l	Metal tank	

## Methyl red

C<sub>15</sub>H<sub>15</sub>N<sub>3</sub>O<sub>2</sub>  
 Molecular Weight 269,31  
 CAS : 493-52-7  
 EEC-N : 207-776-1

## Methyl red > RPE-ACS-For analysis-C.I. 13020

RPE

Description .....Purple powder  
 Identification .....Positive  
 Melting point .....179 - 182 °C  
 Appear of water sol. ....Conform  
 Appear. of alcohol sol. ....Conform  
 Colour change .....red-yellow  
 pH range .....4.2 - 6.2

Code	Size	Packaging	Notes
476883	50g	Plastic bottle	
476881	250g	Plastic bottle	

## Methyl red solution 0.2% in ethanol

**Classification transport**  
 ONU: 1170  
 Transport Hazard class: 3  
 Packing group III



**Warning**  
 2.6/3; H226  
 P210-P241-P243-P303+P361+P353-P403+P235-P501a

## Methyl red solution 0.2% in ethanol > RPE-For analysis

RPE

Description .....Purple liquid  
 Identification .....Positive  
 pH sensitivity .....4.2 - 6.2  
 Colour change .....yellow red

Code	Size	Packaging	Notes
E476915	250ml	Glass bottle	

Indicator series Clark indicator acid-base (pH 4.4 ÷ 6.2).

# MET

## Methyl red solution 0.1% in ethanol

### Classification transport

ONU: 1170  
Transport Hazard class: 3  
Packing group II



### Danger

2.6/2; H225  
P210-P241-P243-P303+P361+P353-P403+P235-P501a

### 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	250ml	Glass bottle	

Indicator series Clark indicator acid-base (pH 4.4 ÷ 6.2).

## Methyl red solution

### Methyl red solution > RS-For analysis according to Ph. Eur. Chap. 4.1.1

**RS**

Code	Size	Packaging	Notes
611055102	100ml	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	100ml	Bottle	Methyl red solution TS

## Methyl red mixed solution

### Classification transport

ONU: 1993  
Transport Hazard class: 3  
Packing group II



### Danger

2.6/2; H225  
P210-P241-P243-P303+P361+P353-P403+P235-P501a

### Methyl red mixed solution > RS-For analysis according to Ph. Eur. Chap. 4.1.1

**RS**

Code	Size	Packaging	Notes
611055101	100ml	Bottle	Ref Ph.Eur 1055101

Colour change: pH 5.2 (red-violet) to pH 5.6 (green)

## Methyl salicylate

Synonyms : 2-Hydroxybenzoic acid methyl ester  
Methyl 2-hydroxybenzoate

HOC6H4COOCH3  
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

3.1.0/4; H302-3.3/2; H319  
P280-P305+P351+P338-P330-P337+P313-P301+P312-P501a

### Methyl salicylate > ERBAPharm-According to pharmacopoeia: BP-DAB-FU-Ph.Eur.-Ph.Franc.

**ERBAPharm**

Description .....Yellowish liquid Refractive index at 20°C .....1.535 - 1.538 Acidity.....Conform Ph.Eur.  
Identification.....Positive Assay (saponification) .....99.0 - 100.5 %  
Relative density.....1.180 - 1.186 Appearance of solution.....Conform Ph.Eur.

Code	Size	Packaging	Notes
354152	1l	Glass bottle	
354155	25kg	Plastic tank	

## 2-Methyltetrahydrofuran

C<sub>5</sub>H<sub>10</sub>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**  
2.6/2; H225-3.3/2; H319-3.8/3; H335-EUH019  
P210-P241-P304+P340-P305+P351+P338-P403+P235-P405-P501a

### 2-Methyltetrahydrofuran > RE-Pure-For synthesis


RE

Refractive index at 20°C .....1.404 - 1.408 Assay (GC).....>= 99.9 % Peroxides (as H<sub>2</sub>O<sub>2</sub>) .....<= 100 mg/Kg  
Water content (K.F.).....<= 300 mg/Kg Stabilizer (ionol).....150 - 400 mg/Kg

Code	Size	Packaging	Notes
P9960216	1l	Glass bottle	
P9960221	2,5l	Glass bottle	
P9960229	5l	Plastic tank	
P9960248	25l	Metal tank	
P9960268	200l	Metal drum	

## 6-Methyl-2-thiouracil

C<sub>5</sub>H<sub>6</sub>N<sub>2</sub>OS  
Molecular Weight 142,18  
CAS : 56-04-2  
EEC-N : 200-252-3

 **Warning**  
3.1.0/4; H302-3.1.D/4; H312  
P280-P312-P330-P363-P301+P312-P501a

### 6-Methyl-2-thiouracil > RPE-For analysis


RPE

Description .....White powder Heavy metals (Pb).....<=20 ppm Fe.....<=10 ppm  
Identification.....Positive Residue on ignition .....<=0.1 % Assay(mercurymetric).....99 - 100 %  
Loss on drying.....<=0.5 % Thiourea.....<=0.1 %

Code	Size	Packaging	Notes
462921	10g	Glass bottle	

## Methylthymol blue sodium salt

C<sub>37</sub>H<sub>40</sub>O<sub>13</sub>N<sub>2</sub>Na<sub>4</sub>S  
Molecular Weight 844,76  
CAS : 1945-77-3  
EEC-N : 217-743-3

 **Warning**  
3.2/2; H315-3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

### Methylthymol blue sodium salt > RPE-For analysis

RPE

Description .....Greenish brown powder Identification.....Positive

Code	Size	Packaging	Notes
429021	1g	Glass bottle	


**Complexometric indicator**

## Methyl violet

Synonym : Basic Violet 1

C<sub>24</sub>H<sub>27</sub>N<sub>3</sub>.HCl  
Molecular Weight 393,96  
CAS : 8004-87-3  
EEC-N : 210-042-3

**Classification transport**  
ONU: 3143  
Transport Hazard class: 6.1  
Packing group III

 **Danger**  
3.1.0/3; H301-3.1.D/3; H311-3.1.I/2; H330  
P260-P271-P280-P304+P340-P405-P501a

### Methyl violet > RPE-For analysis-C.I. 42535

RPE

Description .....Green powder Loss on drying .....<=10 % pH range .....0.1 - 2.0  
Identification.....Positive Residue on ignition .....<=5 %

Code	Size	Packaging	Notes
491703	50g	Glass bottle	

**Dye for microscopy (bacteriology-Botanical-histology). Indicator acid - base (pH 0.1 ÷ 2.0).**

# MET

## Methyl yellow

(CH<sub>3</sub>)<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>N:NC<sub>6</sub>H<sub>5</sub>  
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

3.1.O/3; H301-3.4.S/1; H317  
P261-P280-P301+P310-P330-P405-P501a

### 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	25g	Glass bottle	

Acid-base indicator (pH 2.9 ÷ 4.0).

## Mixture C.H.M.

### Classification transport

ONU: 1228  
Transport Hazard class: 3  
Packing group II



### Danger

2.6/2; H225-3.1.D/3; H311-3.6/2; H351-3.8/2; H371-H336-3.9/2; H373-4.1.A/1; H400-4.1.C/1; H410-3.1.O/4; H302-3.2/2; H315  
P210-P241-P309+P311-P403+P235-P405-P501a

### Mixture C.H.M. > RPE-For analysis

RPE

Description ..... Clear colourless liquid      Density at 20°C ..... 1.070 - 1.080  
Colour ..... <= 10 APHA      Assay (GLC) ..... Conform

Code	Size	Packaging	Notes
524411	2,5l	Glass bottle	
524412	5l	Plastic tank	

Composition: Chloroforme stab. Amylene : 49%(v/v) n-Heptane : 49%(v/v) Methanol : 2%(v/v)

## Microscopy, dyes

Alcian blue 8GX .....18	Fast green FCF .....204	Nuclear fast red .....362
Alkali blue 6B .....19	Fluorescein acid .....208	Orange G .....364
Aniline blue soluble in alcohol .....50	Fluorescein sodium salt .....208	Orange II .....364
Aniline blue soluble in water .....50	Fuchsin acid .....214	Orcein .....364
Auramine O .....56	Fuchsin basic .....214	Phloxin B .....389
Azure II .....58	Gentian violet .....217	Ponceau red BS .....396
Azure II eosin .....58	Hematoxylin .....226	Ponceau red S .....396
Brilliant cresyl blue .....75	Light green .....293	Pyronine Y .....437
Brilliant green .....76	Malachite green .....307	Rosolic acid .....443
Celestine blue B .....113	May Grunwald's stain .....313	Safranine T .....444
Chrysoidine Y .....131	Methyl blue .....327	Sudan black B .....522
Congo red .....135	Methyl green .....329	Sudan III .....522
Coomassie brilliant blue R 250 .....136	Methyl violet .....335	Tartrazine .....538
Crystal violet .....145	Methylene blue .....328	Tetrazolium blue .....545
Eosin B .....182	Naphthol yellow S .....343	Toluidine blue .....559
Eosin Y .....182	Neutral red .....346	
Erythrosin extra B .....185	Nigrosine .....351	

## Microscopy, embedding media

Paraffin 46°C-48°C .....372	Paraffin 51°C-53°C .....371	Paraffin 57°C-59°C .....370
Paraffin 50°C-54°C - Erbaplast X-TRA (with DMSO) .....371	Paraffin 54°C-58°C - New Erbaplast (without DMSO) .....371	Paraffin pellets 60°C-62°C .....372
Paraffin 50°C-54°C - New Erbaplast X-TRA (without DMSO) .....371	Paraffin 56°C-58°C - Erbaplast (with DMSO) .....370	

## Microscopy, fixing media

Acetic acid glacial .....2	Fixative liquid without acetic acid .....207	Formaldehyde acetic .....212
Chromium (VI) oxide .....130	Formaldehyde 10% v/v according to Lillie .....211	Hexachloroplatinic acid hexahydrate .....230
Fixative AFA liquid .....205	Formaldehyde 30% w/v .....210	Mercury (II) chloride .....316
Fixative Bouin Duboscq Brazil liquid .....206	Formaldehyde 35% w/w .....210	Nitric acid 65% .....355
Fixative Bouin Hollande liquid .....206	Formaldehyde 4% w/v buffered at pH 6.9 .....211	Trichloroacetic acid .....560
Fixative Bouin liquid .....206	Formaldehyde 40% w/v .....209	
Fixative Davidson liquid .....206	Formaldehyde 40% w/v neutralized .....209	

## Microscopy, immersion media

α-Bromonaphthalene.....	79	Ethylene glycol.....	196	Immersion oil.....	259
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## Microscopy, mounting media

Aquovitrex Erba.....	54	Eukitt.....	201	Histovitrex-Erba.....	236
Canada balsam.....	110	Gelatine.....	217	Oil of cedar wood.....	363

## Microscopy, reagents and staining solutions

Alcian Blue 8GS 1%.....	18	Esbach's reagent.....	185	Mucicamine hydroalcoholic solution.....	341
Amman's lactophenol solution.....	28	Folin-Ciocalteu's reagent.....	209	Neutral red.....	346
Azure II eosin.....	58	Gentian violet carbolated solution.....	217	Orange II.....	364
Benedict's reagent.....	65	Giemsa's reagent.....	218	Papanicolaou Haematoxylin solution.....	369
Bismarck brown R.....	70	Gowers' reagent.....	224	Papanicolaou solution EA 50.....	369
Carbolated auramine solution.....	111	Gram complete kit.....	224	Papanicolaou solution OG 6.....	370
Carbolated methylene blue hydroalcoholic solution.....	111	Haemalum solution.....	225	Safranin T hydroalcoholic solution.....	445
Carbolated toluidine blue hydroalcoholic solution.....	111	Hematoxyline solution.....	227	Schiff's reagent.....	447
Crystal violet oxalate.....	145	Lactophenol blue solution.....	285	Shorr's stain.....	449
Differentiator for kit Gram.....	168	Lugol concentrated solution.....	297	Toluidine blue.....	559
Ehrlich's reagent.....	181	Lugol solution in water.....	298	Turk's reagent.....	571
Eosin Y solution aqueous.....	183	May Grunwald reagent.....	313	Wright's stain solution in methanol.....	577
Eosin Y solution alcoholic.....	183			Ziehl-Neelsen's reagent.....	581

## Microscopy, solvents for dehydration, de-waxing and diaphanization

2-Methoxy ethanol.....	325	Ethanol 96°.....	188	Propan-2-ol.....	429
Acetone.....	9	Ethanol absolute anhydrous.....	185	Solvent Plus.....	507
Benzene.....	65	Glycerol.....	220	Tetrahydrofuran.....	542
Benzyl benzoate.....	69	Histolemon-Erba.....	235	Toluene.....	556
Chloroform.....	121	Methanol.....	320	Water.....	574
Decalcifying agent.....	151	Methyl benzoate.....	327	Xylene, mix of isomers.....	577
Diethyl ether.....	165	Oil of cedar wood.....	363		

## Mixture for checking solderings

### Classification transport

ONU: 1219  
 Transport Hazard class: 3  
 Packing group II



### Danger

2.6/2; H225-3.3/2; H319-3.8/3; H336  
 P210-P241-P304+P340-P305+P351+P338-P403+P235-P405-P501a

M

### Mixture for checking solderings > RS-For checking packaging solderings

RS

Description.....Clear purple liquid Density at 20°C.....0.788 - 0.798

Code	Size	Packaging	Notes
502671	5l	Plastic tank	

## Mixture iodine/water/pyridine/THF

### Mixture iodine/water/pyridine/THF > RPE-For analysis

RPE

Refractive index at 20°C.....1.409 - 1.413

Code	Size	Packaging	Notes
P0833521	2,5l	Glass bottle	

## Mixture phenol/o-dichlorobenzene

### Classification transport

ONU: 2206  
 Transport Hazard class: 6.1  
 Packing group II



### Danger

3.1.1/3; H331-3.2/1B; H314-3.5/2; H341-3.9/2; H373-4.1.A/1; H400-4.1.C/1; H410-3.1.O/4; H302-3.1.D/4; H312-3.8/3; H335  
 P260-P261-P304+P340-P305+P351+P338-P405-P501a

### Mixture phenol/o-dichlorobenzene > RPE-For analysis

RPE

Description.....Yellow colourless liquid Density at 20°C.....1.16 - 1.17 o-Dichlorobenzene.....48 - 52 %  
 Identification.....Positive Phenol.....48 - 52 %

Code	Size	Packaging	Notes
463411	2,5l	Glass bottle	

Product specifications are subject to changes.  
 Please visit our website for updates.

## Mixtures for residual solvents analysis

### Mixtures for residual solvents analysis > RS-For analysis according to Ph. Eur. Chap. 2.4.24

RS

Code	Size	Packaging	Notes
506552	1ml	Glass ampoule	Mixture of solvents 5 Class 1 (Recommended by the Ph. Eur. / ICH Class 1)
506562	1ml	Glass ampoule	Mixture of 13 Class 2 solvents (Recommended by the Ph. Eur. / ICH Class 2)
506572	1ml	Glass ampoule	Mixture of 10 Class 2 solvents (Recommended by the Ph. Eur. / ICH Class 2)
506582	1ml	Glass ampoule	Mixture of 6 Class 2 solvents (Recommended by the Ph. Eur. / ICH Class 2)
506551	1,5ml	Glass ampoule	Mixture of solvents 5 Class 1 (Recommended by the Ph. Eur. / ICH Class 1)
506561	1,5ml	Glass ampoule	Mixture of 13 Class 2 solvents (Recommended by the Ph. Eur. / ICH Class 2)
506571	1,5ml	Glass ampoule	Mixture of 10 Class 2 solvents (Recommended by the Ph. Eur. / ICH Class 2)
506581	1,5ml	Glass ampoule	Mixture of 6 Class 2 solvents (Recommended by the Ph. Eur. / ICH Class 2)

## Molecular sieves 13X

### Molecular sieves 13X > RS-Pellets 1/16"

RS

Description.....cylinders grayish Identification.....Positive

Code	Size	Packaging	Notes
477861	250g	Glass bottle	

### Molecular sieves 13X > RS-Pellets 1/8"

RS

Description.....Spheres 1/8" Identification.....Positive

Code	Size	Packaging	Notes
477841	250g	Glass bottle	

### Molecular sieves 13X > RS-Powder

RS

Description.....Powder Identification.....Positive

Code	Size	Packaging	Notes
477831	250g	Bag	

### Molecular sieves 13X > RE-Pure

RS

Code	Size	Packaging	Notes
P1860027	5kg	Metal bucket	

## Molecular sieves 3 A

### 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	250g	Glass bottle	

### Molecular sieves 3 A > RS-Pellets 1/8"

RS

Description.....Spheres 1/8" Identification.....Positive

Code	Size	Packaging	Notes
477721	250g	Glass bottle	

## ▶ Molecular sieves 3 A &gt; RE-Pure

RS

Code	Size	Packaging	Notes
P1810017	1kg	Plastic bottle	
P1810057	50kg	Drum	

## ▶ Molecular sieves 3 A deuterated

## ▶ Molecular sieves 3 A deuterated &gt; RE-Pure

RS

Code	Size	Packaging	Notes
P557X	5g	Glass bottle	

## ▶ Molecular sieves 4 A

## ▶ Molecular sieves 4 A &gt; RS-Pellets

RS

Code	Size	Packaging	Notes
P1820057	50kg	Drum	

## ▶ Molecular sieves 4 A &gt; RS-Pellets 1/16"

RS

Description .....Balls 1 / 16 " Identification.....Positive

Code	Size	Packaging	Notes
477791	250g	Glass bottle	

## ▶ Molecular sieves 4 A &gt; RE-Pure

RS

Code	Size	Packaging	Notes
P1820017	1kg	Plastic bottle	
P1820027	5kg	Metal bucket	

## ▶ Molecular sieves AW 500

## ▶ Molecular sieves AW 500 &gt; RS-Pellets 1/16"

RS

Description .....Balls 1 / 16 " Identification.....Positive

Code	Size	Packaging	Notes
477881	250g	Glass bottle	

## ▶ Molybdenum standard solution

## ▶ Molybdenum standard solution &gt; RS-Standard for ICP-MS

RS

Code	Size	Packaging	Notes
505721	50ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrofluoric acid and nitric acid
505722	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrofluoric acid and nitric acid
505725	100ml	Plastic bottle	conc. 100 ppm Matrix : Hydrofluoric acid and nitric acid

## ▶ Molybdenum standard solution &gt; RS-Standard for ICP

RS

Code	Size	Packaging	Notes
503731	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Ammonium hydroxide
503735	100ml	Plastic bottle	conc. 10.000 ppm Matrix : Ammonium hydroxide
503733	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Ammonium hydroxide
503737	500ml	Plastic bottle	conc. 10.000 ppm Matrix : Ammonium hydroxide

## Molybdenum standard solution > RS-Standard for AAS

RS

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

Code	Size	Packaging	Notes
E497565	100ml	Glass bottle	conc. 1.000 ppm Matrix : Ammonium hydroxide
E497561	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Ammonium hydroxide

## 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	Normex	Plastic ampoule	conc. 1.000 ppm Matrix : Ammonium hydroxide

## Molybdenum (VI) oxide

Synonym : Molybdenum trioxide

MoO<sub>3</sub>  
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**  
3.6/2; H351-3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

## Molybdenum (VI) oxide > RPE-For analysis

RPE

Description .....White-green powder Chloride .....<= 50 ppm Sulphate .....<= 200 ppm  
Identification.....Positive Phosphate .....<= 5 ppm Fe.....<= 50 ppm  
Ammonium.....<= 100 ppm Nitrate .....<= 100 ppm Assay (oxidimetric) .....>= 99.5 %

Code	Size	Packaging	Notes
422004	100g	Glass bottle	
422005	250g	Glass bottle	

## Molybdovanadic reagent

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

**Danger**  
3.2/1B; H314-3.1.O/4; H302  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

## Molybdovanadic reagent > RS-For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611056700	100ml	Bottle	Ref Ph.Eur 1056700

## Mordant black 11 triturate

## Mordant black 11 triturate > RS-For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611056801	100g	Bottle	Ref Ph.Eur 1056801

Storage: protected from light

## Morin

C<sub>15</sub>H<sub>10</sub>O<sub>7</sub>.2H<sub>2</sub>O  
Molecular Weight 338,27  
CAS : 6472-38-4  
EEC-N : 207-542-9

## Morin > RPE-For analysis-C.I. 75660

RPE

Description .....Brown powder Residue on ignition.....<= 1 %  
Identification.....Positive Aluminium sensitivity.....- 1 µg/ml

Code	Size	Packaging	Notes
463508	5g	Glass bottle	

Reagent for the determination of Al



## Morpholine

Synonym : Tetrahydro-1,4-oxazine

NH(CH<sub>2</sub>)<sub>2</sub>OCH<sub>2</sub>CH<sub>2</sub>  
 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

3.2/1B; H314-2.6/3; H226-3.1.O/4; H302-3.1.D/4; H312-3.1.I/4; H332  
 P210-P241-P304+P340-P305+P351+P338-P403+P235-P405-P501a

## Morpholine &gt; RPE-For analysis-ACS-Reag.Ph.Eur.-Reag.USP

RPE

Description .....Clear liquid Identification.....Positive Boiling point .....126.0 - 130.0 °C  
 Colour.....<= 10 APHA Assay (acidimetric).....>= 99.0 % Density at 20°C .....~ 1.01

Code	Size	Packaging	Notes
463453	1l	Glass bottle	

## Mucicarmine hydroalcoholic solution

## Classification transport

ONU: 1170  
 Transport Hazard class: 3  
 Packing group II



## Danger

2.6/2; H225  
 P210-P241-P243-P303+P361+P353-P403+P235-P501a

## Mucicarmine hydroalcoholic solution &gt; RS-For microscopy

RS

Description .....Red clear liquid Identification.....Positive

Code	Size	Packaging	Notes
463531	100ml	Glass bottle	

Ethanol-water mixture (50:50).

## Multianions standard for ion chromatography

Multianions standard for ion chromatography >  
RS-Standard solution for ion chromatography

RS

Code	Size	Packaging	Notes
504526	100ml	Bottle	7 anions at 1g/l - Matrix : Water

Multianions standard for ion chromatography >  
RS-Quality control standard solution for ion chromatography

RS

Code	Size	Packaging	Notes
504527	100ml	Bottle	7 anions - Matrix : Water

## Multielement standard for ICP

## Multielement standard for ICP &gt; RS-Optimisation solution

RS

Code	Size	Packaging	Notes
504396	500ml	Bottle	13 elements 0.01 mg/ml each. Matrix : Nitric acid

## Multielement standard for ICP &gt; RS-Quality control standard for ICP, ICP-MS

RS

Code	Size	Packaging	Notes
504350	100ml	Plastic bottle	22 elements, 1 ppm each. Matrix : Nitric acid
504354	100ml	Plastic bottle	33 elements, 1 ppm each. Matrix : Hydrofluoric acid and nitric acid
504356	100ml	Plastic bottle	40 elements, 1 ppm each. Matrix : Hydrofluoric acid and nitric acid
504351	500ml	Plastic bottle	22 elements, 1 ppm each. Matrix : Nitric acid
504353	500ml	Plastic bottle	28 elements, 1 ppm each. Matrix : Nitric acid
504355	500ml	Plastic bottle	33 elements, 1 ppm each. Matrix : Hydrofluoric acid and nitric acid
504357	500ml	Plastic bottle	40 elements, 1 ppm each. Matrix : Hydrofluoric acid and nitric acid

## ▶ Multielement standard for ICP > RS-Standard for ICP

**RS**

Code	Size	Packaging	Notes
504301	100ml	Plastic bottle	100 ppm each. Matrix : Hydrochloric acid
504303	100ml	Plastic bottle	100 ppm each. Matrix : Nitric acid
504305	100ml	Plastic bottle	100 ppm each. Matrix : Nitric acid

## ▶ Multielement standard for ICP > RS-Calibrating standard for ICP

**RS**

Code	Size	Packaging	Notes
504306	100ml	Bottle	22 elements, 100 ppm each. Matrix : Nitric acid
504308	100ml	Bottle	28 elements, 100 ppm each. Matrix : Nitric acid
504310	100ml	Bottle	33 elements, 100 ppm each. Matrix : Hydrofluoric acid and nitric acid
504312	100ml	Bottle	9 elements, 100 ppm each. Matrix : Hydrochloric acid
504314	100ml	Bottle	40 elements, 100 ppm each. Matrix : Hydrofluoric acid and nitric acid
504307	500ml	Bottle	22 elements, 100 ppm each. Matrix : Nitric acid
504309	500ml	Bottle	28 elements, 100 ppm each. Matrix : Nitric acid
504311	500ml	Bottle	33 elements, 100 ppm each. Matrix : Hydrofluoric acid and nitric acid
504313	500ml	Bottle	9 elements, 100 ppm each. Matrix : Hydrochloric acid
504315	500ml	Bottle	40 elements, 100 ppm each. Matrix : Hydrofluoric acid and nitric acid

## Multielement standard for ICP and ICP-MS

### ▶ Multielement standard for ICP and ICP-MS > RS-Tuning solution for ICP-MS

**RS**

Code	Size	Packaging	Notes
504392	100ml	Plastic bottle	9 elements 10 mg/l each. Matrix : 2% Nitric acid
504393	100ml	Plastic bottle	13 elements 10 mg/l each. Matrix : 2% Nitric acid

### ▶ Multielement standard for ICP and ICP-MS > RS-Detection limit verification solution for ICP-MS

**RS**

Code	Size	Packaging	Notes
504397	250ml	Bottle	13 elements 0.001 mg/ml each. Matrix : Nitric acid

### ▶ Multielement standard for ICP and ICP-MS > RS-Quality control standard for ICP, ICP-MS

**RS**

Code	Size	Packaging	Notes
504352	100ml	Plastic bottle	28 elements, 1 ppm each. Matrix : Nitric acid

## Murexide

Synonyms : *Ammonium purpurate*  
*5,5'-Nitrilodibarbituric acid monoammonium salt*

C<sub>8</sub>H<sub>8</sub>N<sub>6</sub>O<sub>6</sub>  
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      Loss on drying .....<=10 %  
Identification.....Positive                      Residue on ignition .....<=0.5 %


Code	Size	Packaging	Notes
463608	5g	Glass bottle	

*Complexometric indicator.*

## Naphthalene

C<sub>10</sub>H<sub>8</sub>  
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**  
3.6/2; H351-4.1.A/1; H400-4.1.C/1; H410-3.1.O/4; H302  
P281-P308+P313-P330-P301+P312-P405-P501a

## Naphthalene &gt; RPE-For analysis


RPE

Description .....White flakes Melting point .....79 - 82 ° C  
Identification.....Positive Assay (GLC).....>= 98,5 %

Code	Size	Packaging	Notes
463655	250g	Plastic bottle	
463651	1kg	Plastic bottle	

## 1-Naphthol

C<sub>10</sub>H<sub>7</sub>OH  
Molecular Weight 144,17  
CAS : 90-15-3  
EEC-N : 201-969-4

 **Danger**  
3.3/1; H318-3.1.O/4; H302-3.1.D/4; H312-3.8/3; H335-3.2/2; H315  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

## 1-Naphthol &gt; RPE-For analysis

RPE

Description .....Grey-brown flakes Melting point .....94 - 98 ° C  
Identification.....Positive Assay (GLC).....>= 97,5 %

Code	Size	Packaging	Notes
463935	250g	Plastic bottle	

## 1-Naphthol &gt; RE-Pure

RE


Description .....White pinkish crystals Melting point .....94 - 98 ° C Assay (GLC).....>=98 %  
Identification.....Positive alpha-Naphthol .....<=1 %

Code	Size	Packaging	Notes
354751	250g	Plastic bottle	

## 2-Naphthol

C<sub>10</sub>H<sub>7</sub>OH  
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**  
4.1.A/1; H400-3.1.O/4; H302-3.1.I/4; H332  
P261-P271-P304+P340-P312-P330-P501a

## 2-Naphthol &gt; RPE-For analysis-C.I. 37500

RPE


Description .....Flakes pinky Melting point .....>= 120 ° C  
Identification.....Positive Assay (GLC).....>= 99,0 %

Code	Size	Packaging	Notes
463984	100g	Plastic bottle	
463986	500g	Plastic bottle	

## Naphthol yellow S

C<sub>10</sub>H<sub>4</sub>N<sub>2</sub>Na<sub>2</sub>O<sub>8</sub>S  
Molecular Weight 358,19  
CAS : 846-70-8  
EEC-N : 212-690-2

**Classification transport**  
ONU: 3143  
Transport Hazard class: 6.1  
Packing group III

 **Warning**  
3.1.O/4; H302-3.1.D/4; H312-3.1.I/4; H332  
P261-P271-P280-P304+P340-P312-P501a

## Naphthol yellow S &gt; RS-For microscopy-C.I. 10316

RS

Description .....Yellow-orange powder xx.na Identification.....Positive

Code	Size	Packaging	Notes
453562	25g	Glass bottle	

*Dye for histology.*

# NAP

## α-Naphtholbenzein

C<sub>27</sub>H<sub>18</sub>O<sub>2</sub>  
Molecular Weight 374,44  
CAS : 145-50-6  
EEC-N : 205-656-3



**Warning**  
3.2/2; H315-3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

### α-Naphtholbenzein > RPE-For analysis

RPE

Description.....Red brown powder Identification.....Positive Suitability for anhydrous titration .....Conform

Code	Size	Packaging	Notes
463891	5g	Glass bottle	

Acid-base indicator

## α-Naphtholbenzein solution 0.2% in acetic anhydride

C<sub>27</sub>H<sub>18</sub>O<sub>2</sub>  
CAS : 145-50-6

### Classification transport

ONU: 2789  
Transport Hazard class: 8  
Packing group II



**Danger**  
3.2/1A; H314-2.6/3; H226  
P210-P241-P304+P340-P305+P351+P338-P403+P235-P405-P501a

### α-Naphtholbenzein solution 0.2% in acetic anhydride > RS-For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611057601	100ml	Bottle	Ref Ph.Eur 1057601

## n-1-Naphtylethylenediamine dihydrochloride

C<sub>10</sub>H<sub>7</sub>NHCH<sub>2</sub>CH<sub>2</sub>NH<sub>2</sub>.2HCl  
Molecular Weight 259,18  
CAS : 1465-25-4  
EEC-N : 215-981-2



**Warning**  
3.2/2; H315-3.3/2; H319  
P280-P264-P305+P351+P338-P332+P313-P337+P313-P362

### n-1-Naphtylethylenediamine dihydrochloride > RPE-For analysis

RPE

Description.....White or beige powder, crystal or chunks Water .....<= 5 %  
Identification.....Positive Assay (TLC).....>= 98 %

Code	Size	Packaging	Notes
463831	10g	Glass bottle	

Search for sulfonamides in the blood and spectrophotometric determination of nitrites and nitrates for FIA middle

## NDF Solution



**Danger**  
3.7/1B; H360FD-A26  
P281-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	2,5l	Glass bottle	
526921	25l	Plastic tank	

Composition : Sodium lauryl sulfate: 30 g; EDTA: 18.61 g; Sodium borate: 6.81g; Disodium hydrogen phosphate 4.6 g; glycol monoethylether: 10 ml; Water: qsp 1 L according to NF V8-122

## NDF Plus solution

## NDF Plus solution &gt; RPE-For agroalimentary analysis

RPE

Code	Size	Packaging	Notes
526941	25l	Plastic tank	

## Neocuproine

C<sub>14</sub>H<sub>12</sub>N<sub>2</sub>.1/2H<sub>2</sub>O  
Molecular Weight 208,27  
CAS : 484-11-7  
EEC-N : 207-601-9



## Warning

3.2/2; H315-3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

## Neocuproine &gt; RPE-For analysis

RPE

Description .....White powder      Melting point .....158.5 - 161.5 °C      Copper sensitivity .....<=0.3 µg/ml  
Identification.....Positive      Residue on ignition .....<=0.1 %      Assay (non-aqueous medium) .....>=99 %

Code	Size	Packaging	Notes
444871	1g	Glass bottle	

## Neocuproine hydrochloride

C<sub>14</sub>H<sub>12</sub>N<sub>2</sub>.HCl.H<sub>2</sub>O  
Molecular Weight 244,73(AN)  
CAS : 7296-20-0  
EEC-N : 230-732-8



## Warning

3.2/2; H315-3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

## Neocuproine hydrochloride &gt; RPE-For analysis

RPE

Description .....Yellowish powder      Copper sensitivity .....>=0.3 µg/ml  
Identification.....Positive      Assay (non-aqueous medium).....>=99 % s s

Code	Size	Packaging	Notes
444731	1g	Glass bottle	

## Neodymium

## Neodymium &gt; RS-Standard for ICP-MS

RS

Code	Size	Packaging	Notes
505741	50ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505742	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505745	100ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid

## Neodymium &gt; RS-Standard for ICP

RS

Code	Size	Packaging	Notes
503761	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503765	100ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
503763	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503767	500ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

## Nessler's reagent single solution

### Classification transport

ONU: 2922  
Transport Hazard class: 8  
Packing group II



**Danger**

3.4.R/1; H334-3.9/2; H373-3.2/1A; H314-3.1.O/4; H302-3.1.I/4; H332-3.4.S/1; H317-4.1.C/2; H411  
P260-P304+P340-P305+P351+P338-P342+P311-P405-P501a

### Nessler's reagent single solution > RPE-For analysis

**RPE**

Description .....Yellow clear liquid Identification .....Positive Sensitivity to nitrogen .....Conform

Code	Size	Packaging	Notes
464231	500ml	Plastic bottle	
464232	1l	Plastic bottle	

For the determination of ammonia and ammonium salt.

## Nessler's reagent solution A

### Classification transport

ONU: 3287  
Transport Hazard class: 6.1  
Packing group II



**Danger**

3.1.O/3; H301-3.1.D/3; H311-3.1.I/3; H331-3.4.R/1; H334-3.9/2; H373-3.2/2; H315-3.3/2; H319-3.4.S/1;  
H317-4.1.C/2; H411  
P260-P304+P340-P305+P351+P338-P342+P311-P405-P501a

### 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	500ml	Glass bottle	

For the determination of nitrogen.

## Nessler's reagent solution B

### Classification transport

ONU: 1824  
Transport Hazard class: 8  
Packing group II



**Danger**

3.2/1A; H314  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

### 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	500ml	Plastic bottle	

For the determination of nitrogen.

## Neutral red

Synonyms : *Toluylene red*

*3-Amino-7-dimethylamino-2-methylphenazine hydrochloride*

C<sub>15</sub>H<sub>17</sub>ClN<sub>4</sub>  
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**

3.1.O/4; H302  
P264-P270-P330-P301+P312-P501a

### Neutral red > RPE-For analysis-C.I. 50040

**RPE**

Description .....Green-brown powder Loss on drying .....<= 5 % pH range .....6.8 - 8.0  
Identification .....Positive Colour change .....red - yellow

Code	Size	Packaging	Notes
476951	10g	Glass bottle	

Dye for microscopy (histology, hematology). Indicator acid - base (pH 6.8 ÷ 8.0).

## Nickel standard solution

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

RS

Code	Size	Packaging	Notes
615002001	100ml	Bottle	A 0,1 ppm solution : to dilute according to Ref Ph.Eur 5002001
615002002	100ml	Bottle	A 0,2 ppm solution : to dilute according to Ref Ph.Eur 5002002
615002009	100ml	Bottle	A 10 ppm solution : to dilute according to Ref Ph.Eur 5002000

### Nickel standard solution > RS-Standard for ICP-MS

RS

Code	Size	Packaging	Notes
505751	50ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505752	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505755	100ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid

### Nickel standard solution > RS-Standard for ICP

RS

Code	Size	Packaging	Notes
503771	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503775	100ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
503773	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503777	500ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

### Nickel standard solution > RS-Standard for AAS

RS

Description .....Green clear liquid Identification.....Positive Titration factor.....0.998 - 1.002

Code	Size	Packaging	Notes
E497575	100ml	Glass bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
E497571	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid

### 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	Normex	Plastic ampoule	conc. 1.000 ppm Matrix : Nitric acid

### Nickel standard solution > RS-Quality control standard solution for AAS (graphite furnace)

RS

Code	Size	Packaging	Notes
504363	50ml	Glass bottle	conc. 10 +/- 1 µg/L Matrix : 2% Nitric acid

## Nickel, powder

Ni  
Molecular Weight 58,69  
CAS : 7440-02-0  
EEC-N : 231-111-4



**Danger**

3.9/1; H372-3.6/2; H351-3.4.S/1; H317  
P260-P261-P280-P308+P313-P405-P501a

### Nickel, powder > RPE-For analysis

RPE

Description.....Powder metal Identification.....Positive Assay.....>= 98 %

Code	Size	Packaging	Notes
464384	100g	Glass bottle	
464387	1kg	Plastic bottle	

# NIC

## Nickel, sheet

Ni  
 Molecular Weight 58,69  
 CAS : 7440-02-0  
 EEC-N : 231-111-4

**Danger**  
 3.9/1; H372-3.6/2; H351-3.4.S/1; H317  
 P260-P261-P280-P308+P313-P405-P501a

### Nickel, sheet > RPE-For analysis

**RPE**

Description.....Foil Identification.....Positive Assay.....99.5 - 100.0 %

Code	Size	Packaging	Notes
464364	100g	Bag	Thickness ~1 mm

## Nickel, spheres

Ni  
 Molecular Weight 58,69  
 CAS : 7440-02-0  
 EEC-N : 231-111-4

**Danger**  
 3.9/1; H372-3.6/2; H351-3.4.S/1; H317  
 P260-P261-P280-P308+P313-P405-P501a

### Nickel, spheres > RPE-For analysis

**RPE**

Description.....Spheres Identification.....Positive Assay.....99.5 - 100.0 %

Code	Size	Packaging	Notes
464405	250g	Glass bottle	

## Nickel, wire

Ni  
 Molecular Weight 58,69  
 CAS : 7440-02-0  
 EEC-N : 231-111-4

**Danger**  
 3.9/1; H372-3.6/2; H351-3.4.S/1; H317  
 P260-P261-P280-P308+P313-P405-P501a

### Nickel, wire > RPE-For analysis

**RPE**

Description.....Metallic wire Identification.....Positive Assay.....>= 99.5 %

Code	Size	Packaging	Notes
464304	100g	Bag	

Size ~ 1mm.

## Nickel (II) acetate tetrahydrate

Ni(CH<sub>3</sub>COO)<sub>2</sub>·4H<sub>2</sub>O  
 Molecular Weight 248,86  
 CAS : 6018-89-9

**Warning**  
 3.6/2; H351-3.1.O/4; H302-3.1.I/4; H332-3.4.S/1; H317  
 P261-P271-P280-P304+P340-P405-P501a

### Nickel (II) acetate tetrahydrate > RPE-For analysis

**RPE**

Description.....Green powder Cu.....<= 10 ppm Zn .....<= 10 ppm  
 Identification.....Positive Fe.....<= 20 ppm Assay.....23 - 24 % (Ni)  
 Co.....<= 0.2 % Mn .....<= 20 ppm  
 Cr.....<= 5 ppm Pb .....<= 5 ppm


Code	Size	Packaging	Notes
464474	100g	Plastic bottle	
464476	500g	Plastic bottle	



## Nickel (II) ammonium sulfate hexahydrate

Ni(NH<sub>4</sub>)<sub>2</sub>(SO<sub>4</sub>)<sub>2</sub>·6H<sub>2</sub>O  
 Molecular Weight 395,00  
 CAS : 15699-18-0  
 EEC-N : 239-793-2

**Classification transport**  
 ONU: 3287  
 Transport Hazard class: 6.1  
 Packing group II

 **Danger**  
 3.4.R/1; H334-3.6/1A; H350i-3.7/1B; H360D-3.9/1; H372-3.5/2; H341-4.1.A/1; H400-4.1.C/1; H410-3.1.O/4; H302-3.1.I/4; H332-3.4.S/1; H317-A26  
 P260-P261-P304+P340-P342+P311-P405-P501a

### Nickel (II) ammonium sulfate hexahydrate > RPE-For analysis

RPE

Description .....Green-blue crystalline powder Subst. not ppt. (NH<sub>4</sub>)<sub>2</sub>S .....<= 0.2 % K .....<= 200 ppm  
 Identification.....Positive Ca .....<= 50 ppm Na .....<= 200 ppm  
 pH sol. 5% at 25° C .....4.3 - 4.7 Cd .....<= 20 ppm Pb .....<= 10 ppm  
 Chloride .....<= 10 ppm Co .....<= 10 ppm Zn .....<= 20 ppm  
 Water-insoluble matter .....<= 30 ppm Cu .....<= 10 ppm Assay (complexometric) .....99 - 100 %  
 Nitrate .....<= 100 ppm Fe .....<= 10 ppm


Code	Size	Packaging	Notes
464545	250g	Plastic bottle	
464547	1kg	Plastic bottle	

Low content in cobalt

## Nickel (II) carbonate basic

NiCO<sub>3</sub>·2Ni(OH)<sub>2</sub>·nH<sub>2</sub>O  
 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**  
 3.6/2; H351-4.1.A/1; H400-4.1.C/1; H410-3.1.O/4; H302-3.4.S/1; H317  
 P261-P280-P308+P313-P330-P405-P501a

### Nickel (II) carbonate basic > RPE-For analysis

RPE


Description .....Green powder Co .....<= 0.1 % Zn .....<= 50 ppm  
 Identification.....Positive Cu .....<= 50 ppm Assay (complexometric) .....>= 45 % (Ni)  
 Chloride .....<= 0.1 % Fe .....<= 100 ppm  
 Diluted HCl-ins. matter .....<= 500 ppm Pb .....<= 50 ppm

Code	Size	Packaging	Notes
464604	100g	Plastic bottle	

## Nickel (II) chloride hexahydrate

NiCl<sub>2</sub>·6H<sub>2</sub>O  
 Molecular Weight 237,70  
 CAS : 7791-20-0  
 EEC-N : 231-743-0

**Classification transport**  
 ONU: 3288  
 Transport Hazard class: 6.1  
 Packing group III

 **Danger**  
 3.1.O/3; H301-3.4.R/1; H334-3.6/2; H351-3.4.S/1; H317  
 P261-P280-P285-P342+P311-P405-P501a

### Nickel (II) chloride hexahydrate > RPE-For analysis

RPE

Description .....Green crystals Mg .....<= 10 ppm Cd .....<= 10 ppm Fe .....<= 20 ppm Zn .....<= 10 ppm  
 Identification.....Positive Sulphate .....<= 50 ppm Co .....<= 20 ppm Na .....<= 50 ppm Assay (argentimetric) .....>= 98 %  
 pH sol. 5% at 20°C .....4 - 6 Ca .....<= 50 ppm Cu .....<= 10 ppm Pb .....<= 10 ppm


Code	Size	Packaging	Notes
464644	100g	Glass bottle	
464645	250g	Plastic bottle	
464647	1kg	Plastic bottle	

Low content in cobalt

## Nickel (II) nitrate hexahydrate

Ni(NO<sub>3</sub>)<sub>2</sub>·6H<sub>2</sub>O  
 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**  
 2.14/2; H272-3.4.R/1; H334-3.6/2; H351-3.1.O/4; H302-3.4.S/1; H317  
 P210-P221-P261-P342+P311-P405-P501a

### Nickel (II) nitrate hexahydrate > RPE-For analysis

RPE

Description .....Green crystals As .....<= 5 ppm Cu .....<= 10 ppm S .....<= 10 ppm  
 Identification.....Positive Ca .....<= 10 ppm Fe .....<= 10 ppm Zn .....<= 10 ppm  
 Water-insoluble matter .....<= 100 ppm Cd .....<= 1 ppm Mg .....<= 10 ppm Assay (complexometric) .....>= 98.5 %  
 Chloride .....<= 50 ppm Co .....<= 0.5 % Mn .....<= 20 ppm  
 Al .....<= 10 ppm Cr .....<= 1 ppm Pb .....<= 1 ppm

Code	Size	Packaging	Notes
464685	250g	Plastic bottle	
464686	1kg	Plastic bottle	

# NIC

## Nickel (II) nitrate 10g/l

### Classification transport

ONU: 3098  
Transport Hazard class: 8  
Packing group III



**Danger**

2.13/2; H272-3.1.I/3; H331-3.4.R/1; H334-3.6/1A; H350i-3.7/1B; H360D-3.9/1; H372-3.5/2; H341-3.2/1A; H314-3.3/1; H318-3.4.S/1; H317-4.1.C/2; H411-A26  
P210-P221-P304+P340-P305+P351+P338-P342+P311-P405-P501a

### Nickel (II) nitrate 10g/l > RS-Matrix modifiers for AAS-GTA

RS

Code	Size	Packaging	Notes
503197	50ml	Bottle	Matrix : 1% Nitric acid

## Nickel (II) sulfate hexahydrate

NiSO<sub>4</sub>·6H<sub>2</sub>O  
Molecular Weight 262,86  
CAS : 10101-97-0

### Classification transport

ONU: 3077  
Transport Hazard class: 9  
Packing group III



**Danger**

3.1.O/3; H301-3.4.R/1; H334-3.6/2; H351-4.1.A/1; H400-4.1.C/1; H410-3.4.S/1; H317  
P261-P280-P285-P342+P311-P405-P501a

### Nickel (II) sulfate hexahydrate > RPE-For analysis

RPE

Description	Green crystals	Water-insoluble matter	<=100 ppm	Cu	<=10 ppm	Pb	<=10 ppm
Identification	Positive	Subst. not ppt. (NH <sub>4</sub> ) <sub>2</sub> S	<=0.1 %	Fe	<=80 ppm	Zn	<=20 ppm
pH sol. 5% at 25° C	2.5 - 6.5	Ca	<=400 ppm	K	<=500 ppm	Assay (complexometric)	>=99 %
Total nitrogen	<=20 ppm	Cd	<=10 ppm	Mn	<=10 ppm		
Chloride	<=10 ppm	Co	<=5 ppm	Na	<=100 ppm		

Code	Size	Packaging	Notes
464775	250g	Plastic bottle	
464777	1kg	Plastic bottle	
464772	25kg	Fibre drum	

Low content in cobalt

### Nickel (II) sulfate hexahydrate > RE-Pure

RE

Description	Green crystals	Water-insoluble matter	<=0.1 %	Assay (complexometric)	98 - 100 %
Identification	Positive	Fe	<=100 ppm		

Code	Size	Packaging	Notes
355757	1kg	Plastic bottle	
355752	25kg	Drum	

## Nicotinamide

C<sub>6</sub>H<sub>6</sub>ON<sub>2</sub>  
Molecular Weight 122,13  
CAS : 98-92-0  
EEC-N : 202-713-4



**Warning**

3.2/2; H315-3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

### Nicotinamide >

ERBAPharm-According to pharmacopoeia: Ph.Eur.-USP-FU-Ph.Franc.-BP-DAB

ERBAPharm


Description	White crystalline powder	Organic volatile impurities	Conform USP-NF	Heavy metals (Pb)	<=30 ppm
Identification	Positive	Melting point	128 - 131 °C	Assay (non-aqueous medium)	99.0 - 101.0 % s.s.
Appearance of solution	Conform Ph.Eur.	pH solution 5%	6.0 - 7.5	Assay (HPLC)	98.5 - 101.5 % s.s.
Related substances	Conform Ph.Eur.	Loss on drying	<=0.5 %		
Ready carbonizable substances	Conform USP-NF	Sulphated ash	<=0.1 %		

Code	Size	Packaging	Notes
392304	100g	Plastic bottle	
392307	1kg	Plastic bottle	
392302	25kg	Drum	

**Nicotinic acid**

Synonyms : 3-Picolinic acid  
Vitamin B3

N:CHC(COOH):CHCH:CH  
Molecular Weight 123,11  
CAS : 59-67-6  
EEC-N : 200-441-0

 **Warning**  
3.3/2; H319  
P280-P264-P305+P351+P338-P337+P313

**Nicotinic acid > RPE-For analysis**


RPE

Description .....White crystalline powder Chloride .....<=0.02 % Residue on ignition .....<=0.1 %  
Identification.....Positive Heavy metals (Pb).....<=20 ppm Assay (non-aqueous medium) .....99.5 - 100.5 %  
Melting point .....235.7 - 237.3 °C Loss on drying .....<=1.0 % Sulphate .....<= 0.02 %

Code	Size	Packaging	Notes
407914	100g	Plastic bottle	

**Nigrosine**

CAS : 8005-03-6

 **Warning**  
3.1.0/4; H302-3.1.D/4; H312-3.1.I/4; H332  
P261-P271-P280-P304+P340-P312-P501a

**Nigrosine > RS-For microscopy-C.I. 50420**

RS

Description.....black granules Identification.....Positive


Code	Size	Packaging	Notes
464853	50g	Glass bottle	

**Ninhydrin**

Synonyms : 2,2-Dihydroxy-1,3-indanedione  
Trioxohydrindene monohydrate

C<sub>6</sub>H<sub>4</sub>COCOCO.H<sub>2</sub>O  
Molecular Weight 178,15  
CAS : 485-47-2  
EEC-N : 207-618-1

**Classification transport**  
ONU: 2810  
Transport Hazard class: 6.1  
Packing group III

 **Warning**  
3.1.0/4; H302-3.2/2; H315-3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

**Ninhydrin > RPE-For analysis-ACS**

RPE

Description .....Yellow powder Ident.and melting point .....Conform Solubility.....Conform  
Identification.....Positive Aminoacids sensitivity .....Conform

Code	Size	Packaging	Notes
464928	5g	Glass bottle	
464922	25g	Glass bottle	

**Ninhydrin solution**

**Ninhydrin solution > RS-For analysis according to Ph. Eur. Chap. 4.1.1**

RS

Code	Size	Packaging	Notes
611058304	100ml	Bottle	Ninhydrin solution R1 Ref Ph.Eur 1058304
611058305	100ml	Bottle	Ninhydrin solution R2 Ref Ph.Eur 1058305

**Ninhydrin and stannous chloride reagent**

**Ninhydrin and stannous chloride reagent >  
RS-For analysis according to Ph. Eur. Chap. 4.1.1**

RS

Code	Size	Packaging	Notes
611058301	100ml	Bottle	Ref Ph.Eur 1058301

# NIO

## Niobium standard solution

### Niobium standard solution > RS-Standard for ICP-MS

RS

Code	Size	Packaging	Notes
505736	50ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrofluoric acid and nitric acid
505737	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrofluoric acid and nitric acid
505738	100ml	Plastic bottle	conc. 100 ppm Matrix : Hydrofluoric acid and nitric acid

### Niobium standard solution > RS-Standard for ICP

RS

Code	Size	Packaging	Notes
503751	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrofluoric acid and nitric acid
503755	100ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrofluoric acid and nitric acid
503753	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrofluoric acid and nitric acid
503757	500ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrofluoric acid and nitric acid

## Nital solution 4%

### Nital solution 4% > RS-Macrography

RS

Code	Size	Packaging	Notes
505021	1L	Plastic bottle	

Composition : 4ml HNO<sub>3</sub> 65% ; 100ml Ethanol

## Nitrate standard solution

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

RS

Code	Size	Packaging	Notes
615002101	100ml	Bottle	A 10 ppm solution : to dilute according to Ref Ph.Eur 5002101
615002102	100ml	Bottle	A 2 ppm solution : to dilute according to Ref Ph.Eur 5002102
615002109	100ml	Bottle	A 100 ppm solution : to dilute according to Ref Ph.Eur 5002100

### Nitrate standard solution > RS-Standard for ionic chromatography

RS

Code	Size	Packaging	Notes
503330	50ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503331	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503332	250ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503333	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Water

## Nitric acid fuming 90%

HNO<sub>3</sub>  
Molecular Weight 63,013  
CAS : 7697-37-2  
EEC-N : 231-714-2

**Classification transport**  
ONU: 2031  
Transport Hazard class: 8  
Packing group I



**Danger**

3.2/1A; H314-2.13/3; H272  
P210-P221-P304+P340-P305+P351+P338-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	500ml	Glass bottle	

# Nitric acid 69.5%

HNO<sub>3</sub>  
Molecular Weight 63,013  
CAS : 7697-37-2

**Classification transport**  
ONU: 2031  
Transport Hazard class: 8  
Packing group I

 **Danger**  
2.13/2; H272-3.2/1A; H314  
P210-P221-P304+P340-P305+P351+P338-P403+P235-P501a

## Nitric acid 69.5% > RS-VLSI For electronic use

RS

Code	Size	Packaging	Notes
527670	2,5l	Glass bottle	

## 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	1l	Glass bottle	
408098	2,5l	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	Si	.....<=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
408152	2,5l	Glass bottle	

## Nitric acid 69.5% > RPE-For analysis-ISO-ACS-Reag.Ph.Eur.-Reag.USP

RPE

Description	.....Clear liquid	Sulphate	.....<=0.5 ppm	Co	.....<=0.01 ppm	Na	.....<=0.5 ppm
Colour	.....<=10 APHA	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	.....1.408 - 1.416	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
Sulphated ash	.....<=4 ppm	Ca	.....<=5 ppm	Mn	.....<=0.01 ppm	Zn	.....<=0.01 ppm
Silicate	.....<=1 ppm	Cd	.....<=0.005 ppm	Mo	.....<=0.05 ppm	Assay (acidimetric)	.....69.1 - 69.9 %

Code	Size	Packaging	Notes
408071	1l	Glass bottle	
408076	1l	Glass bottle PVC coated	
524530	1l	Plastic bottle	
408072	2,5l	Glass bottle	
524531	2,5l	Plastic bottle	
408075	34kg	Plastic tank	

## Nitric acid 67-70%

HNO<sub>3</sub>  
Molecular Weight 63,013  
CAS : 7697-37-2

### Classification transport

ONU: 2031  
Transport Hazard class: 8  
Packing group II



### Danger

2.13/2; H272-3.2/1A; H314  
P210-P221-P304+P340-P305+P351+P338-P403+P235-P501a

### Nitric acid 67-70% > RS-Superpure-For trace analysis

RS

Description.....Clear liquid	Li.....<= 0.1 ppb	Ce.....<= 0.1 ppb	Pt.....<= 0.5 ppb
Identification.....Positive	Mg.....<= 1 ppb	Colour.....<= 10 APHA	Pr.....<= 0.1 ppb
Chloride.....<= 0.2 ppm	Mn.....<= 0.1 ppb	Cs.....<= 0.1 ppb	Re.....<= 0.1 ppb
Total phosphorus.....<= 0.01 ppm	Hg.....<= 0.1 ppb	Dy.....<= 0.1 ppb	Rh.....<= 0.5 ppb
Total sulphur.....<= 0.3 ppm	Mo.....<= 0.1 ppb	Er.....<= 0.1 ppb	Rb.....<= 0.1 ppb
Co.....<= 0.5 ppb	Ni.....<= 0.5 ppb	Eu.....<= 0.1 ppb	Ru.....<= 0.5 ppb
Sb.....<= 0.5 ppb	Se.....<= 1 ppb	Gd.....<= 0.1 ppb	Sm.....<= 0.1 ppb
Fe.....<= 1 ppb	Ag.....<= 0.1 ppb	Ga.....<= 0.1 ppb	Sc.....<= 0.1 ppb
Ba.....<= 0.1 ppb	Na.....<= 1 ppb	Ge.....<= 0.1 ppb	Te.....<= 0.1 ppb
Be.....<= 0.1 ppb	Sr.....<= 0.1 ppb	Au.....<= 0.1 ppb	Tb.....<= 0.1 ppb
Bi.....<= 0.1 ppb	Th.....<= 0.1 ppb	Hf.....<= 0.1 ppb	Tl.....<= 0.1 ppb
B.....<= 1 ppb	Sn.....<= 0.5 ppb	Ho.....<= 0.1 ppb	Tm.....<= 0.1 ppb
Cd.....<= 0.5 ppb	Ti.....<= 0.5 ppb	In.....<= 0.1 ppb	W.....<= 0.1 ppb
Ca.....<= 1 ppb	U.....<= 0.1 ppb	La.....<= 0.1 ppb	Yb.....<= 0.1 ppb
Cr.....<= 1 ppb	V.....<= 0.5 ppb	Lu.....<= 0.1 ppb	Y.....<= 0.1 ppb
K.....<= 1 ppb	Zn.....<= 0.5 ppb	Nd.....<= 0.1 ppb	
Cu.....<= 0.5 ppb	Zr.....<= 0.1 ppb	Nb.....<= 0.1 ppb	
Pb.....<= 0.1 ppb	Assay (acidimetric).....67 - 70 %	Pd.....<= 0.5 ppb	

Code	Size	Packaging	Notes
408115	500ml	Plastic bottle	
408116	1l	Plastic bottle	
408117	2,5l	Plastic bottle	

## Nitric acid 67-69%

HNO<sub>3</sub>  
Molecular Weight 63,013  
CAS : 7697-37-2

### Classification transport

ONU: 2031  
Transport Hazard class: 8  
Packing group I



### Danger

2.13/2; H272-3.2/1A; H314  
P210-P221-P304+P340-P305+P351+P338-P403+P235-P501a

### Nitric acid 67-69% > RS-Ultrapur - For trace analysis

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	500ml	Plastic bottle	

## Nitric acid 67.5% (42Be)

HNO<sub>3</sub>  
Molecular Weight 63,013  
CAS : 7697-37-2

**Classification transport**  
ONU: 2031  
Transport Hazard class: 8  
Packing group I

**Danger**  
2.13/2; H272-3.2/1A; H314  
P210-P221-P304+P340-P305+P351+P338-P403+P235-P501a

### 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	5l	Plastic 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	2,5l	Glass bottle	
305501	40kg	Drum	
305505	70kg	Drum	

## Nitric acid 65%

HNO<sub>3</sub>  
Molecular Weight 63,01  
CAS : 7697-37-2

**Classification transport**  
ONU: 2031  
Transport Hazard class: 8  
Packing group I

**Danger**  
2.13/2; H272-3.2/1A; H314  
P210-P221-P304+P340-P305+P351+P338-P403+P235-P501a

### 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	1l	Glass bottle	
408102	2,5l	Glass bottle	
408103	260kg	Polythene-metal drum	

### Nitric acid 65% > RS-For environmental 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	1l	Glass bottle	
407952	2,5l	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	1l	Glass bottle PVC coated	
408022	1l	Glass bottle	
524535	1l	Plastic bottle	
408025	2,5l	Glass bottle	
524536	2,5l	Plastic bottle	
408027	34kg	Drum	

## Nitric acid 65% > RE-Pure

RE

Description.....Clear colourless liquid	Heavy metals (Pb).....<=10 ppm	Fe.....<=50 ppm
Identification.....Positive	Residue on ignition.....<=500 ppm	Assay (acidimetric).....64 - 66 %
Density at 20° C.....1.390 - 1.410	Sulphate.....<=100 ppm	
Chloride.....<=10 ppm	As.....<=1 ppm	

Code	Size	Packaging	Notes
305201	1l	Glass bottle	
305207	2,5l	Glass bottle	
305205	25kg	Drum	
305202	34kg	Drum	

## Nitric acid 18%

HNO<sub>3</sub>  
Molecular Weight 63,01  
CAS : 7697-37-2

**Classification transport**  
ONU: 2031



**Danger**

2.13/2; H272-3.2/1B; H314  
P210-P221-P304+P340-P305+P351+P338-P405-P501a

## Nitric acid 18% > RS-RSE For electronic use

RS

Assay.....17 - 19 %

Code	Size	Packaging	Notes
408191	1l	Plastic bottle	

## Nitric acid 8 mol/l (8N)

**Classification transport**  
ONU: 2031  
Transport Hazard class: 8  
Packing group II



**Danger**

3.1.1/1; H330-3.2/1A; H314  
P260-P271-P304+P340-P305+P351+P338-P405-P501a

## Nitric acid 8 mol/l (8N) > RPE-For analysis

RPE

Assay (potentiometry).....7.984 - 8.016 N

Code	Size	Packaging	Notes
PS0311/20	2,5l	Plastic bottle	

## Nitric acid 7 mol/l (7N)

**Classification transport**  
ONU: 2031  
Transport Hazard class: 8  
Packing group II



**Danger**

3.1.1/1; H330-3.2/1A; H314  
P260-P271-P304+P340-P305+P351+P338-P405-P501a

## Nitric acid 7 mol/l (7N) > RS-For analysis

RS

Assay (potentiometry).....6.993 - 7.007 N Chloride (Cl-).....<= 0.3 mg/Kg

Code	Size	Packaging	Notes
PS0724/42	20l	Plastic tank	



## Nitric acid 2 mol/l (2N)

## Classification transport

ONU: 2031



## Danger

3.2/1B; H314  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

## ▶ Nitric acid 2 mol/l (2N) &gt; RPE-For analysis

RPE

Description .....Clear colourless liquid Assay (potentiometry).....1.998 - 2.002 N

Code	Size	Packaging	Notes
408185000	5l	Plastic tank	

Traceable to NIST

## Nitric acid 1 mol/l (1N)

## Classification transport

ONU: 2031



## Danger

3.2/1A; H314  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

## ▶ Nitric acid 1 mol/l (1N) &gt; RPE-For analysis

RPE

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

Code	Size	Packaging	Notes
408176000	500ml	Plastic bottle	

Content is guaranteed for standardized volumes at 20°C. Traceable to NIST

## Nitric acid 0.1 mol/l (0.1N)

## ▶ Nitric acid 0.1 mol/l (0.1N) &gt; RPE-For analysis

RPE

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

Code	Size	Packaging	Notes
408206000	500ml	Plastic bottle	

6,301 g of HNO<sub>3</sub>. Volumetric solution ready-to-use : 0, 1 N. Traceable to NIST

## ▶ Nitric acid 0.1 mol/l (0.1N) &gt; RPE-NORMEX -For analysis

RPE

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

Code	Size	Packaging	Notes
408231	Normex	Plastic ampoule	

6,301 g HNO<sub>3</sub>. Volumetric concentrated solution to prepare 1 L of solution 0.1 N

## Nitric acid, dilute

## Classification transport

ONU: 2031

Transport Hazard class: 8

Packing group II



## Danger

3.1.1/2; H330-3.2/1A; H314  
P260-P271-P304+P340-P305+P351+P338-P405-P501a

## ▶ Nitric acid, dilute &gt; RS-For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611058402	100ml	Bottle	Ref Ph.Eur 1058402
611058409	250ml	Bottle	Ref Ph.Eur 1058402

# NIT

## Nitrilotriacetic acid

Synonyms : *N,N*-Bis(carboxymethyl)glycine  
*Tris*(carboxymethyl)amine

$N(CH_2COOH)_3$   
Molecular Weight 191,15  
CAS : 139-13-9  
EEC-N : 205-355-7



**Warning**

3.1.O/4; H302  
P264-P270-P330-P301+P312-P501a

### Nitrilotriacetic acid > RPE-For analysis

**RPE**

Description .....White powder Identification (I.R.).....Conform Assay (complexometric).....>= 98.5 %

Code	Size	Packaging	Notes
408242	100g	Glass bottle	

## Nitrite standard solution

### Nitrite standard solution > RS-Standard for ionic chromatography

**RS**

Code	Size	Packaging	Notes
503320	50ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503321	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503322	250ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503323	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Water

## m-Nitrobenzaldehyde

$NO_2C_6H_4CHO$   
Molecular Weight 151,12  
CAS : 99-61-6  
EEC-N : 202-772-6



**Warning**

3.2/2; H315-3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

### 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	25g	Glass bottle	

## Nitrobenzene

$C_6H_5NO_2$   
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**

3.1.O/3; H301-3.1.D/3; H311-3.1.I/3; H331-3.9/1; H372-3.6/2; H351-3.7/2; H361f-4.1.C/2; H411  
P260-P261-P271-P304+P340-P405-P501a

### Nitrobenzene > RPE-For analysis-ACS

**RPE**

Description.....Yellow clear liquid Residue on evaporation.....<= 50 ppm Acids solub. in water .....<= 0.0005 meq/g  
Identification.....Positive Chloride .....<= 5 ppm Assay (GLC).....>= 99 %

Code	Size	Packaging	Notes
465222	1l	Glass bottle	

## m-Nitrobenzoic acid

$NO_2C_6H_4COOH$   
Molecular Weight 167,12  
CAS : 121-92-6  
EEC-N : 204-508-5



**Warning**

3.1.O/4; H302  
P264-P270-P330-P301+P312-P501a

### m-Nitrobenzoic acid > RPE-For analysis

**RPE**

Description.....Yellowish crystalline powder Total chlorine.....<=20 ppm Total sulphur .....<=20 ppm  
Identification.....Positive Methyl alcohol insolub .....<=100 ppm Fe.....<=10 ppm  
Melting point .....141 - 142 ° C Heavy metals (Pb).....<=10 ppm Assay (acidimetric) .....>=99 %  
Loss on drying .....<=0.5 % Residue on ignition .....<=200 ppm

Code	Size	Packaging	Notes
408414	100g	Glass bottle	

## p-Nitrobenzoyl chloride

NO<sub>2</sub>C<sub>6</sub>H<sub>4</sub>COCl  
Molecular Weight 185,57  
CAS : 122-04-3  
EEC-N : 204-517-4

### Classification transport

ONU: 3261  
Transport Hazard class: 8  
Packing group II



**Danger**  
3.2/1B; H314  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

### p-Nitrobenzoyl chloride > RE-Pure

RE

Description.....yellow flakes      Melting point .....>= 71.5 ° C  
Identification.....Positive      Assay (argentimetric).....97.5 - 102.5 %

Code	Size	Packaging	Notes
465453	50g	Glass bottle	

## Nitroethane

CH<sub>3</sub>CH<sub>2</sub>NO<sub>2</sub>  
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**  
2.6/3; H226-3.1.O/4; H302-3.1.I/4; H332  
P210-P241-P243-P304+P340-P403+P235-P501a

### Nitroethane > RPE-For analysis

RPE

Description.....Clear colourless liquid      Refractive index at 20°C.....1.3887 - 1.3947      Residue on evaporation.....<= 50 ppm  
Identification.....Positive      Boiling point.....114.5 - 115.5 ° C      Assay (GLC).....>= 99 %  
Density at 20° C.....1.046 - 1.050      Water (K.F.).....<= 0.3 %

Code	Size	Packaging	Notes
465502	1l	Glass bottle	

## p-Nitrophenol

NO<sub>2</sub>C<sub>6</sub>H<sub>4</sub>OH  
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**  
3.9/2; H373-3.1.O/4; H302-3.1.D/4; H312-3.1.I/4; H332  
P260-P261-P271-P280-P304+P340-P501a

### p-Nitrophenol > RPE-For analysis

RPE

Description.....Yellow crystals      Sensitivity(pH 5.0-7.6).....Conform      Residue on ignition.....<=0.1 %  
Identification.....Positive      Melting point.....109 - 114 ° C      Colour change.....Colourless-yellow

Code	Size	Packaging	Notes
465744	100g	Glass bottle	

*Acid-base indicator.*

## p-Nitrophenol solution 0,1% in water

### 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	500ml	Glass bottle	

*Michaelis indicator series.*

## 4-Nitrophenylphosphoric acid disodium salt

$C_6H_4NO_6Na_2 \cdot 6H_2O$   
 Molecular Weight 371,15  
 CAS : 4264-83-9  
 EEC-N : 224-246-5

## 4-Nitrophenylphosphoric acid disodium salt &gt; RS-For microscopy

RS

Description.....Yellowish crystalline powder E 1cm % water at 310 nm.....345 - 365 Water .....27 - 30 %  
 Identification.....Positive 4-Nitrophenol.....<=0.1 % Assay(enzym)alkal phosp .....98 - 100 % s.s.  
 Suitable for phosphatase determination .....Conform Inorganic phosphate.....<=0.2 %

Code	Size	Packaging	Notes
408451	5g	Glass bottle	

For the determination of phosphatases.

## p-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

2.6/3; H226-4.1.A/1; H400-4.1.C/1; H410-3.2/2; H315-3.4.S/1; H317  
 P210-P241-P243-P332+P313-P403+P235-P501a

## p-Nitroso-n,n-dimethylaniline &gt; RPE-For analysis

RPE

Description.....Green powder Melting point .....83.5 - 86.5 ° C Assay (non-aqueous medium) .....>= 98.5 %  
 Identification.....Positive Residue on ignition .....<= 0.1 %

Code	Size	Packaging	Notes
466182	25g	Glass bottle	

## 1-Nitroso-2-naphthol-3,6-disulphonic acid disodium salt

$NOC_{10}H_4(OH)(SO_3Na)_2$   
 Molecular Weight 377,26  
 CAS : 525-05-3  
 EEC-N : 208-369-1



## Warning

3.1.O/4; H302-3.1.D/4; H312-3.1.I/4; H332  
 P261-P271-P280-P304+P340-P312-P501a

## 1-Nitroso-2-naphthol-3,6-disulphonic acid disodium salt &gt; RPE-For analysis

RPE

Description.....Yellow to orange crystalline powder Loss on drying.....<=5% %  
 Identification.....Positive Cobalt sensitivity.....0.1 µg/ml

Code	Size	Packaging	Notes
408582	25g	Glass bottle	

For the determination of Co, Fe, K.

## Nitroso nitric acid

## Classification transport

ONU: 2922  
 Transport Hazard class: 8  
 Packing group I



## Danger

2.13/2; H272-3.1.I/1; H330-3.2/1A; H314-3.8/3; H335-H336  
 P210-P221-P304+P340-P305+P351+P338-P405-P501a

## Nitroso nitric acid &gt; RPE-For analysis

RPE

Description.....Yellow clear liquid Chloride .....<=5 ppm Sulphate.....<=5 ppm  
 Identification.....Positive Heavy metals (Pb).....<=5 ppm Fe.....<=5 ppm  
 Density at 20° C.....1.390 - 1.410 Residue on ignition .....<=100 ppm

Code	Size	Packaging	Notes
408531	1l	Glass bottle	

## NMR solvents

Acetic acid-d4 .....	8	n,n-Dimethylformamide-d7 .....	173	Orthophosphoric acid-d3 85% in D2O .....	366
Acetone-d6 .....	11	Dimethylsulphoxide-d6 .....	175	Pyridine-d5 .....	436
Acetonitrile-d3 .....	15	Dimethylsulphoxide-d6 + 0,03% TMS .....	175	Sodium hydroxide-d 1 30% .....	488
Benzene-d6 .....	66	1,4-Dioxane-d8 .....	178	Sodium hydroxide-d 1 mol/l .....	488
Chloroform-d .....	124	Ethanol-d6 anhydrous .....	192	Tetrachloroethane-d2 .....	541
Chloroform-d + 0,03% TMS .....	125	Formic acid-d .....	214	Tetrahydrofuran-d8 .....	543
Cyclohexane-d12 .....	148	Hexane-d14 .....	234	Tetramethylsilane .....	545
Deuterium oxide-d .....	152	Hydrochloric acid-d 1 mol/l .....	250	Toluene-d8 .....	558
Deuterium oxide-d + 0.01% DMSO .....	152	Hydrochloric acid-d 20% .....	250	Trifluoroacetic acid-d .....	564
Deuterium oxide-d + 0.03% TSP d4 .....	152	Methanol-d1 .....	325	Trifluoroethanol-d2 .....	564
Deuterium oxide-d + 0.5% TSP d4 .....	152	Methanol-d3 .....	325	3-Trimethylsilylpropionic acid sodium salt .....	566
1,2-Dichlorobenzene-d4 .....	157	Methanol-d4 .....	324		
Dichloromethane-d2 .....	162	Methanol-d4 + 0.03% TMS .....	324		

## Nonylphenol ethoxylated 10 ETO

CAS : 9016-45-9  
EEC-N : 500-024-6



**Warning**

3.1.O/4; H302-3.2/2; H315-3.3/2; H319  
P280-P305+P351+P338-P330-P332+P313-P337+P313-P501a

### 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	10g	Glass bottle	

## NORMEX, concentrated buffered colored solution

Buffer pH 4 .....83 Buffer pH 7 .....85 Buffer pH 10.06 .....88

## NORMEX, concentrated buffered solution

Buffer pH 1 .....	81	Buffer pH 6.8 .....	85	Buffer pH 10 .....	88
Buffer pH 2 .....	82	Buffer pH 7 .....	85	Buffer pH 11 .....	89
Buffer pH 3 .....	82	Buffer pH 7.2 .....	86	Buffer pH 12 .....	89
Buffer pH 4 .....	83	Buffer pH 7.4 .....	86	Buffer pH 13 .....	89
Buffer pH 5 .....	84	Buffer pH 8 .....	87		
Buffer pH 6 .....	85	Buffer pH 9 .....	87		

## NORMEX, concentrated solutions for AAS

Aluminum standard solution .....	21	Copper standard solution .....	136	Lead standard solution .....	288
Antimony standard solution .....	52	Tin standard solution .....	550	Potassium standard solution .....	396
Silver standard solution .....	454	Iron standard solution .....	268	Selenium standard solution .....	448
Barium standard solution .....	59	Lithium standard solution .....	294	Silicon standard solution .....	453
Bismuth standard solution .....	71	Magnesium standard solution .....	299	Sodium standard solution .....	462
Boron standard solution .....	75	Manganese standard solution .....	309	Strontium standard solution .....	519
Cadmium standard solution .....	96	Mercury standard solution .....	314	Vanadium standard solution .....	572
Calcium standard solution .....	98	Molybdenum standard solution .....	339	Zinc standard solution .....	581
Chromium standard solution .....	128	Nickel standard solution .....	347		
Cobalt standard solution .....	133	Gold standard solution .....	222		

## NORMEX, concentrated volumetric solutions

Acetic acid 0.1 mol/l (0.1N) .....	8	Sulfuric acid 0.25 mol/l (0.5N) .....	533	Potassium iodate 0.00167 mol/l (0.01N) .....	416
Hydrochloric acid 0.01 mol/l (0.01N) .....	249	Sulfuric acid 0.5 mol/l (1N) .....	532	Potassium iodate 0.0167 mol/l (0.001N) .....	415
Hydrochloric acid 0.1 mol/l (0.1N) .....	248	Ammonium thiocyanate 0.01 mol/l (0.01N) .....	49	Potassium permanganate 0.002 mol/l (0.01N) .....	421
Hydrochloric acid 0.5 mol/l (0.5N) .....	247	Ammonium thiocyanate 0.1 mol/l (0.1N) .....	48	Potassium permanganate 0.02 mol/l (0.1N) .....	420
Hydrochloric acid 1 mol/l (1N) .....	246	Silver nitrate 0.01 mol/l (N/100) .....	459	Sodium arsenite 0.05 mol/l (0.1N) .....	465
Ethylenediaminetetraacetic acid disodium salt 0.01 mol/l (0.02N) .....	200	Silver nitrate 0.1 mol/l (0.1N) .....	458	Sodium carbonate 0.05 mol/l (0.1N) .....	470
Ethylenediaminetetraacetic acid disodium salt 0.1 mol/l (0.2N) .....	199	Iodine 0.005 mol/l (0.01N) .....	266	Sodium chloride 0.1 mol/l (0.1N) .....	471
Nitric acid 0.1 mol/l (0.1N) .....	357	Iodine 0.05 mol/l (0.1N) .....	265	Sodium hydroxide 0.01 mol/l (N/100) .....	487
Oxalic acid 0.005 mol/l (0.01N) .....	368	Mercury (II) perchlorate 0.01 mol/l (0.01N) .....	318	Sodium hydroxide 0.1 mol/l (N/10) .....	487
Oxalic acid 0.05 mol/l (0.1N) .....	368	Potassium bromate 0.0167 mol/l (0.1002N) .....	399	Sodium hydroxide 0.5 mol/l (N/2) .....	485
Sulfuric acid 0.005 mol/l (0.01N) .....	535	Potassium dichromate 0.0167 mol/l (0.1 N) .....	405	Sodium hydroxide 1 mol/l (1N) .....	484
Sulfuric acid 0.05 mol/l (0.1N) .....	534	Potassium hydroxide 0.1 mol/l (0.1N) .....	414	Sodium thiosulfate 0.01 mol/l (0.01N) .....	507
		Potassium hydroxide 0.5 mol/l (0.5N) .....	412	Sodium thiosulfate 0.1 mol/l (0.1N) .....	506
		Potassium hydroxide 1 mol/l (1N) .....	412		

Product specifications are subject to changes.  
Please visit our website for updates.

## Nuclear fast red

C<sub>14</sub>H<sub>8</sub>NNaO<sub>7</sub>S  
 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	10g	Glass bottle	

Dye for cytology

## n-Octane

CH<sub>3</sub>(CH<sub>2</sub>)<sub>6</sub>CH<sub>3</sub>  
 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**

2.6/2; H225-3.10/1; H304-4.1.A/1; H400-4.1.C/1; H410-3.2/2; H315-3.8/3; H336  
 P210-P241-P304+P340-P403+P235-P405-P501a

### n-Octane > RPE-For analysis

RPE

Description.....Clear colourless liquid Refractive index at 20°C .....1.3940 ÷ 1.4010 Acidity (caprylic acid).....<=17 ppm Assay (GLC).....99 ÷ 100 %  
 Identification.....Positive Boiling point .....125.0 ÷ 126.0 °C Alkalinity (NH<sub>3</sub>).....<=0.2 ppm  
 Ready carbonizable substances.....Conform Water (K.F.).....<=100 ppm Subst. reducing KMnO<sub>4</sub>.....<=20 ppm (5m)  
 Density at 20° C.....0.697 ÷ 0.707 Residue on evaporation .....<=10 ppm Total sulphur.....<=50 ppm

Code	Size	Packaging	Notes
467562	1l	Glass bottle	

N

### n-Octane > RE-Pure

RE

Description.....Clear colourless liquid Refractive index at 20°C .....1.3925 - 1.4025 Total sulphur .....<=50 ppm  
 Identification.....Positive Boiling point .....124.5 - 126.5 °C Assay (GLC).....>=95 %  
 Colour.....<= 10 APHA Residue on evaporation.....<=30 ppm  
 Density at 20° C.....0.697 - 0.707 Acidity (caprylic acid).....<=50 ppm

Code	Size	Packaging	Notes
356661	1l	Glass bottle	

## Octanoic acid ▶ n-Caprylic acid

## Octanol-1

Synonyms : *Capryl alcohol*  
*Octyl alcohol*

CH<sub>3</sub>(CH<sub>2</sub>)<sub>6</sub>CH<sub>2</sub>OH  
 Molecular Weight 130,23  
 CAS : 111-87-5  
 EEC-N : 203-917-6



**Warning**

3.1.O/4; H302-3.2/2; H315-3.3/2; H319  
 P280-P305+P351+P338-P330-P332+P313-P337+P313-P501a

### Octanol-1 > RPE-For analysis

RPE

Description.....Clear colourless liquid Refractive index at 20°C .....1.425 - 1.440 Assay (GLC).....>= 99 %  
 Identification.....Positive Boiling point .....194.0 - 196.0 °C  
 Density at 25° C.....0.815 - 0.830 Melting point.....-16 - -14 °C

Code	Size	Packaging	Notes
415002	100ml	Glass bottle	
415003	1l	Glass bottle	
415004	30l	Plastic tank	

## 1-Octansulphonic acid sodium salt

C<sub>8</sub>H<sub>17</sub>NaO<sub>3</sub>S  
Molecular Weight 216,28  
CAS : 5324-84-5  
EEC-N : 226-195-4

### 1-Octansulphonic acid sodium salt > RS-For ionic exchange chromatography

RS

Description ..... White crystalline powder      pH ..... 5.5 - 7.5      Absorbance (0,25M)  
Identification ..... Positive      Loss on drying ..... ≤ 2.0 %      At 200 nm ..... ≤ 0.10 AU  
Water-insoluble matter ..... ≤ 0.1 %      Assay ..... ≥ 98 %      At 250 nm ..... ≤ 0.01 AU

Code	Size	Packaging	Notes
405861	25g	Glass bottle	

## Oil of cedar wood

CAS : 8002-27-9

### Oil of cedar wood > RS-For microscopy

RS

Description ..... Yellow colourless liquid      Identification ..... Positive      Density at 20° C ..... ~ 0.980

Code	Size	Packaging	Notes
466753	100ml	Glass bottle	
466757	1l	Glass bottle	

*Immersion medium for microscopy.*

## Oil refined of almonds

CAS : 8007-69-0

### Oil refined of almonds > ERBAPharm-According to pharmacopoeia: NF

ERBAPharm

Description ..... Yellow colourless liquid      Acid value ..... ≤ 0.5      Composition of fatty acids (GC) ..... Conform NF  
Identification ..... Positive      Peroxide value ..... ≤ 5.0      Sterol composition ..... Conform NF  
Relative density ..... 0.910 - 0.915      Not saponifiable matt. ..... ≤ 0.9 %

Code	Size	Packaging	Notes
356251	1l	Glass bottle	

## Oleic acid

CH<sub>3</sub>(CH<sub>2</sub>)<sub>7</sub>CH=CH(CH<sub>2</sub>)<sub>7</sub>COOH  
Molecular Weight 282,45  
CAS : 112-80-1  
EEC-N : 204-007-1



### Warning

3.2/2; H315-3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

### Oleic acid > RE-Pure

RE

Description ..... Clear yellow liquid      Density at 20° C ..... 0.890 - 0.910      Iodine value ..... ≥ 89 g / 100g  
Identification ..... Positive      Acid value ..... ≥ 195 mg KOH / g

Code	Size	Packaging	Notes
305704	1l	Glass bottle	
305701	24kg	Metal tank	

# ORA

## Orange G

C<sub>16</sub>H<sub>10</sub>N<sub>2</sub>Na<sub>2</sub>O<sub>7</sub>S<sub>2</sub>  
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      Loss on drying at 110°C.....<=10.00 %  
Identification.....Positive      Absorbance.....0.628 - 0.661

Code	Size	Packaging	Notes
423432	25g	Glass bottle	

*Dye for cytology*

## Orange II

C<sub>16</sub>H<sub>11</sub>N<sub>2</sub>NaO<sub>4</sub>S  
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	10g	Glass bottle	

*Dye for microscopy (histology). Indicator acid - base (pH 11.0 ÷ 13.0). For the extraction and determination of cationic surfactants.*

## Orcein

CAS : 1400-62-0  
EEC-N : 215-750-6



Warning

3.1.O/4; H302  
P264-P270-P330-P301+P312-P501a

### Orcein > RS-For microscopy-C.I. Natural Red 28

RS

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

Code	Size	Packaging	Notes
466858	5g	Glass bottle	

*Dye for botanical and histology.*

## Orcinol monohydrate

C<sub>7</sub>H<sub>8</sub>O<sub>2</sub>.H<sub>2</sub>O  
Molecular Weight 142,15  
CAS : 6153-39-5



Warning

3.1.O/4; H302-3.2/2; H315-3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

### Orcinol monohydrate > RPE-For analysis


RPE

Description.....White powder or pinkish      Melting point.....56 - 61 °C      Residue on ignition.....<= 0.1 %  
Identification.....Positive      Water (K.F.).....12.2 - 13.2 %      Assay (GLC).....>= 98.5 %

Code	Size	Packaging	Notes
466908	5g	Glass bottle	



**Orthophosphoric acid 99%**


<p>H<sub>3</sub>PO<sub>4</sub> Molecular Weight 97,995 CAS : 7664-38-2 EEC-N : 231-633-2</p>	<p><b>Classification transport</b> ONU: 3453 Transport Hazard class: 8 Packing group III</p>	<p> <b>Danger</b> 3.2/1B; H314 P260-P280-P304+P340-P305+P351+P338-P405-P501a</p>
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**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	1kg	Plastic bottle	
405961	10kg	Plastic bottle	
405963	10kg	Plastic bucket	

**Orthophosphoric acid 85%**

<p>H<sub>3</sub>PO<sub>4</sub> Molecular Weight 97,995 CAS : 7664-38-2</p>	<p><b>Classification transport</b> ONU: 1805 Transport Hazard class: 8 Packing group III</p>	<p> <b>Danger</b> 3.2/1B; H314 P260-P280-P304+P340-P305+P351+P338-P405-P501a</p>
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**Orthophosphoric acid 85% > RS-VLSI For electronic use** RS

Code	Size	Packaging	Notes
527591	2,5l	Glass bottle	

**Orthophosphoric acid 85% > RS-RSE For electronic use** RS 0

Description.....Clear liquid	Heavy metals (Pb).....<=5 ppm	Ca.....<=20 ppm	Mg.....<=5 ppm
Colour.....<=10 APHA	Nitrate.....<=3 ppm	Cd.....<=5 ppm	Mn.....<=0.5 ppm
Identification.....Positive	Subst. reducing KMnO4.....<=10 ppm	Co.....<=10 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
406021	2,5l	Plastic bottle	
406029	320kg	Polythene-metal drum	

**Orthophosphoric acid 85% > RPE-For analysis-ISO-ACS-Reag.Ph.Eur.-Reag.USP** RPE

Description.....Clear liquid	Sulphate.....<=5 ppm	Ni.....<=5 ppm
Colour.....<=10 APHA	As.....<=5 ppm	Pb.....<=1 ppm
Identification.....Positive	Ca.....<=20 ppm	Sb.....<=4 ppm
Density at 20° C.....1.689 - 1.701	Cd.....<=5 ppm	Zn.....<=10 ppm
Volatile acid.....<=10 ppm	Co.....<=1 ppm	Assay (acidimetric).....85 - 87 %
Water-insoluble matter.....<=10 ppm	Cu.....<=2 ppm	Appearance of solution.....Conform Ph.Eur.
Chloride.....<=1 ppm	Fe.....<=5 ppm	Substances precipitated with ammonia.....Conform Ph.Eur.
Fluoride.....<=5 ppm	K.....<=50 ppm	Phosphorous and hypophosphorous acid.....Conform Ph.Eur.
Heavy metals (Pb).....<=5 ppm	Mg.....<=10 ppm	Alkali phosphates.....Conform USP-NF
Nitrate.....<=3 ppm	Mn.....<=0.5 ppm	
Reducing substances.....<=25 ppm	Na.....<=20 ppm	

Code	Size	Packaging	Notes
406002	1l	Plastic bottle	
406005	2,5l	Plastic bottle	
406003	40kg	Drum	

Product specifications are subject to changes. Please visit our website for updates.

## Orthophosphoric acid 85% >

ERBAPharm-According to pharmacopoeia: Ph.Eur.-USP-FU-Ph.Franc.-BP-DAB

Description.....	Clear colourless liquid	Nitrate.....	Conform USP-NF	Heavy metals (Pb).....	<=10 ppm
Identification.....	Positive	Alkali phosphates.....	Conform USP-NF	As.....	<=2 ppm
Appearance of solution.....	Conform Ph.Eur.	Density at 20° C.....	1.689 - 1.701	Fe.....	<=50 ppm
Hypophos. phosphor acid.....	Conform Ph.Eur.	Chloride.....	<=50 ppm	Assay (acidimetric).....	85 - 88 %
Hypophos. phosphor acid.....	Conform USP-NF	Sulphate.....	<=100 ppm	Origin (BSE/TSE).....	Synthesis
Subst. ppt by NH4OH.....	Conform Ph.Eur.	Sulphate.....	Conform USP-NF	Residual solvents (CPMP/ICH/283/95).....	Conform

Code	Size	Packaging	Notes
304061	1l	Plastic bottle	
304062	2,5l	Plastic bottle	
304063	40kg	Plastic tank	

## Orthophosphoric acid 85% > RE-Pure

RE

Description.....	Clear colourless liquid	Density at 20°C.....	1.69 - 1.71	Iron (Fe).....	<= 20 ppm
Assay.....	85.0 - 86.0 %	Residue on ignition.....	<= 20 ppm	Chloride (Cl).....	<= 5 ppm

Code	Size	Packaging	Notes
528535	5l	Plastic tank	

## Orthophosphoric acid 75%

H<sub>3</sub>PO<sub>4</sub>  
Molecular Weight 97,995  
CAS : 7664-38-2

### Classification transport

ONU: 1805  
Transport Hazard class: 8  
Packing group III



### Danger

3.2/1B; H314  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

## Orthophosphoric acid 75% > RE-Pure

RE

Description.....	Clear liquid	Chloride.....	<=5 ppm	As.....	<=1 ppm
Identification.....	Positive	Heavy metals (Pb).....	<=10 ppm	Fe.....	<=10 ppm
Density at 20° C.....	1.569 - 1.576	Sulphate.....	<=120 ppm	Assay (acidimetric).....	>=74.5 %

Code	Size	Packaging	Notes
304051	1l	Plastic bottle	
304054	2,5l	Plastic bottle	
304052	85kg	Drum	

## Orthophosphoric acid-d<sub>3</sub> 85% in D<sub>2</sub>O

D<sub>3</sub>O<sub>4</sub>P  
CAS : 14335-33-2

### Classification transport

ONU: 1760  
Transport Hazard class: 8  
Packing group II



### Danger

3.2/1B; H314  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

## Orthophosphoric acid-d<sub>3</sub> 85% in D<sub>2</sub>O > RS-For NMR-min 99%

RS

Code	Size	Packaging	Notes
P5055	25ml	Glass bottle	

## Osmium standard solution

### Classification transport

ONU: 1789  
Transport Hazard class: 8  
Packing group III



### Danger

3.2/1C; H314  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

## Osmium standard solution > RS-Standard for ICP-MS

RS


Code	Size	Packaging	Notes
505758	100ml	Plastic bottle	conc. 100 ppm Matrix : Hydrochloric acid

## Osmium (VIII) oxide

Synonym : Osmium tetroxide

OsO<sub>4</sub>  
Molecular Weight 254,2  
CAS : 20816-12-0  
EEC-N : 244-058-7

**Classification transport**  
ONU: 2471  
Transport Hazard class: 6.1  
Packing group I

 **Danger**  
3.1.O/2; H300-3.1.D/1; H310-3.1.I/2; H330-3.2/1B; H314  
P260-P302+P350-P304+P340-P305+P351+P338-P405-P501a

## Osmium (VIII) oxide &gt; RPE-For analysis


RPE

Description.....Yellow crystals Melting point.....40.0 - 42.0 ° C  
Identification.....Positive Non volat.substances.....<= 0,2 %

Code	Size	Packaging	Notes
524701	0,5g	Plastic ampoule	5 units / box
408687	1g	Glass ampoule	5 units / box

## Osmium oxide 4% in solution

**Classification transport**  
ONU: 3287  
Transport Hazard class: 6.1  
Packing group II

 **Danger**  
3.1.D/2; H310-3.3/1; H318-3.1.I/4; H332-3.2/2; H315  
P261-P302+P350-P304+P340-P305+P351+P338-P405-P501a

## Osmium oxide 4% in solution &gt; RPE-For analysis

RPE

Assay.....2 - 4 % (m/m)

Code	Size	Packaging	Notes
524711	5ml	Glass ampoule	5 units / box

## Oxalic acid dihydrate

(COOH)<sub>2</sub>·2H<sub>2</sub>O  
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**  
3.1.O/4; H302-3.1.D/4; H312  
P280-P312-P330-P363-P301+P312-P501a

## Oxalic acid dihydrate &gt; RPE-For analysis-ACS-Reag.Ph.Eur.-Reag.USP

RPE

Description.....White crystals Chloride.....<= 20 ppm Ca.....<= 10 ppm  
Identification.....Positive Water-insoluble matter.....<= 50 ppm Fe.....<= 2 ppm  
Substances darkened by sulphuric acid.....Conform Heavy metals (Pb).....<= 5 ppm Assay (oxidimetric).....99.5 - 102.5 %  
Total nitrogen.....<= 10 ppm Residue on ignition.....<= 100 ppm Sulphate.....<= 50 ppm

Code	Size	Packaging	Notes
408736	500g	Plastic bottle	
408737	1kg	Plastic bottle	
408731	5kg	Plastic bottle	
408733	25kg	Fibre drum	

## Oxalic acid dihydrate &gt; RE-Pure


RE

Description.....White crystals Fe.....<= 10 ppm  
Identification.....Positive Assay (acidimetric).....>= 99.5 %

Code	Size	Packaging	Notes
305757	1kg	Plastic bottle	

## Oxalic acid 0.5 mol/l (1N)

**Classification transport**  
ONU: 3265  
Transport Hazard class: 8  
Packing group II

 **Danger**  
3.2/1A; H314  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

## Oxalic acid 0.5 mol/l (1N) &gt; RPE-For analysis

RPE

Description.....Clear colourless liquid Assay (potentiometry).....0.998 - 1.002 N

Code	Size	Packaging	Notes
408826	500ml	Plastic bottle	

45,02 g of C<sub>2</sub>H<sub>2</sub>O<sub>4</sub>. Volumetric solution ready-to-use : 1N. For oxydometry. Stabilized with sulfuric acid.

# OXA

## Oxalic acid 0.05 mol/l (0.1N)

### Classification transport

ONU: 3265  
Transport Hazard class: 8  
Packing group II



### Danger

3.2/1A; H314  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

### 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	500ml	Plastic bottle	

4,502 g of  $C_2H_2O_4$ . Volumetric solution ready-to-use : 0,1N. 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	Normex	Plastic ampoule	

Volumetric concentrated solution to prepare 1 L of solution 0,1 N.

## Oxalic acid 0.005 mol/l (0.01N)

### Classification transport

ONU: 3265  
Transport Hazard class: 8  
Packing group II



### Danger

3.2/1A; H314  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

### 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	Normex	Plastic ampoule	

Volumetric concentrated solution to prepare 1 L of solution 0,01 N.

## Palladium standard solution

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

**RS**

Code	Size	Packaging	Notes
615003600	100ml	Bottle	A 500 ppm solution Ref Ph.Eur 5003600

### Palladium standard solution > RS-Standard for ICP-MS

**RS**

Code	Size	Packaging	Notes
505771	50ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505772	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505775	100ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid

### Palladium standard solution > RS-Standard for ICP

**RS**

Code	Size	Packaging	Notes
503811	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
503815	100ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrochloric acid
503813	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
503817	500ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrochloric acid

## Palladium (II) chloride

PdCl<sub>2</sub>  
Molecular Weight 177,31  
CAS : 7647-10-1  
EEC-N : 231-596-2

**Classification transport**  
ONU: 3288  
Transport Hazard class: 6.1  
Packing group III

### Palladium (II) chloride > RPE-For analysis


RPE

Description.....Red brown powder Identification.....Positive Assay (gravimetric) .....>=59,5 % Pd

Code	Size	Packaging	Notes
467737	1g	Glass bottle	
467731	10g	Glass bottle	

## Palladium nitrate 2 g/L solution

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


 **Warning**  
3.1.1/4; H332-3.2/2; H315-3.3/2; H319  
P261-P271-P280-P304+P340-P305+P351+P338-P312

### Palladium nitrate 2 g/L solution > RS-Matrix modifiers for AAS-GTA

RS

Code	Size	Packaging	Notes
503198	50ml	Bottle	Matrix : 1% Nitric acid

## Papanicolaou Haematoxylin solution

 **Warning**  
3.9/2; H373-4.1.C/3; H412  
P260-P273-P314-P501a

### Papanicolaou Haematoxylin solution > RS-For microscopy

RS



Description.....Dark red liquid Max absorbance wave-length.....555 - 560 nm  
Identification.....Positive Absorbance(lambda max).....>=0.52 uA

Code	Size	Packaging	Notes
446464	6x500ml	Glass bottle	
446465	6x1l	Glass bottle	
446466	4x2,5l	Glass bottle	

*Dye for cytological diagnosis and oncology according to Harris.*

## Papanicolaou solution EA 50

**Classification transport**  
ONU: 1992  
Transport Hazard class: 3  
Packing group II

  **Danger**  
2.6/2; H225-3.8/2; H371  
P210-P241-P309+P311-P403+P235-P405-P501a

### Papanicolaou solution EA 50 > RS-For microscopy

RS

Description.....Green clear liquid Density at 20°C .....~ 0.83 Absorbance at 625-645 nm.....0.40-0.60  
Identification.....Positive Absorbance at 510-530 nm.....2.5-2.9 Empirical test .....Positive

Code	Size	Packaging	Notes
E467784	6x500ml	Glass bottle	
E467785	6x1l	Glass bottle	
E467786	4x2,5l	Glass bottle	

*Dye for cytological diagnosis and oncology. Contains ethanol and methanol.*

## Papanicolaou solution OG 6

### Classification transport

ONU: 1986  
 Transport Hazard class: 3  
 Packing group II



### Danger

2.6/2; H225-3.8/2; H371  
 P210-P241-P309+P311-P403+P235-P405-P501a

### Papanicolaou solution OG 6 > RS-For microscopy

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
E467794	6x500ml	Glass bottle	
E467795	6x1l	Glass bottle	
E467796	4x2,5l	Glass bottle	

*Dye for cytological diagnosis and oncology. Contains ethanol and methanol.*

## Paraffin 57°C-59°C

CAS : 92045-76-6  
 EEC-N : 295-458-3

### Paraffin 57°C-59°C > RPE-For analysis

RPE

Description .....White mass Identification .....Positive Melting point .....57 - 59 °C

Code	Size	Packaging	Notes
467961	1kg	Metallic can	
467964	2,5kg	Metallic can	
467963	20kg	Drum	

## Paraffin 56-58°C without DMSO

CAS : 92045-76-6  
 EEC-N : 295-458-3

### Paraffin 56-58°C without DMSO > RS-For histology

RS

Description .....White pellets Melting point .....56 - 58 °C

Code	Size	Packaging	Notes
467978	4x2kg	Bag	

## Paraffin 56°C-58°C - Erbaplast (with 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	4x2kg	Bag	

## Paraffin 54°C-58°C - New Erbaplast (without DMSO)

CAS : 92045-76-6  
EEC-N : 295-458-3

### ▶ Paraffin 54°C-58°C - New Erbaplast (without DMSO) > RS-For histology

RS

Description .....White pellets Identification.....Positive Melting point .....54 - 58 °C

Code	Size	Packaging	Notes
467871	4X2,5kg	Bag	

## Paraffin 51°C-53°C

CAS : 92045-76-6  
EEC-N : 295-458-3

### ▶ Paraffin 51°C-53°C > RPE-For analysis

RPE

Description .....White mass Identification.....Positive Melting point .....51 - 53 °C

Code	Size	Packaging	Notes
467901	1kg	Metallic can	
467904	2,5kg	Metallic can	
467903	20kg	Drum	

## Paraffin 50°C-54°C - New Erbaplast X-TRA (without DMSO)

CAS : 92045-76-6  
EEC-N : 295-458-3

### ▶ Paraffin 50°C-54°C - New Erbaplast X-TRA (without DMSO) > RS-For histology

RS

Description .....White pellets Identification.....Positive Melting point .....50 - 54 °C

Code	Size	Packaging	Notes
467881	4x2,5kg	Bag	

## Paraffin 50°C-54°C - Erbaplast X-TRA (with DMSO)

CAS : 92045-76-6  
EEC-N : 295-458-3

### ▶ Paraffin 50°C-54°C - Erbaplast X-TRA (with DMSO) > RS-For histology

RS

Description .....White mass Identification.....Positive Melting point .....50 - 54 °C

Code	Size	Packaging	Notes
467944	4x2,5kg	Bag	

# PAR

## Paraffin 46°C-48°C

CAS : 92045-76-6  
EEC-N : 295-458-3

### ▶ Paraffin 46°C-48°C > RPE-For analysis

RPE

Description.....White mass Identification.....Positive Melting point .....46 - 48 °C

Code	Size	Packaging	Notes
467891	1kg	Metallic can	
467893	2,5kg	Metallic can	

## Paraffin pellets 60°C-62°C

CAS : 92045-76-6  
EEC-N : 295-458-3

### ▶ Paraffin pellets 60°C-62°C > RS-For histology

RS

Description.....White pellets Identification.....Positive Melting point .....60 - 62 °C

Code	Size	Packaging	Notes
467921	1kg	Bag	
467923	10kg	Bag	

## Paraffin oil

CAS : 8012-95-1  
EEC-N : 232-384-2



Warning

3.3/2; H319  
P280-P264-P305+P351+P338-P337+P313

### ▶ 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	100ml	Glass bottle	

### ▶ Paraffin oil > ERBAPharm-According to pharmacopoeia: Ph.Eur.-USP-FU-Ph.Franc.-BP

ERBAPharm

Description.....Colourless oily liquid Ready carbonizable substances.....Conform Ph.Eur. Density at 20°C.....0.827 - 0.890  
Identification.....Positive Scale wax.....Conform Ph.Eur. Density at 25°C.....0.845 - 0.905  
Acidity or alkalinity.....Conform Ph.Eur. Viscosity at 20°C.....110 - 230 mPa x s  
Polynuclear hydrocarbon.....Conform Ph.Eur. Viscosity at 40°C.....34.5 - 150 mm 2/s

Code	Size	Packaging	Notes
356601	1l	Glass bottle	
356608	5l	Aluminium can	
356603	23kg	Metal tank	
356607	180kg	Metal drum	

## Paraffin solid

CAS : 92045-76-6  
EEC-N : 295-458-3

### ▶ Paraffin solid > RE-Pure

RE

Description.....White mass Melting point .....>= 52 °C Sulphated ash.....<= 0.1 %  
Identification.....Positive Acidity or alkalinity.....Conform

Code	Size	Packaging	Notes
356854	5kg	Metallic can	



## Paraffin white soft

Synonym : Vaseline

EEC-N : 232-373-2



Danger

3.6/1B; H350-A26  
P281-P201-P202-P308+P313-P405-P501a

## ▶ Paraffin white soft &gt; ERBAPharm-According to pharmacopoeia: BP-NF

ERBAPharm

Description .....White mass  
 Consistency .....60 - 300 BP  
 Melting point .....47.0 - 65.0 ° C  
 Identification.....Positive  
 Ready carbonizable substances.....Conform USP-NF  
 Sulphated ash.....<=0.05 %  
 Reaction .....Conform USP-NF  
 Acidity or alkalinity .....Conform BP  
 Appearance molten material .....Conform BP  
 Polynuclear hydrocarbon.....<= 300 ppm

Code	Size	Packaging	Notes
388407	1kg	Metal bucket	
388409	5kg	Plastic bottle	
388404	50kg	Plastic drum	

## Paraformaldehyde

Synonym : Polyoxymethylene

(CH<sub>2</sub>O)<sub>n</sub>  
CAS : 30525-89-4

## Classification transport

ONU: 2213  
Transport Hazard class: 4.1  
Packing group III

Danger

3.1.1/3; H331-2.7/2; H228-3.6/2; H351-3.1.0/4; H302-3.2/2; H315-3.3/2; H319-3.4.S/1; H317-3.8/3; H335  
P210-P241-P304+P340-P305+P351+P338-P405-P501a

## ▶ Paraformaldehyde &gt; RE-Pure

RE

Description .....White powder  
 Assay (oxidimetric) .....>= 95 %  
 Insoluble in NH<sub>4</sub>OH .....Passes test  
 Identification.....Positive  
 Acidity or alkalinity .....Passes test  
 Sulphated ash.....<= 0.1 %  
 Heavy metals (Pb).....<= 0.001 %

Code	Size	Packaging	Notes
387507	1kg	Plastic bottle	
387503	25kg	Fibre drum	

## Pararosaniline solution, decolorised



Danger

3.6/1B; H350-A26  
P281-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	100ml	Bottle	Ref Ph.Eur 1062201

Storage: protected from light

## n-Pentane 99%

CH<sub>3</sub>(CH<sub>2</sub>)<sub>3</sub>CH<sub>3</sub>  
Molecular Weight 72,15  
CAS : 109-66-0  
EEC-N : 203-692-4

## Classification transport

ONU: 1265  
Transport Hazard class: 3  
Packing group II

Danger

2.6/2; H225-3.10/1; H304-3.8/3; H336-4.1.C/2; H411-EUH066  
P210-P241-P304+P340-P403+P235-P405-P501a

## ▶ n-Pentane 99% &gt; RS-ATRASOL- For trace analysis

RS

Refractive index at 20°C .....1.355 - 1.359  
 GC ( FID ) - NC Atrasol.....Conform  
 GC-FID.Individ. peak (hexadecane).....<= 5 µg/l  
 Water content (K.F).....<= 50 mg/Kg  
 GC-ECD.Individual peak (CCl<sub>4</sub>).....<= 1 µg/l  
 Colour .....<= 10 Hazen  
 Ret.time dichloromethane- trichlorobenz.  
 Assay (GC).....>= 99 %  
 GC-ECD.Individual peak (Lindane) .....<= 2 ng/l  
 Non volatile residue .....<= 2 mg/Kg  
 Retention time trichlorobenzene to mirex  
 Free acid (as CH<sub>3</sub>COOH) .....<= 10 mg/Kg  
 Total sulphur (S) .....<= 10 ppm

Code	Size	Packaging	Notes
P064323016	1l	Glass bottle	

Product specifications are subject to changes.  
Please visit our website for updates.

# PEN

## n-Pentane 99% > RS-SPECTROSOL - For optical spectroscopy

RS

Description .....	Clear colourless liquid	Boiling point .....	35.8 - 36.3 °C	Aromatic compounds .....	<=5 ppm	At 230 nm .....	>=95 %
Identification .....	Positive	Acidity or alkalinity .....	<=0.0002 meq/g	Assay (GLC) .....	>=99 %	From 240 nm .....	>=98 %
Colour .....	<=10 APHA	Water (K.F.) .....	<=50 ppm	<b>U.V. Transmittance</b>			
Density at 20° C .....	0.623 - 0.629	Residue on evaporation .....	<=2 ppm	At 210 nm .....	>=45 %		
Refractive index at 20° C .....	1.3552 - 1.3606	Total sulphur .....	<=10 ppm	At 220 nm .....	>=89 %		

Code	Size	Packaging	Notes
468142	1l	Glass bottle	
468141	2,5l	Glass bottle	

## n-Pentane 99% > RS-For environmental analysis

RS

Description .....	Clear liquid	Not volatile residue .....	<= 5 ppm	GC-ECD (Lindane) .....	<= 2 ng/l
Identification .....	Positive	Free acids (CH <sub>3</sub> COOH) .....	<= 10 ppm	GC-FID (Hexadecane) .....	<= 5 µg/l
Colour .....	<= 10 APHA	Total sulphur .....	<= 10 ppm	Assay (GLC) .....	>= 99 %
Water .....	<= 50 ppm	GC-ECD (Carbone tetrachloride) .....	<= 1 µg/l		

Code	Size	Packaging	Notes
468204	1l	Glass bottle	

## n-Pentane 99% > RPE-For analysis-Reag. Ph.Eur.-Reag. USP

RPE

Description .....	Clear liquid	Density at 20° C .....	0.623 - 0.629	Total phosphorus .....	<=0.5 ppm	K .....	<=0.2 ppm
Colour .....	<=10 APHA	Refractive index at 20° C .....	1.3552 - 1.3606	Total silicon .....	<=0.02 ppm	Mg .....	<=0.1 ppm
Identification (I.R.) .....	Positive	Boiling point .....	35.8 - 36.3 °C	Total sulphur .....	<=5 ppm	Na .....	<=1 ppm
Alcohol miscibility .....	Complete	Acidity or alkalinity .....	<=0.0001 meq/g	Ca .....	<=0.5 ppm	Pb .....	<=0.05 ppm
Diethyl ether miscib. ....	Complete	Water (K.F.) .....	<=100 ppm	Cu .....	<=0.05 ppm	Zn .....	<=0.1 ppm
Chloroform miscibility .....	Complete	Residue on evaporation .....	<=20 ppm	Fe .....	<=0.2 ppm	Assay (GLC) .....	>=99 %

Code	Size	Packaging	Notes
468151000	1l	Glass bottle	

## n-Pentane 99% > RE-Pure

RE

Description .....	Clear liquid	Refractive index at 20° C .....	1.3529 - 1.3629	Aromatic compounds .....	<= 10 ppm
Identification .....	Positive	Boiling point .....	34.75 - 37.25 °C	Assay (GLC) .....	>= 99 %
Colour .....	<= 10 APHA	Residue on evaporation .....	<= 20 ppm		
Density at 20° C .....	0.621 - 0.631	Water (K.F.) .....	<= 150 ppm		

Code	Size	Packaging	Notes
528994	1l	Glass bottle	
528993	2,5l	Glass bottle	
528995	5l	Aluminium can	
528996	25l	Metal tank	
528997	200l	Metal drum	

P

## n-Pentane

CH<sub>3</sub>(CH<sub>2</sub>)<sub>3</sub>CH<sub>3</sub>  
Molecular Weight 72,15  
CAS : 109-66-0  
EEC-N : 203-692-4

**Classification transport**  
ONU: 1265  
Transport Hazard class: 3  
Packing group II



**Danger**

2.6/2; H225-3.10/1; H304-3.8/3; H336-4.1.C/2; H411-EUH066  
P210-P241-P304+P340-P403+P235-P405-P501a

## n-Pentane > RS-For HPLC Isocratic

RS

Refractive index at 20° C .....	1.355 - 1.359	<b>U.V. Transmittance</b>	At 300 nm .....	>= 98 %	Total sulphur (S) .....	<= 2 ppm	
Water content (K.F.) .....	<= 100 mg/Kg	At 210 nm .....	>= 5 %	Aromatic compounds .....	<= 5 mg/Kg	Free acid (as CH <sub>3</sub> COOH) .....	<= 10 mg/Kg
Colour .....	<= 10 Hazen	At 230 nm .....	>= 80 %	Non volatile residue .....	<= 5 mg/Kg		
		At 290 nm .....	>= 85 %	Assay (GC) .....	>= 95 %		

Code	Size	Packaging	Notes
P0643721	2,5l	Glass bottle	

## n-Pentane > RS-ATRASOL-For trace analysis, Suitable for hydrocarbon index determination

RS

Appearance .....	Clear colourless liquid	Colour .....	<= 5 Hazen	Hydrocarbon oil index .....	<= 0.05 mg/l
Refractive index at 20° C .....	1.355 - 1.359	Non volatile residue .....	<= 2 mg/Kg	<b>Retention time n-decane - n-tetracontane</b>	
Density d <sub>20</sub> /4 .....	0.621 - 0.631	GC-ECD. Individual peak (Lindane) .....	<= 3 ng/l	GC-FID. Individual peak (C10-C40) .....	<= 5 µg/l
Water content (K.F.) .....	<= 50 mg/Kg	<b>Retention time trichlorobenzene to mirex</b>		Assay (GC) .....	>= 96.5 %

Code	Size	Packaging	Notes
P0643221	2,5l	Glass bottle	

## ► n-Pentane &gt; RS-PESTIPUR- For pesticide analysis

RS

Description .....	Clear liquid	Acidity (acetic acid) .....	<= 10 ppm	GC-NPD (Ethylparation).....	<= 3 ng/l
Identification.....	Positive	Not volatile residue.....	<= 5 ppm	Assay (GLC).....	>= 95 %
Colour .....	<= 10 hazen	Total sulphur.....	<= 2 ppm		
Water .....	<= 50 ppm	GC-ECD (Lindane).....	<= 3 ng/l		

Code	Size	Packaging	Notes
468161	1l	Glass bottle	
468162	2,5l	Glass bottle	

## ► n-Pentane &gt; RS-Anhydrous-For analysis

RS

Refractive index at 20°C .....	1.355 - 1.359	Assay (GC).....	>= 95 %	2,2-dimethylbutane.....	<= 1 %
Water content (K.F.).....	<= 50 mg/Kg	Aromatic compounds.....	<= 20 mg/Kg	Total sulphur (S) .....	<= 2 ppm
Non volatile residue .....	<= 10 mg/Kg	n-hexane.....	<= 0.4 %	Free acid (as CH3COOH).....	<= 10 mg/Kg
Colour .....	<= 10 Hazen	Cyclopentane.....	<= 1 %		

Code	Size	Packaging	Notes
P0641016	1l	Glass bottle	

## ► n-Pentane &gt; RPE-For analysis

RPE

Refractive index at 20°C .....	1.355 - 1.359	Assay (GC).....	>= 95 %	2,2-dimethylbutane.....	<= 1 %
Water content (K.F.).....	<= 150 mg/Kg	Aromatic compounds.....	<= 20 mg/Kg	Total sulphur (S) .....	<= 2 ppm
Non volatile residue .....	<= 10 mg/Kg	n-hexane.....	<= 0.4 %	Free acid (as CH3COOH).....	<= 10 mg/Kg
Colour .....	<= 10 Hazen	Cyclopentane.....	<= 1 %		

Code	Size	Packaging	Notes
468121	1l	Glass bottle	
468122	2,5l	Glass bottle	
468124	5l	Plastic tank	
468123	200l	Metal drum	

## ► n-Pentane &gt; RE-Pure

RE

Description .....	Clear colourless liquid	Refractive index at 20°C .....	1.3529 - 1.3629	Assay (GLC).....	>=95 %
Identification.....	Positive	Water (K.F.) .....	<=200 ppm	Colour.....	<= 10 APHA
Density at 20° C.....	0.621 - 0.631	Residue on evaporation .....	<=20 ppm	n-Hexane .....	<= 0.4 %

Code	Size	Packaging	Notes
356951	1l	Glass bottle	
356954	5l	Aluminium can	
356953	200l	Metal drum	
356952	16kg	Metal tank	

## 2,4-Pentanedione ► Acetylacetone

## 1-Pentanesulphonic acid sodium salt

CH<sub>3</sub>(CH<sub>2</sub>)<sub>4</sub>SO<sub>3</sub>Na.H<sub>2</sub>O  
 Molecular Weight 174,19  
 CAS : 22767-49-3  
 EEC-N : 245-208-4

## ► 1-Pentanesulphonic acid sodium salt &gt; RS-For ionic exchange chromatography

RS

Description .....	White crystalline powder	Phosphate .....	<= 10 ppm	K .....	<= 50 ppm	At 200 nm .....	<= 0.10 AU
Identification.....	Positive	Ammonium .....	<= 0.05 %	Mg .....	<= 5 ppm	At 220 nm .....	<= 0.05 AU
Water-insoluble matter .....	<= 0.1 %	Al.....	<= 5 ppm	Pb .....	<= 10 ppm	At 250 nm .....	<= 0.01 AU
pH.....	5.5 - 7.5	Ca.....	<= 10 ppm	Zn.....	<= 5 ppm		
Loss on drying .....	<= 2.0 %	Cu.....	<= 5 ppm	Assay .....	>= 98 %		
Chloride .....	<= 0.05 %	Fe.....	<= 5 ppm	Absorbance (0,25M)			

Code	Size	Packaging	Notes
405841	25g	Glass bottle	

Product specifications are subject to changes.  
 Please visit our website for updates.

# PEN

## 1-Pentanesulphonic acid sodium salt > RPE-For analysis

RPE

Description .....White powder Identification.....Positive Assay .....>=95 %

Code	Size	Packaging	Notes
409062	5g	Glass bottle	

## Pentanol-1 ▶ n-Amyl alcohol

## Pepsin HCl

### Classification transport

ONU: 1789  
Transport Hazard class: 8  
Packing group II



### Warning

3.2/2; H315-3.3/2; H319-3.8/3; H335-EUH208  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

## Pepsin HCl > RPE-For analysis

RPE

Description .....Clear colourless liquid Identification.....Positive Assay .....0.25 ± 0.35 HCl %

Code	Size	Packaging	Notes
468245	250ml	Bottle	

Cleaning solution proteins

Peptide synthesis, solvents with low water content and amine content controlled by the bromphenol blue test or by the Kaiser test.

Acetonitrile.....12 n-Methyl-2-pyrrolidone .....332 Pyridine.....435  
n,n-Dimethylformamide .....171 Piperidine.....394 Trifluoroacetic acid .....563

## Perchloric acid 65-71%

HClO<sub>4</sub>  
Molecular Weight 100,47  
CAS : 7601-90-3

### Classification transport

ONU: 1873  
Transport Hazard class: 5.1  
Packing group I



### Danger

2.13/1; H271-3.2/1A; H314  
P210-P221-P283-P304+P340-P305+P351+P338-P405-P501a

## Perchloric acid 65-71% > RS-Superpure-For trace analysis

RS

Description.....Clear liquid	Cs.....<= 0.5 ppb	La.....<= 0.5 ppb	Pr.....<= 0.5 ppb	Tm.....<= 0.5 ppb
Identification.....Positive	Co.....<= 0.5 ppb	Pb.....<= 1 ppb	Rh.....<= 0.5 ppb	Sn.....<= 1 ppb
Colour.....<= 10 APHA	Cu.....<= 0.5 ppb	Li.....<= 0.5 ppb	Rb.....<= 0.5 ppb	Ti.....<= 1 ppb
Al.....<= 1 ppb	Dy.....<= 0.5 ppb	Lu.....<= 0.5 ppb	Sm.....<= 0.5 ppb	U.....<= 0.5 ppb
Sb.....<= 0.5 ppb	Er.....<= 0.5 ppb	Mg.....<= 1 ppb	Sc.....<= 0.5 ppb	V.....<= 0.5 ppb
As.....<= 0.5 ppb	Eu.....<= 0.5 ppb	Mn.....<= 1 ppb	Ag.....<= 1 ppb	Yb.....<= 0.5 ppb
Ba.....<= 1 ppb	Gd.....<= 0.5 ppb	Mo.....<= 0.5 ppb	Na.....<= 1 ppb	Y.....<= 0.5 ppb
Be.....<= 0.5 ppb	Ga.....<= 0.5 ppb	Nd.....<= 0.5 ppb	Sr.....<= 0.5 ppb	Zn.....<= 1 ppb
Bi.....<= 0.5 ppb	Au.....<= 0.5 ppb	Ni.....<= 1 ppb	Te.....<= 0.5 ppb	Zr.....<= 0.5 ppb
Cd.....<= 1 ppb	Ho.....<= 0.5 ppb	Pd.....<= 0.5 ppb	Tb.....<= 0.5 ppb	Assay (acidimetric).....65 - 71 %
Ca.....<= 1 ppb	In.....<= 0.5 ppb	Pt.....<= 0.5 ppb	Tl.....<= 0.5 ppb	
Ce.....<= 0.5 ppb	Fe.....<= 1 ppb	K.....<= 1 ppb	Th.....<= 1 ppb	

Code	Size	Packaging	Notes
409196	1l	Plastic bottle	

## Perchloric acid 65%

HClO<sub>4</sub>  
Molecular Weight 100,47  
CAS : 7601-90-3

### Classification transport

ONU: 1873  
Transport Hazard class: 5.1  
Packing group I



### Danger

2.13/1; H271-3.2/1A; H314  
P210-P221-P283-P304+P340-P305+P351+P338-P405-P501a

## Perchloric acid 65% > RS-For environmental analysis -ISO

RS

Description.....Clear liquid	Residue on ignition.....<=30 ppm	Cr.....<=0.2 ppm	Pb.....<=0.05 ppm
Colour.....<=10 APHA	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	
Phosphate-silicate(SiO <sub>2</sub> ).....<=1 ppm	Co.....<=0.05 ppm	Ni.....<=0.1 ppm	

Code	Size	Packaging	Notes
409121	1l	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 .....	<=10 APHA	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		
Phosphate-silicate(SiO2).....	<=5 ppm	Cd.....	<=0.05 ppm	Ni.....	<=0.1 ppm		

Code	Size	Packaging	Notes
409111	1l	Bottle	
409113	35kg	Drum	

▶ **Perchloric acid 65% > RE-Pure**

**RE**

Description .....	Clear colourless liquid	Chloride .....	<=10 ppm	Sulphate .....	<=50 ppm
Identification.....	Positive	Phosphate-silicate(SiO2).....	<=50 ppm	Fe.....	<=5 ppm
Density at 20° C.....	1.587 - 1.607	Heavy metals (Pb).....	<=1 ppm	Assay (acidimetric) .....	.64 - 66 %
Total nitrogen .....	<=50 ppm	Residue on ignition .....	<=50 ppm		

Code	Size	Packaging	Notes
306091	1l	Glass bottle	

**Perchloric acid 60%**

HClO<sub>4</sub>  
Molecular Weight 100,46  
CAS : 7601-90-3

**Classification transport**  
ONU: 1873  
Transport Hazard class: 5.1  
Packing group I

 **Danger**  
2.13/1; H271-3.2/1A; H314  
P210-P221-P283-P304+P340-P305+P351+P338-P405-P501a

▶ **Perchloric acid 60% > RPE-For agroalimentary analysis**

**RPE**

Description .....	Clear colourless liquid	Chloride .....	<= 10 ppm	Sulphate .....	<= 50 ppm
Identification.....	Positive	Phosphate-silicate(SiO2).....	<= 50 ppm	Fe.....	<= 5 ppm
Density at 20° C.....	1.587 - 1.607	Heavy metals (Pb).....	<= 1 ppm	Assay (acidimetric) .....	.60 - 67 %
Total nitrogen .....	<= 50 ppm	Residue on ignition .....	<= 50 ppm		

Code	Size	Packaging	Notes
502046	1l	Glass bottle	

**Perchloric acid 0.1 mol/l (0.1N) in acetic acid**

**Classification transport**  
ONU: 3098  
Transport Hazard class: 8  
Packing group II

 **Danger**  
2.13/1; H271-3.2/1A; H314-2.6/3; H226  
P210-P221-P241-P283-P304+P340-P305+P351+P338-P403+P235-P405-P501a

▶ **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
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Code	Size	Packaging	Notes
409136	500ml	Glass bottle	
409131	1l	Glass bottle	

10,046 g of HClO<sub>4</sub>. 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)**

**Classification transport**  
ONU: 3098  
Transport Hazard class: 8  
Packing group II

 **Danger**  
2.13/1; H271-3.2/1A; H314-2.6/3; H226  
P210-P221-P241-P283-P304+P340-P305+P351+P338-P403+P235-P405-P501a

▶ **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	1l	Bottle	Ref Ph.Eur 3003900

# PER

## Perchloric acid 0.01 mol/l (0.01N)

### Classification transport

ONU: 2734  
 Transport Hazard class: 8  
 Packing group II



### Danger

3.2/1A; H314-2.6/3; H226  
 P210-P241-P304+P340-P305+P351+P338-P403+P235-P405-P501a

### 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	500ml	Glass bottle	

1,0046 g of HClO<sub>4</sub>. Volumetric solution ready-to-use : 0,01 N. Solution in acetic anhydride.

## Perchloric acid solution

### Perchloric acid solution > RS-For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611062901	100ml	Bottle	Ref Ph.Eur 1062901

## Periodic acid

HIO<sub>4</sub>.2H<sub>2</sub>O  
 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

2.14/2; H272-3.2/1B; H314  
 P210-P221-P304+P340-P305+P351+P338-P405-P501a

### Periodic acid > RPE-For analysis

RPE

Description.....White-yellowish crystalline powder Iodide .....< 10 ppm Nitrate .....< 100 ppm  
 Identification.....Positive Chlorides, bromides +-Chlorinated-brominated (Cl).....< 200 ppm Assay (iodometric).....> 99.0 %  
 Aspect solution 5% .....Complete Sulphated ash.....< 0.05 %

Code	Size	Packaging	Notes
409182	25g	Glass bottle	
409184	100g	Glass bottle	
409185	250g	Glass bottle	

## PESTIPUR, Solvents for pesticides residue analysis

Acetone.....9	Ethyl acetate.....193	Isooctane.....278
Acetonitrile.....12	n-Heptane.....228	Methanol.....320
tert-Butylmethylether.....94	n-Heptane 99%.....227	Petroleum ether 35 - 60°C.....382
Chloroform.....121	Heptane mixture of isomers.....229	Petroleum ether 40 - 65°C.....381
Cyclohexane.....147	n-Hexane.....232	n-Pentane.....374
Dichloromethane.....158	n-Hexane 99%.....231	Toluene.....556
Diethyl ether.....165	Hexane mixture of isomers.....233	
n,n-Dimethylformamide.....171	Isohexane.....277	

## Petroleum

CAS : 64771-72-8  
 EEC-N : 265-233-4

### Petroleum > RE-Pure

RE

Description .....Clear colourless liquid Density at 15°C.....0.746 - 0.752 Residue on ignition .....<= 100 ppm  
 Identification (I.R.).....Positive Boiling point .....185 - 245 °C

Code	Size	Packaging	Notes
357151	1l	Glass bottle	
357155	21kg	Metal tank	

## Petroleum benzin E

CAS : 64742-49-0

### Classification transport

ONU: 3295  
 Transport Hazard class: 3  
 Packing group II



**Danger**

2.6/2; H225-3.5/1B; H340-3.10/1; H304-3.2/2; H315-3.8/3; H336-4.1.C/2; H411-A26  
 P210-P241-P301+P310-P403+P235-P405-P501a

### Petroleum benzin E > RE-Pure-For synthesis

**RE**

Density d15/4 .....0.720 - 0.740 Aromatic compounds.....<= 100 mg/Kg Total sulphur (S) .....<= 5 ppm  
 Colour .....<= 10 Hazen Boiling point .....100 - 140 °C

Code	Size	Packaging	Notes
P0370048	25l	Metal tank	

## Petroleum ether 100 - 140°C

CAS : 64742-49-0  
 EEC-N : 265-151-9

### Classification transport

ONU: 3295  
 Transport Hazard class: 3  
 Packing group II



**Danger**

2.6/2; H225-3.10/1; H304-3.2/2; H315-3.8/3; H336-4.1.C/2; H411  
 P210-P241-P304+P340-P403+P235-P405-P501a

### Petroleum ether 100 - 140°C > RE-Pure

**RE**

Description .....Clear colourless liquid Density at 15° C .....0.725 - 0.740 Boiling point max .....<=140 °C  
 Identification.....Positive Boiling point min. ....>=100 °C

Code	Size	Packaging	Notes
348913	1l	Glass bottle	
348912	2,5l	Glass bottle	
508230	5l	Plastic tank	
508232	25l	Metal tank	
348914	20kg	Metal tank	

## Petroleum ether 80 - 120°C

CAS : 64742-49-0

### Classification transport

ONU: 1268  
 Transport Hazard class: 3  
 Packing group II



**Danger**

2.6/2; H225-3.5/1B; H340-3.6/1B; H350-3.2/2; H315-4.1.C/2; H411-A26  
 P210-P241-P308+P313-P403+P235-P405-P501a

### Petroleum ether 80 - 120°C > RE-Pure

**RE**

Description .....Clear colourless liquid Density at 15° C .....>=0.723 Boiling point min. ....>=80 °C  
 Identification.....Positive Residue on evaporation .....<=100 ppm Boiling point max .....<=120 °C

Code	Size	Packaging	Notes
348901	1l	Glass bottle	
348905	2,5l	Glass bottle	

## Petroleum ether 80 - 100°C

CAS : 64742-49-0

### Classification transport

ONU: 1268  
 Transport Hazard class: 3  
 Packing group II



**Danger**

2.6/2; H225-3.5/1B; H340-3.6/1B; H350-4.1.C/2; H411-A26  
 P210-P241-P308+P313-P403+P235-P405-P501a

### Petroleum ether 80 - 100°C > RPE-For analysis

**RPE**

Description .....Clear colourless liquid CCl4 miscibility .....Complete Density at 15° C .....~ 0.709 Subst. reducing KMnO4 .....<=20 ppm (5m)  
 Colour .....<=10 APHA Anhyd.Ethyl alc.miscib.....Complete Water (K.F.).....<=0.01 % Total sulphur.....<=50 ppm  
 Identification.....Positive Benzene miscibility .....Complete Residue on evaporation .....<=10 ppm  
 Boiling point .....80 - 100 °C Diethyl ether miscib. ....Complete Acidity (acetic acid) .....<=5 ppm  
 Carb.sulf. miscibility .....Complete Ready carbonizable substances .....Conform Aromatics.....<=100 ppm

Code	Size	Packaging	Notes
427031	1l	Glass bottle	
427036	18kg	Metal tank	

# PET

## Petroleum ether 80 - 100°C > RE-Pure

**RE**

Description .....Clear colourless liquid Density at 15° C .....~ 0.708 Boiling point min. ....>=80 °C  
Identification.....Positive Residue on evaporation.....<=100 ppm Boiling point max .....<=100 °C

Code	Size	Packaging	Notes
323501	1l	Glass bottle	
323503	2,5l	Glass bottle	
323502	19kg	Metal tank	

## Petroleum ether 75 - 120°C

CAS : 64742-49-0

**Classification transport**  
ONU: 1268  
Transport Hazard class: 3  
Packing group II

**Danger**

2.6/2; H225-3.5/1B; H340-3.6/1B; H350-3.2/2; H315-4.1.C/2; H411-A26  
P210-P241-P308+P313-P403+P235-P405-P501a

## Petroleum ether 75 - 120°C > RPE-For analysis

**RPE**

Description .....Clear colourless liquid Boiling point min. ....>=75 °C Water (K.F.).....<=50 ppm Subst. reducing KMnO4 .....<=20 ppm (5m)  
Identification.....Positive Boiling point max.....<=120 °C Residue on evaporation .....<=10 ppm Total sulphur.....<=50 ppm  
Diethyl ether miscib. ....Complete Ready carbonizable substances .....Conform Acidity (acetic acid) .....<=0.7 ppm  
Misc.with Abs.Ethanol .....Complete Density at 15° C.....>=0.715 Alkalinity (NH3) .....<=0.2 ppm

Code	Size	Packaging	Notes
458001	1l	Glass bottle	
458003	2,5l	Glass bottle	

## Petroleum ether 65 - 95°C

CAS : 64742-49-0

**Classification transport**  
ONU: 1268  
Transport Hazard class: 3  
Packing group II

**Danger**

2.6/2; H225-3.5/1B; H340-3.6/1B; H350-3.2/2; H315-4.1.C/2; H411-A26  
P210-P241-P308+P313-P403+P235-P405-P501a

## Petroleum ether 65 - 95°C > RPE-For analysis

**RPE**

Description .....Clear colourless liquid Identification.....Positive Density at 20°C.....0.660 - 0.690

Code	Size	Packaging	Notes
427061	1l	Glass bottle	
427064	18kg	Metal tank	

## Petroleum ether 60 - 80°C

CAS : 64742-49-0

**Classification transport**  
ONU: 1268  
Transport Hazard class: 3  
Packing group II

**Danger**

2.6/2; H225-3.5/1B; H340-3.6/1B; H350-3.7/2; H361f-3.9/2; H373-3.2/2; H315-3.8/3; H336-4.1.C/2;  
H411-A26  
P210-P241-P304+P340-P403+P235-P405-P501a

## Petroleum ether 60 - 80°C > RPE-For analysis

**RPE**

Description .....Clear liquid Anhyd.Ethyl alc.miscib.....Complete Water (K.F.).....<=100 ppm Total sulphur.....<=50 ppm  
Colour.....<=10 APHA Diethyl ether miscib.....Complete Residue on evaporation .....<=10 ppm  
Identification.....Positive Ready carbonizable substances .....Conform Acidity (acetic acid) .....<=5 ppm  
Boiling point .....60 - 80 °C Density at 20° C.....0.660 - 0.690 Subst. reducing KMnO4 .....<=20 ppm (5m)

Code	Size	Packaging	Notes
427001	1l	Glass bottle	
427003	2,5l	Glass bottle	
427007	18kg	Metal tank	



## Petroleum ether 55 - 85°C

CAS : 64742-49-0

**Classification transport**  
 ONU: 1268  
 Transport Hazard class: 3  
 Packing group II



**Danger**  
 2.6/2; H225-3.5/1B; H340-3.6/1B; H350-3.7/2; H361F-3.9/2; H373-3.2/2; H315-3.8/3; H336-4.1.C/2;  
 H411-A26  
 P210-P241-P304+P340-P403+P235-P405-P501a

### Petroleum ether 55 - 85°C > RE-Pure

RE

Description .....Clear colourless liquid Density at 20°C.....0.660 - 0.690 Boiling point min.....>=55 °C  
 Identification.....Positive Residue on evaporation.....<=100 ppm Boiling point max.....<=85 °C

Code	Size	Packaging	Notes
323401	1l	Glass bottle	
323403	2,5l	Glass bottle	
323402	18kg	Metal tank	

## Petroleum ether 40 - 70°C

CAS : 64742-49-0

**Classification transport**  
 ONU: 1268  
 Transport Hazard class: 3  
 Packing group II



**Danger**  
 2.6/2; H225-3.10/1; H304-3.2/2; H315-3.8/3; H336-4.1.C/2; H411  
 P210-P241-P304+P340-P403+P235-P405-P501a

### Petroleum ether 40 - 70°C > RPE-For analysis

RPE

Description .....Clear liquid Residue on evaporation.....<=20 ppm Total sulphur.....<=50 ppm Fe.....<=0.1 ppm  
 Colour.....<=10 APHA Water (K.F.).....<=100 ppm Al.....<=0.5 ppm Mg.....<=0.1 ppm  
 Identification.....Positive Boiling point min.....>=40 °C Ba.....<=0.1 ppm Mn.....<=0.02 ppm  
 Alcohol miscibility.....Complete Boiling point max.....<=70 °C Ca.....<=0.5 ppm Ni.....<=0.02 ppm  
 Diethyl ether miscib.....Complete Acidity (acetic acid).....<=0.7 ppm Cd.....<=0.05 ppm Pb.....<=0.1 ppm  
 Fat oils.....Conform Alkalinity (NH3).....<=0.2 ppm Co.....<=0.02 ppm Sn.....<=0.1 ppm  
 Ready carbonizable substances.....Conform Benzene.....<=100 ppm Cr.....<=0.02 ppm Zn.....<=0.1 ppm  
 Density at 15° C.....0.645 - 0.670 Subst. reducing KMnO4.....<=20 ppm (5m) Cu.....<=0.02 ppm

Code	Size	Packaging	Notes
447821	1l	Glass bottle	
447824	5l	Aluminium can	
447822	19kg	Aluminium can	

### Petroleum ether 40 - 70°C > RE-Pure

RE

Description .....Clear liquid Density at 15° C.....0.645 - 0.670 Benzene.....<=200 ppm  
 Colour.....<= 10 APHA Residue on evaporation.....<=20 ppm Boiling point min.....>=40 °C  
 Identification.....Positive Water (K.F.).....<=100 ppm Boiling point max.....<=70 °C

Code	Size	Packaging	Notes
341024	1l	Glass bottle	
341022	19kg	Aluminium can	

## Petroleum ether 40 - 65°C

CAS : 64742-49-0

**Classification transport**  
 ONU: 1268  
 Transport Hazard class: 3  
 Packing group II



**Danger**  
 2.6/2; H225-3.10/1; H304-3.2/2; H315-3.8/3; H336-4.1.C/2; H411  
 P210-P241-P304+P340-P403+P235-P405-P501a

### Petroleum ether 40 - 65°C > RS-PESTIPUR- For pesticide analysis

RS

GC chromatogram.....Conform Water content (K.F.).....<= 100 mg/Kg GC-NPD.Individual peak (Ethylparathion).....<= 3 ng/l  
 Boiling point.....40 - 65 °C Non volatile residue.....<= 2 mg/Kg Retention time Atrazin to Coumaphos  
 Density d15/4.....0.645 - 0.660 GC-ECD.Individual peak (Lindane).....<= 3 ng/l  
 Colour.....<= 10 Hazen Retention time trichlorobenzene to mirex

Code	Size	Packaging	Notes
447851	1l	Glass bottle	
447852	2,5l	Glass bottle	

Product specifications are subject to changes.  
 Please visit our website for updates.



# PET

## Petroleum ether 40 - 65°C > RPE-For analysis

RPE

Description .....	Clear colourless liquid	Boiling point .....	40 - 65 °C	n-Hexane .....	<= 2 %
Colour .....	<= 10 APHA	Residue on evaporation .....	<= 10 ppm	Aromatic compounds .....	<= 100 ppm
Density at 15°C .....	0.645 - 0.660	Water (K.F.) .....	<= 100 ppm		
Refractive index at 20°C .....	1.366 - 1.376	Assay (CPG) .....	Conform		

Code	Size	Packaging	Notes
447811	1l	Glass bottle	
447812	2,5l	Glass bottle	
447813	5l	Plastic tank	
447814	10l	Metal tank	
447815	25l	Metal tank	
447816	200l	Metal drum	

## Petroleum ether 40 - 60°C

CAS : 64742-49-0

### Classification transport

ONU: 1268

Transport Hazard class: 3

Packing group II



**Danger**

2.6/2; H225-3.10/1; H304-3.2/2; H315-3.8/3; H336-4.1.C/2; H411  
P210-P241-P304+P340-P403+P235-P405-P501a

## Petroleum ether 40 - 60°C > RPE-For analysis

RPE

Description .....	Clear liquid	Ready carbonizable substances .....	Conform	Total sulphur .....	<=50 ppm	Fe .....	<=0.1 ppm
Colour .....	<=10 APHA	Density at 15° C .....	0.647 - 0.654	Al .....	<=0.5 ppm	Mg .....	<=0.1 ppm
Identification .....	Positive	Residue on evaporation .....	<=10 ppm	Ba .....	<=0.1 ppm	Mn .....	<=0.02 ppm
Alcohol miscibility .....	Complete	Water (K.F.) .....	<=100 ppm	Ca .....	<=0.5 ppm	Ni .....	<=0.02 ppm
Diethyl ether miscib. ....	Complete	Acidity (acetic acid) .....	<=0.7 ppm	Cd .....	<=0.05 ppm	Pb .....	<=0.1 ppm
Boiling point min. ....	>=40 °C	Alcalinity (NH3) .....	<=0.2 ppm	Co .....	<=0.02 ppm	Sn .....	<=0.1 ppm
Boiling point max. ....	<=60 °C	Benzene .....	<=100 ppm	Cr .....	<=0.02 ppm	Zn .....	<=0.1 ppm
Fat oils .....	Conform	Subst. reducing KMnO4 .....	<=20 ppm (5m)	Cu .....	<=0.02 ppm	Assay (CPG) .....	Conform

Code	Size	Packaging	Notes
447833	1l	Glass bottle	
447831	2,5l	Glass bottle	
447832	5l	Aluminium can	
447836	5l	Plastic tank	
447834	19kg	Aluminium can	

## Petroleum ether 40 - 60°C > RE-Pure

RE

Description .....	Clear liquid	Density at 20°C .....	0.643 - 0.673	Water (K.F.) .....	<= 200 ppm
Colour .....	<= 10 APHA	Refractive index at 20°C .....	1.368 - 1.378	Aromatics .....	<=100 ppm
Identification .....	Positive	Residue on evaporation .....	<= 20 ppm	Distillation intervalle .....	40 - 60 °C

Code	Size	Packaging	Notes
528283	5l	Plastic tank	

## Petroleum ether 35 - 60°C

CAS : 64742-49-0

### Classification transport

ONU: 1268

Transport Hazard class: 3

Packing group II



**Danger**

2.6/2; H225-3.10/1; H304-3.2/2; H315-3.8/3; H336-4.1.C/2; H411  
P210-P241-P304+P340-P403+P235-P405-P501a

## Petroleum ether 35 - 60°C >

### RS-ATRASOL-For trace analysis, Suitable for hydrocarbon index determination

RS

Appearance .....	Clear colourless liquid	Colour .....	<= 5 Hazen	Retention time trichlorobenzene to mirex .....	
Refractive index at 20°C .....	1.355 - 1.359	Hydrocarbon oil index .....	<= 0.05 mg/l	GC-FID. Individual peak (C10-C40) .....	<= 5 °g/l
Water content (K.F.) .....	<= 50 mg/Kg	<b>Retention time n-decane - n-tetracontane</b>			
Non volatile residue .....	<= 2 mg/Kg	GC-ECD. Individual peak (Lindane) .....	<= 3 ng/l		

Code	Size	Packaging	Notes
P0883221	2,5l	Glass bottle	

Contains n-Pentane, iso-Pentane, 1-pentene, 2,2-Dimethylbutane and cyclopentane

### Petroleum ether 35 - 60°C > RS-PESTIPUR- For pesticide analysis

Clear, colourless liq. appearance	Conform	Water content (K.F.)	≤ 100 mg/Kg	Total sulphur (S)	≤ 10 ppm
Identification	Conform	GC-ECD. Individual peak (Lindane)	≤ 3 ng/l	GC-NPD. Individual peak (Ethylparathion)	≤ 3 ng/l
Colour	≤ 10 APHA	<b>Retention time trichlorobenzene to mirex</b>		<b>Retention time Atrazin to Coumaphos</b>	
Refractive index at 20°C	1.355 - 1.359	Non volatile residue	≤ 2 mg/Kg		

Code	Size	Packaging	Notes
447862	1l	Glass bottle	
447861	2,5l	Glass bottle	

Contains n-Pentane, iso-Pentane, 1-pentene, 2,2-Dimethylbutane and cyclopentane

### Petroleum ether 35 - 60°C > RPE-For analysis

Description	Clear liquid	Density at 20°C	0.643 - 0.673	Water (K.F.)	≤ 150 ppm	Bromine rating	≤ 1
Colour	≤ 10 APHA	Refractive index at 20°C	1.368 - 1.378	Aromatics	≤ 20 ppm	Distillation interval	35 - 60 °C
Identification	Positive	Residue on evaporation	≤ 10 ppm	Total sulphur	≤ 10 ppm	Assay (CPG)	Conform

Code	Size	Packaging	Notes
528070	1l	Glass bottle	
528071	2,5l	Glass bottle	
528280	5l	Plastic tank	
528281	25l	Metal tank	
528282	200l	Metal drum	

## Petroleum ether 30 - 50°C

CAS : 101316-46-5

### Classification transport

ONU: 1268  
 Transport Hazard class: 3  
 Packing group II



**Danger**

2.6/2; H225-3.10/1; H304-3.8/3; H336-4.1.C/2; H411  
 P210-P241-P304+P340-P403+P235-P405-P501a

### Petroleum ether 30 - 50°C > RPE-For analysis

Description	Clear liquid	Residue on evaporation	≤ 10 ppm	Subst. reducing KMnO4	≤ 20 ppm (5m)	Cu	≤ 0.02 ppm
Colour	≤ 10 APHA	Water (K.F.)	≤ 100 ppm	Total sulphur	≤ 50 ppm	Fe	≤ 0.1 ppm
Identification	Positive	Boiling point min.	≥ 30 °C	Al	≤ 0.5 ppm	Mg	≤ 0.1 ppm
Alcohol miscibility	Complete	Boiling point max.	≤ 50 °C	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
Fat oils	Conform	Alcalinity (NH3)	≤ 0.2 ppm	Cd	≤ 0.05 ppm	Pb	≤ 0.1 ppm
Ready carbonizable substances	Conform	Benzene	≤ 100 ppm	Co	≤ 0.02 ppm	Sn	≤ 0.1 ppm
Density at 15° C	≥ 0.633	Unsaturated hydrocarbon	≤ 0.4 %	Cr	≤ 0.02 ppm	Zn	≤ 0.1 ppm

Code	Size	Packaging	Notes
447801	1l	Glass bottle	
447804	5l	Aluminium can	
447802	18kg	Aluminium can	

Contains n-Pentane, iso-Pentane, 1-pentene, 2,2-Dimethylbutane and cyclopentane

### Petroleum ether 30 - 50°C > RE-Pure

Description	Clear colourless liquid	Density at 15° C	≥ 0.633	Boiling point min.	≥ 30 °C
Identification	Positive	Residue on evaporation	≤ 100 ppm	Boiling point max.	≤ 50 °C

Code	Size	Packaging	Notes
341034	1l	Glass bottle	
341032	18kg	Aluminium can	

## Petroleum ether 30 - 40°C

CAS : 101316-46-5

### Classification transport

ONU: 1268  
 Transport Hazard class: 3  
 Packing group II



**Danger**

2.6/2; H225-3.10/1; H304-3.8/3; H336-4.1.C/2; H411  
 P210-P241-P304+P340-P403+P235-P405-P501a

### Petroleum ether 30 - 40°C > RPE-For analysis

Description	Clear liquid	Ready carbonizable substances	Conform	Subst. reducing KMnO4	≤ 20 ppm (5m)	Cu	≤ 0.02 ppm
Colour	≤ 10 APHA	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
Boiling 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	1l	Glass bottle	
447795	5l	Aluminium can	
447792	18kg	Aluminium can	

Contains n-Pentane, iso-Pentane, 1-pentene, 2,2-Dimethylbutane and cyclopentane

Bromophenol blue.....	79	Methyl orange.....	331	Neutral red.....	346
Bromothymol blue.....	80	Methyl orange solution 0.1%.....	332	Phenol red.....	386
Thymol blue.....	548	Phenolphthalein.....	386	Phenol red solution 0.2% in ethanol.....	386
Indigo carmine dried.....	262	Phenolphthalein solution 1% in ethanol.....	387	Quinaldine red.....	438
Methyl yellow.....	336	Bromocresol purple.....	78	Chlorophenol red solution 0.4% in ethanol.....	126
Eosin B.....	182	Bromocresol purple solution 0.4% in ethanol.....	78	Thymolphthalein.....	549
Eosin Y.....	182	m-Cresol purple.....	144	Thymolphthalein solution 0.1% hydroalcoholic.....	549
Erythrosin extra B.....	185	Congo red.....	135	Brilliant green.....	76
Hematoxylin.....	226	o-Cresol red.....	144	Bromocresol green.....	77
Indicator for iodometry.....	260	o-Cresol Red solution 0.2% in ethanol.....	144	Bromocresol green 0.04% hydroalcoholic solution.....	77
Indicator for ammoniacal nitrogen solution.....	259	Methyl red.....	333	Methyl green.....	329
Clayton's yellow.....	133	Methyl red solution 0.2% in ethanol.....	333	Crystal violet.....	145
p-Nitrophenol.....	359	Methyl red solution 0.1% in ethanol.....	334	Crystal violet solution 0.5% in anhydrous acetic acid.....	

## o-Phenantroline monohydrate

Synonym : 1,10-Phenanthroline monohydrate

C<sub>12</sub>H<sub>8</sub>N<sub>2</sub>.H<sub>2</sub>O  
Molecular Weight 198,21  
CAS : 5144-89-8  
EEC-N : 200-629-2

## Classification transport

ONU: 3143  
Transport Hazard class: 6.1  
Packing group III



## Danger

3.1.O/3; H301  
P264-P270-P301+P310-P330-P405-P501a

## o-Phenantroline monohydrate &gt; RPE-For analysis-ACS

RPE

Description.....White - pink powder      Suitable as indicator.....Conform  
Identification.....Positive      Iron sensitivity.....Conform

Code	Size	Packaging	Notes
450038	5g	Glass bottle	

Redox indicator

## Phenanthrene

C<sub>6</sub>H<sub>4</sub>CH:CHC<sub>6</sub>H<sub>4</sub>  
Molecular Weight 178,23  
CAS : 85-01-8  
EEC-N : 201-581-5



## Warning

3.1.O/4; H302-3.2/2; H315  
P280-P330-P332+P313-P362-P301+P312-P501a

## Phenanthrene &gt; RPE-For analysis

RPE

Description.....White crystals      Melting point.....99.0 - 101.0 ° C      Residue on ignition.....<=500 ppm  
Identification.....Positive      Assay (spectrophotom.).....99.5 - 100.0 %

Code	Size	Packaging	Notes
449984	100g	Glass bottle	

## o-Phenantroline-Iron (II) sulphate solution in sulphuric acid

C<sub>36</sub>H<sub>24</sub>FeN<sub>6</sub>O<sub>4</sub>S  
CAS : 14634-91-4

## Classification transport

ONU: 1760  
Transport Hazard class: 8  
Packing group III



## Warning

3.2/2; H315-3.3/2; H319  
P280-P264-P305+P351+P338-P332+P313-P337+P313-P362

## o-Phenantroline-Iron (II) sulphate solution in sulphuric acid &gt; RPE-For analysis

RPE

Description.....Red clear liquid      Identification.....Positive

Code	Size	Packaging	Notes
E450043	100ml	Glass bottle	

## Phenilhydrazine hydrochloride

C<sub>6</sub>H<sub>5</sub>NHNH<sub>2</sub>·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**

3.1.O/3; H301-3.1.D/3; H311-3.1.I/3; H331-3.6/1B; H350-3.9/1; H372-3.5/2; H341-4.1.A/1; H400-3.2/2;  
H315-3.3/2; H319-3.4.S/1; H317-A26  
P260-P261-P304+P340-P305+P351+P338-P405-P501a

## Phenilhydrazine hydrochloride &gt; RPE-For analysis

**RPE**

Description .....White powder Sulphated ash.....<= 0.05 %  
Identification.....Positive Assay (acidimetric).....>= 99.0 %

Code	Size	Packaging	Notes
450843	50g	Plastic bottle	

## Phenol

Synonym : Hydroxybenzene

C<sub>6</sub>H<sub>5</sub>OH  
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**

3.1.O/3; H301-3.1.D/3; H311-3.1.I/3; H331-3.2/1B; H314-3.5/2; H341-3.9/2; H373  
P260-P261-P304+P340-P305+P351+P338-P405-P501a

## Phenol &gt; RPE-For analysis-ACS

**RPE**

Description .....Crystalline mass Freezing point .....>= 40.5 °C (s.s.) Assay (iodometric) .....>= 99.0 %  
Identification.....Positive Water (K.F.).....<= 0.5 %  
Appearance of solution.....Conform ACS Residue on evaporation.....<= 0.05 %

Code	Size	Packaging	Notes
451285	250g	Glass bottle	
451287	1kg	Glass bottle	

## Phenol &gt; RPE-Crystals-For analysis

**RPE**

Description .....Colourless or faintly pink or faintly yellowish Chloride .....<= 5 ppm Mg .....<= 0.1 ppm  
Identification.....Positive Ca .....<= 0.5 ppm Mn .....<= 0.02 ppm  
Melting point .....>= 40.5 °C Cd .....<= 0.05 ppm Ni .....<= 0.1 ppm  
Water (K.F.).....<= 0.2 % Co .....<= 0.02 ppm Zn .....<= 0.5 ppm  
Residue on evaporation.....<= 100 ppm Cr .....<= 0.05 ppm Assay (GLC).....>= 99.5 %

Code	Size	Packaging	Notes
451293	500g	Glass bottle	
451295	25g	Bag	

## Phenol &gt; ERBAPharm-According to pharmacopoeia: Ph.Eur.-USP-FU-Ph.Franc.-BP-DAB

**ERBAPharm**

Description .....Crystalline mass Appearance of solution.....Conform Ph.Eur. Water (K.F.).....<=0.5 %  
Identification.....Positive Reaction, solution app.....Conform USP-NF Not volatile residue.....<=0.05 %  
Acidity.....Conform Ph.Eur. Freezing point .....>= 39.5 °C Assay (iodometric) .....99.0 - 100.5 %

Code	Size	Packaging	Notes
343407	1kg	Glass bottle	

## Phenol liquified 85%

C<sub>6</sub>H<sub>5</sub>OH  
Molecular Weight 94,11  
CAS : 108-95-2

**Classification transport**  
ONU: 2821  
Transport Hazard class: 6.1  
Packing group II

**Danger**

3.1.O/3; H301-3.1.D/3; H311-3.1.I/3; H331-3.2/1B; H314-3.5/2; H341-3.9/2; H373  
P210-P260-P304+P340-P305+P351+P338-P405-P501a

## Phenol liquified 85% &gt; RE-Pure

**RE**

Description .....Clear liquid Reaction .....Conform Assay .....82.0 - 86.5 %  
Identification.....Positive Not volatile residue.....<=0.05 %

Code	Size	Packaging	Notes
343411	1l	Glass bottle	
343414	5l	Metal tank	
343412	27kg	Aluminium can	

# PHE

## Phenol red

Synonym : Phenolsulfonphthalein

C<sub>19</sub>H<sub>14</sub>O<sub>5</sub>S  
Molecular Weight 354,38  
CAS : 143-74-8  
EEC-N : 205-609-7



**Warning**  
3.2/2; H315-3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

### Phenol red > RPE-For analysis-ACS

RPE

Description.....Red crystalline powder      Appearance of solution.....Conform ACS      pH range .....6.8 - 8.2  
Identification.....Positive      Colour change .....yellow red

Code	Size	Packaging	Notes
476838	5g	Glass bottle	

Clark indicator series. Dye for microscopy.

## Phenol red solution 0.2% in ethanol

### Classification transport

ONU: 1170  
Transport Hazard class: 3  
Packing group III



**Warning**  
2.6/3; H226  
P210-P241-P243-P303+P361+P353-P403+P235-P501a

### Phenol red solution 0.2% in ethanol > RPE-For analysis

RPE

Description.....Red clear liquid      Sensitivity( 6.8-8.4).....Conform  
Identification.....Positive      Colour change .....yellow red

Code	Size	Packaging	Notes
E476845	250ml	Glass bottle	

Indicator series Clark indicator acid-base (pH 6.4 to 8.2).

## Phenol solution

P

### Phenol solution > RS-For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611063601	100ml	Bottle	Ref Ph.Eur 1063601 / Colour change: pH 6.8 (yellow) to pH 8.4 (reddish-violet)
611063603	500ml	Bottle	Phenol red solution R2 Ref Ph.Eur 1063603

## Phenolphthalein

C<sub>20</sub>H<sub>14</sub>O<sub>4</sub>  
Molecular Weight 318,33  
CAS : 77-09-8  
EEC-N : 201-004-7



**Danger**  
3.6/1B; H350-3.5/2; H341-3.7/2; H361f-A26  
P281-P201-P202-P308+P313-P405-P501a

### Phenolphthalein > RPE-For analysis-ACS-Reag.Ph.Eur.-Reag.USP

RPE

Description.....White powder      Appear. of alcohol sol.....Conform      pH range .....8.0 - 10.0  
Identification.....Positive      Colour change .....Colourless-red

Code	Size	Packaging	Notes
451154	100g	Plastic bottle	
451156	500g	Plastic bottle	

## Phenolphthalein solution 1% in ethanol

## Classification transport

ONU: 1170  
 Transport Hazard class: 3  
 Packing group III



## Danger

3.6/1A; H350-3.5/2; H341-2.6/3; H226-A26  
 P210-P241-P308+P313-P403+P235-P405-P501a

► Phenolphthalein solution 1% in ethanol >  
 RS-For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611063703	100ml	Bottle	Phenolphthalein solution R1 Ref Ph.Eur 1063703

► Phenolphthalein solution 1% in ethanol > RS-For analysis according to USP

RS

Code	Size	Packaging	Notes
617000131	100ml	Bottle	Phenolphthalein TS

► Phenolphthalein solution 1% in ethanol > RPE-For analysis

RPE

Description .....Clear colourless liquid    Sensit.(pH 8.3-10.0).....Conform  
 Identification.....Positive    Colour change.....colourless-purple

Code	Size	Packaging	Notes
451191	250ml	Glass bottle	
451192	1l	Glass bottle	

Acid-base indicator (pH 8.2 to 10.0).

## Phenolphthalein solution 0.1%

## Classification transport

ONU: 1170  
 Transport Hazard class: 3  
 Packing group III



## Danger

3.6/1B; H350-2.6/3; H226-A26  
 P210-P241-P308+P313-P403+P235-P405-P501a

► Phenolphthalein solution 0.1% > RS-For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611063702	100ml	Bottle	Ref Ph.Eur 1063702

## Phenylacetic acid

Synonym : Benzeneacetic acid

$C_6H_5CH_2COOH$   
 Molecular Weight 136,15  
 CAS : 103-82-2  
 EEC-N : 203-148-6



## Warning

3.2/2; H315-3.3/2; H319-3.8/3; H335  
 P261-P271-P304+P340-P305+P351+P338-P405-P501a

► Phenylacetic acid > RPE-For analysis

RPE

Description .....White crystalline powder    Water-insoluble matter.....<=200 ppm    Fe.....<=20 ppm  
 Identification.....Positive    Heavy metals (Pb).....<=10 ppm    Assay (acidimetric).....>=99 %  
 Melting point.....75.0 - 77.0 °C    Residue on ignition.....<=500 ppm  
 Total chlorine.....<=50 ppm    Total sulphur.....<=20 ppm

Code	Size	Packaging	Notes
405597	1kg	Plastic bottle	

# PHE

## ▶ Phenylacetic acid > RE-Pure

**RE**

Description.....White crystals      Melting point.....75.0 - 77.0 °C  
Identification.....Positive      Assay (acidimetric).....>=97 %

Code	Size	Packaging	Notes
303507	1kg	Plastic bottle	

## L-Phenylalanine

**Synonym : (S)-2-Amino-3-phenylpropionic acid**

C<sub>6</sub>H<sub>5</sub>CH<sub>2</sub>CH(NH<sub>2</sub>)COOH  
Molecular Weight 165,19  
CAS : 63-91-2  
EEC-N : 200-568-1

## ▶ L-Phenylalanine > RPE-For analysis

**RPE**

Description.....White crystalline powder      Pb.....<= 10 ppm      Heavy metals (Pb).....<= 20 ppm  
Identification.....Positive      pH solution 1%.....5.4 - 6.0      Residue on ignition.....<= 0.1 %  
Specific optical rotation(C=2 in Water).....-33.0 - -35.2 ° s.s.      Loss on drying.....<= 0.3 %      Assay (non-aqueous medium).....98.5 - 102.0 % (s.s.)

Code	Size	Packaging	Notes
450328	5g	Glass bottle	

## 2-Phenylethanol

**Synonym : Benzyl carbinol**

C<sub>6</sub>H<sub>5</sub>CH<sub>2</sub>CH<sub>2</sub>OH  
Molecular Weight 122,17  
CAS : 60-12-8  
EEC-N : 200-456-2

**Danger**

3.1.D/3; H311-3.3/2; H319  
P280-P305+P351+P338-P312-P337+P313-P405-P501a

## ▶ 2-Phenylethanol > ERBAPharm-According to pharmacopoeia: USP

**ERBAPharm**

Description.....Clear colourless liquid      Aldehyde.....Conform USP-NF      Sulphated ash.....<=50 ppm  
Identification.....Positive      Density at 25° C.....1.017 - 1.020      Residue solvents.....Conform USP-NF  
Chlorinated compounds.....Conform USP-NF      Refractive index at 20°C.....1.531 - 1.534      Origin (BSE/TSE).....Vegetable

Code	Size	Packaging	Notes
529021	2,4l	Glass bottle	

## ▶ 2-Phenylethanol > RE-Pure

**RE**

Description.....Clear, colorless liquid      Chlorinated compounds.....Conform      Refractive index at 20° C.....1.531 - 1.534  
Identification.....Positive      Density at 20° C.....1.017 - 1.020      Sulphated ash.....<= 50 ppm

Code	Size	Packaging	Notes
308731	1l	Glass bottle	

## Phenylfluorone

**Synonym : 2,6,7-trihydroxy-9-phenylisoxanthen-3-one**

C<sub>19</sub>H<sub>12</sub>O<sub>5</sub>  
Molecular Weight 320,3  
CAS : 975-17-7  
EEC-N : 213-550-3

**Warning**

3.2/2; H315-3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

## ▶ Phenylfluorone > RPE-For analysis

**RPE**

Description.....Brown powder      Identification.....Positive      Germanium sensitivity.....<=0.5 µg/ml

Code	Size	Packaging	Notes
450777	1g	Glass bottle	

**Reagent for Ge determination**



## Phenylhydrazine hydrochloride solution

CAS : 59-88-1

## Classification transport

ONU: 3264  
 Transport Hazard class: 8  
 Packing group III



## Danger

3.6/1B; H350-EUH208-A26  
 P281-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	100ml	Bottle	Ref Ph.Eur 1064501

## Phloroglucinol

1,3,5-(OH)<sub>3</sub>C<sub>6</sub>H<sub>3</sub>  
 Molecular Weight 126,11  
 CAS : 108-73-6  
 EEC-N : 203-611-2



## Warning

3.2/2; H315-3.3/2; H319-3.8/3; H335  
 P261-P271-P304+P340-P305+P351+P338-P405-P501a

► Phloroglucinol > RE-Pure

RE

Description .....White powder or flakes    Alcohol solubility.....Conform    Water (K.F.).....<= 2 %  
 Identification.....Positive    Melting point .....210 - 215 ° C    Assay (HPLC).....>=99 %

Code	Size	Packaging	Notes
452031	10g	Glass bottle	
452033	50g	Glass bottle	

## Phloxin B

C<sub>20</sub>H<sub>2</sub>Br<sub>4</sub>Cl<sub>4</sub>Na<sub>2</sub>O<sub>5</sub>  
 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	10g	Glass bottle	

*Dye for botanical, cytology and histology.*

## Phosphate standard solution

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

RS

Code	Size	Packaging	Notes
615002200	100ml	Bottle	A 5 ppm solution : to dilute according to Ref Ph.Eur 5002200
615004200	1l	Bottle	A 200 ppm solution Ref Ph.Eur 5004200

► Phosphate standard solution > RS-Standard for ionic chromatography

RS

Code	Size	Packaging	Notes
503340	50ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503341	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503342	250ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503343	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Water

# PHO

## Phosphate buffer 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	1l	Bottle	Ref Ph.Eur 4007900

## Phosphate buffer 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	100ml	Bottle	Ref Ph.Eur 4000500
614000500	1l	Bottle	Ref Ph.Eur 4000500

## Phosphate buffer 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	1l	Bottle	Ref Ph.Eur 4002000

## Phosphate buffer pH 6.8

▶ Phosphate buffer pH 6.8 > RS-For analysis

RS

pH .....6.75 - 6.85 pH unit    Temperature.....19 - 21 °C

Code	Size	Packaging	Notes
524952	10l	Plastic tank	

Composition : Potassium dihydrogen phosphate 6,8g/l, sodium hydroxide 0,9g/l, deionized water 992,3 g/l. Traceable to NIST.

P

▶ Phosphate buffer pH 6.8 > RS-For analysis according to Ph. Eur. Chap. 4.1.3

RS

Code	Size	Packaging	Notes
614003400	1l	Bottle	Ref Ph.Eur 4003400

## Phosphate buffer 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	1l	Bottle	Ref Ph.Eur 4002400

## Phosphate buffer pH 7.4

▶ Phosphate buffer pH 7.4 > RS-For analysis

RS

Temperature of measurement .....19 - 21 °C    pH .....7.35 - 7.45 pH unit

Code	Size	Packaging	Notes
PS0740/95	5l	Kubidos	

Composition : Potassium dihydrogen phosphate 0,6g/l, disodium hydrogen phosphate 6,4g/l, sodium chloride 5,58 g/l, deionized water QSP 1L

## ▶ Phosphate buffer pH 7.4 &gt; RS-For analysis according to Ph. Eur. Chap. 4.1.3

RS

Code	Size	Packaging	Notes
614004800	1l	Bottle	Ref Ph.Eur 4004800

## ▶ Phosphate buffer pH 7.4 &gt; RPE-For analysis

RPE

pH .....7.35 - 7.45 pH unit    Temperature of measurement .....19 - 21 °C

Code	Size	Packaging	Notes
524965	5l	Kubidos	

Composition : Potassium dihydrogen phosphate 1,9g/l, disodium hydrogen phosphate 19,3g/l, deionized water 992,5 g/l. Traceable to NIST.

## ▶ Phosphate buffer pH 9.0

## ▶ Phosphate buffer pH 9.0 &gt; RS-For analysis according to Ph. Eur. Chap. 4.1.3

RS

Code	Size	Packaging	Notes
614008300	1l	Bottle	Ref Ph.Eur 4008300

## ▶ Phosphomolybdic acid

Synonym : Molybdophosphoric acid

2H<sub>3</sub>PO<sub>4</sub>.20MoO<sub>3</sub>.48H<sub>2</sub>O  
Molecular Weight 3939,5  
CAS : 51429-74-4

## Classification transport

ONU: 3260  
Transport Hazard class: 8  
Packing group III



## Warning

3.2/2; H315-3.3/2; H319  
P280-P264-P305+P351+P338-P332+P313-P337+P313-P362

## ▶ Phosphomolybdic acid &gt; RPE-For analysis-ACS-Reag.Ph.Eur.-Reag.USP

RPE

Description .....Yellow crystals    Chloride .....<= 200 ppm    Sulphate .....<= 250 ppm  
Identification .....Positive    Water-insoluble matter .....<= 100 ppm    Ca .....<= 200 ppm  
Ammonium .....<= 100 ppm    Heavy metals (Pb) .....<= 50 ppm    Fe .....<= 50 ppm

Code	Size	Packaging	Notes
405913	50g	Glass bottle	
405915	250g	Glass bottle	

## ▶ Phosphomolybdotungstic reagent

## Classification transport

ONU: 3264  
Transport Hazard class: 8  
Packing group III



## Warning

3.1.0/4; H302-3.2/2; H315-3.3/2; H319  
P280-P305+P351+P338-P330-P332+P313-P337+P313-P501a

## ▶ Phosphomolybdotungstic reagent &gt; RS-For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611065000	100ml	Bottle	Ref Ph.Eur 1065000

Storage: at 2 °C to 8 °C.

## ▶ Phosphonic acid

H<sub>3</sub>PO<sub>3</sub>  
Molecular Weight 82  
CAS : 13598-36-2  
EEC-N : 237-066-7

## Classification transport

ONU: 2834  
Transport Hazard class: 8  
Packing group III



## Danger

3.2/1A; H314-3.1.0/4; H302  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

## ▶ Phosphonic acid &gt; RPE-For analysis

RPE

Description .....White crystals    Phosphoric acid .....<= 1 %    Fe .....<= 5 ppm  
Identification .....Positive    Heavy metals (Pb) .....<= 20 ppm    Assay (acidimetric) .....>= 98.5 %  
Chloride .....<= 50 ppm    Sulphate .....<= 10 ppm

Code	Size	Packaging	Notes
406056	500g	Glass bottle	
406053	20kg	Fibre drum	

# PHO

Phosphoric acid ▶ Orthophosphoric acid

## Phosphorus standard solution

### Phosphorus standard solution > RS-Standard for ICP-MS

RS

Code	Size	Packaging	Notes
505761	50ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
505762	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
505765	100ml	Plastic bottle	conc. 100 ppm Matrix : Water

### Phosphorus standard solution > RS-Standard for ICP

RS

Code	Size	Packaging	Notes
503791	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503795	100ml	Plastic bottle	conc. 10.000 ppm Matrix : Water
503793	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503797	500ml	Plastic bottle	conc. 10.000 ppm Matrix : Water

## Phosphorus pentoxide

Synonyms : Phosphoric anhydride  
Phosphorus(V) oxide

P<sub>2</sub>O<sub>5</sub>  
Molecular Weight 14  
CAS : 1314-56-3  
EEC-N : 215-236-1

#### Classification transport

ONU: 1807  
Transport Hazard class: 8  
Packing group II



#### Danger

3.2/1A; H314  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

### Phosphorus pentoxide > RPE-For analysis-ACS-Reag.Ph.Eur.-Reag.USP

RPE

Description .....White powder Reducing KMnO<sub>4</sub> (P2O<sub>3</sub>) .....<=200 ppm(10m) Assay (acidimetric) .....>=98.0 %  
Identification.....Positive Ammonium .....<=100 ppm  
Water-insoluble matter.....<=200 ppm Heavy metals (Pb).....<=100 ppm

Code	Size	Packaging	Notes
421808	100g	Glass bottle	
421802	250g	Glass bottle	
421801	25kg	Drum	

### Phosphorus pentoxide > RE-Pure

RE

Description .....White powder Heavy metals (Pb) .....<=500 ppm  
Identification.....Positive Assay (acidimetric) .....>=98 %

Code	Size	Packaging	Notes
317753	250g	Glass bottle	

## Phosphosulfuric acid

#### Classification transport

ONU: 3264  
Transport Hazard class: 8  
Packing group II



#### Danger

3.2/1A; H314  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

### Phosphosulfuric acid > RS-For nitrogen detection according to Kjeldahl

RS

Description .....Clear colourless liquid Ammonium .....<=1 ppm  
Identification.....Positive Nitrate .....<=0.2 ppm

Code	Size	Packaging	Notes
E406101	1l	Glass bottle	
E406103	2,5l	Glass bottle	

## Phosphotungstic acid

Synonym : Tungstophosphoric acid

H<sub>3</sub>PO<sub>4</sub>.12WO<sub>3</sub>.nH<sub>2</sub>O  
CAS : 12501-23-4**Classification transport**  
ONU: 3260  
Transport Hazard class: 8  
Packing group III**Danger**3.2/1B; H314  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

## Phosphotungstic acid &gt; RPE-For analysis

RPE

Description .....White powder Ammonium .....<= 50 ppm Na .....<= 100 ppm  
 Identification.....Positive Residue on calcination .....<= 17 % Assay .....>= 82 %  
 Chloride .....<= 20 ppm Heavy metals (Pb) .....<= 40 ppm  
 Sulphate .....<= 50 ppm Fe .....<= 30 ppm

Code	Size	Packaging	Notes
406154	100g	Glass bottle	

## Phosphotungstic acid solution

## Phosphotungstic acid solution &gt; RS-For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611065200	100ml	Bottle	Ref Ph.Eur 1065200

## o-Phthalaldehyde

C<sub>6</sub>H<sub>4</sub>(CHO)<sub>2</sub>  
Molecular Weight 134,13  
CAS : 643-79-8  
EEC-N : 211-402-2**Danger**3.1.0/3; H301  
P264-P270-P301+P310-P330-P405-P501a

## o-Phthalaldehyde &gt; RPE-For analysis

RPE

Description .....Yellow-orange crystals Melting point .....54 - 57 ° C Acidity (Phthalic acid) .....<= 0.3 %  
 Identification.....Positive Water (K.F.) .....<= 0.5 % Assay (GLC) .....>= 98.0 %

Code	Size	Packaging	Notes
452751	10g	Glass bottle	

## Phthalic acid

1,2-(COOH)<sub>2</sub>C<sub>6</sub>H<sub>4</sub>  
Molecular Weight 166,13  
CAS : 88-99-3  
EEC-N : 201-873-2**Warning**3.2/2; H315-3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

## Phthalic acid &gt; RPE-For analysis-Reag. Ph. Eur.

RPE

Description .....White crystalline powder Melting point .....~ 210 ° C  
 Identification.....Positive Assay (acidimetric) .....>= 98.5 %

Code	Size	Packaging	Notes
406205	250g	Plastic bottle	

## Phthalic anhydride

C<sub>6</sub>H<sub>4</sub>(CO)<sub>2</sub>O  
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**3.4.R/1; H334-3.3/1; H318-3.1.0/4; H302-3.8/3; H335-3.2/2; H315-3.4.S/1; H317  
P261-P304+P340-P305+P351+P338-P342+P311-P405-P501a

## Phthalic anhydride &gt; RE-Pure

RE

Description .....White flakes Melting point .....129 - 132 ° C  
 Identification.....Positive Assay .....>= 98.5 %

Code	Size	Packaging	Notes
318007	1kg	Plastic bottle	

# PIC

## Picric acid solution

$C_6H_3N_3O_7$   
Molecular Weight 229,10  
CAS : 88-89-1

### Picric acid solution > RS-For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611065801	100ml	Bottle	Ref Ph.Eur 1065801
611065802	100ml	Bottle	Picric acid solution R1 Ref Ph.Eur 1065802

### Picric acid solution > RPE-For analysis

RPE

Description.....Yellow clear liquid Density at 20° C.....1.00 - 1.02  
Identification.....Positive Assay.....1.1 - 1.3 %

Code	Size	Packaging	Notes
409302	500ml	Plastic bottle	
409305	2,5l	Glass bottle	

Saturated aqueous solution ~ 1.2%.

## Piperidine

Synonym : Hexahydropyridine

$NH(CH_2)_5CH_2$   
Molecular Weight 85,15  
CAS : 110-89-4  
EEC-N : 203-813-0

**Classification transport**  
ONU: 2401  
Transport Hazard class: 8  
Packaging group I



**Danger**

2.6/2; H225-3.1.D/3; H311-3.1.I/3; H331-3.2/1B; H314  
P210-P241-P304+P340-P305+P351+P338-P403+P235-P405-P501a

### Piperidine > RS-For peptide synthesis

RS

Refractive index at 20°C.....1.45 - 1.454 Colour.....<= 10 Hazen  
Water content (K.F.).....<= 3000 mg/Kg Assay (GC).....>= 99 %

Code	Size	Packaging	Notes
P0663518	500ml	Glass bottle	
P0663516	1l	Glass bottle	
P0663521	2,5l	Glass bottle	

### Piperidine > RPE-For analysis

RPE

Description.....Clear liquid Density at 20° C.....0.856 - 0.866 Water (K.F.).....<0.3 %  
Colour.....< 50 APHA Assay (GLC).....>=99.0 %

Code	Size	Packaging	Notes
469551	100ml	Glass bottle	
469552	500ml	Glass bottle	

### Piperidine > RE-Pure-For synthesis

RE

Refractive index at 20°C.....1.45 - 1.454 Colour.....<= 20 Hazen  
Water content (K.F.).....<= 5000 mg/Kg Assay (GC).....>= 99 %

Code	Size	Packaging	Notes
P0660216	1l	Glass bottle	
P0660221	2,5l	Glass bottle	
P0660248	25l	Metal tank	

## Platinum standard solution

### Platinum standard solution > RS-Standard for ICP-MS

RS

Code	Size	Packaging	Notes
505786	50ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
505787	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
505788	100ml	Plastic bottle	conc. 100 ppm Matrix : Hydrochloric acid

## ▶ Platinum standard solution &gt; RS-Standard for ICP

RS

Code	Size	Packaging	Notes
503831	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
503835	100ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrochloric acid
503833	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
503837	500ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrochloric acid

## ▶ Platinum 5% on charcoal

CAS : 7440-06-4

## ▶ Platinum 5% on charcoal &gt; RS-Catalyst

RS

Description.....Black powder Identification.....Positive


Code	Size	Packaging	Notes
435812	25g	Bag	

## ▶ Platinum(IV) oxide

Synonym : Adams' Catalyst

PtO<sub>2</sub>.nH<sub>2</sub>O  
 Molecular Weight 227,09  
 CAS : 52785-06-5  
 EEC-N : 215-223-0

**Classification transport**  
 ONU: 1479  
 Transport Hazard class: 5.1  
 Packing group II

 **Danger**  
 2.14/2; H272-3.4.S/1; H317  
 P210-P221-P261-P280-P363-P501a

## ▶ Platinum(IV) oxide &gt; RS-Catalyst

RS

Description.....Brown powder Identification.....Positive Assay .....&gt;=81.5 % Pt

Code	Size	Packaging	Notes
435861	1g	Glass bottle	

## ▶ Polyamide powder

(C<sub>6</sub>H<sub>11</sub>NO)<sub>n</sub>  
 CAS : 63428-83-1

## ▶ Polyamide powder &gt; RS-For thin layer chromatography


RS

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

Code	Size	Packaging	Notes
470021	250g	Plastic bottle	

## ▶ Polyvinylpyrrolidone

Molecular Weight 25000-30000  
 CAS : 9003-39-8

 **Danger**  
 3.1.O/2; H300  
 P264-P270-P301+P310-P330-P405-P501a

## ▶ Polyvinylpyrrolidone &gt; RPE-For analysis

RPE

Description.....White powder Identification.....Positive Loss on drying.....&lt;=5 %

Code	Size	Packaging	Notes
470071	500g	Plastic bottle	
470072	1,5kg	Plastic bottle	

# PON

## Ponceau red BS

Synonyms : Acid Red 66  
Biebrich scarlet sodium salt

C<sub>22</sub>H<sub>14</sub>N<sub>4</sub>Na<sub>2</sub>O<sub>7</sub>S<sub>2</sub>  
Molecular Weight 556,48  
CAS : 4196-99-0  
EEC-N : 224-084-5

**Classification transport**  
ONU: 3143  
Transport Hazard class: 6.1  
Packing group III

### Ponceau red BS > RS-For microscopy-C.I. 26905

RS

Description .....Red brick powder Identification.....Positive

Code	Size	Packaging	Notes
476941	10g	Glass bottle	

Dye for histology.

## Ponceau red S

C<sub>22</sub>H<sub>12</sub>N<sub>4</sub>Na<sub>4</sub>O<sub>13</sub>S<sub>4</sub>  
Molecular Weight 760,58  
CAS : 6226-79-5  
EEC-N : 228-319-2



**Warning**  
3.2/2; H315-3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

### Ponceau red S > RS-For microscopy-C.I. 27195

RS

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

Code	Size	Packaging	Notes
476981	5g	Glass bottle	

Dye for histochemistry.

## Potassium standard solution

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

RS

Code	Size	Packaging	Notes
615002401	100ml	Bottle	A 20 ppm solution : to dilute according to Ref Ph.Eur 5002401
615002402	100ml	Bottle	A 0.1 % solution Ref Ph.Eur 5002402
615002409	100ml	Bottle	A 100 ppm solution : to dilute according to Ref Ph.Eur 5002400
615005100	100ml	Bottle	A 600 ppm solution : to dilute according to Ref Ph.Eur 5005100

### Potassium standard solution > RS-Standard for ICP-MS

RS

Code	Size	Packaging	Notes
505681	50ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505682	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505685	100ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid

### Potassium standard solution > RS-Standard for ICP

RS

Code	Size	Packaging	Notes
503671	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503675	100ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
503673	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

### Potassium standard solution > RS-Standard for AAS

RS

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

Code	Size	Packaging	Notes
E497605	100ml	Glass bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
E497601	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid



## 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	Normex	Plastic ampoule	conc. 1.000 ppm Matrix : Nitric acid

## Potassium standard solution > RS-Standard for ionic chromatography

RS

Code	Size	Packaging	Notes
503270	50ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503271	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503272	250ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503273	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Water

## Potassium acetate

CH<sub>3</sub>COOK  
Molecular Weight 98,15  
CAS : 127-08-2  
EEC-N : 204-822-2

## Potassium acetate > RPE-For analysis

RPE

Description.....White granular powder Chloride .....<= 50 ppm Fe.....<= 20 ppm  
Identification.....Positive Sulphate .....<= 50 ppm Zn .....<= 20 ppm  
pH sol. 5% at 20°C.....7.5 - 8.5 Heavy metals (Pb).....<= 10 ppm Assay (non-aqueous medium) .....>= 99 %

Code	Size	Packaging	Notes
470147	1kg	Plastic bottle	
470143	25kg	Plastic bucket	

## Potassium acetate > ERBAPharm-According to pharmacopoeia: BP-Ph.Eur.

ERBAPharm

Description .....White crystalline powder Loss on drying .....<=3,0 % Fe.....<=20 ppm  
Identification.....Positive Chloride .....<=200 ppm Na.....<=0,5 %  
Appearance of solution .....Conform Ph.Eur. Heavy metals (Pb) .....<=4 ppm Assay (non-aqueous medium) .....99.0 - 101.0 % s.s.  
Reducing substances .....Conform Ph.Eur. Sulphate .....<=200 ppm Origin (BSE/TSE) .....Synthesis  
pH solution 5% .....7.5 - 9.0 Al.....<=1 ppm

Code	Size	Packaging	Notes
358907	1kg	Plastic bottle	
358903	25kg	Plastic bucket	

## Potassium bicarbonate

Synonym : Potassium hydrogen carbonate

KHCO<sub>3</sub>  
Molecular Weight 100,12  
CAS : 298-14-6  
EEC-N : 206-059-0

## Potassium bicarbonate > RPE-For analysis-ACS

RPE

Description .....White crystalline powder Chloride .....<=10 ppm Ca .....<=20 ppm Assay (alkalimetric) .....99.7 - 100.5 % s.s.  
Identification.....Positive Phosphate .....<=5 ppm Fe.....<=5 ppm  
Water-insoluble matter .....<=100 ppm Total sulphur.....<=30 ppm Mg .....<=10 ppm  
Ammonium .....<=5 ppm Heavy metals (Pb) .....<=5 ppm Na .....<=300 ppm

Code	Size	Packaging	Notes
470287	1kg	Plastic bottle	
470289	5kg	Plastic bottle	

## Potassium bicarbonate > ERBAPharm-According to pharmacopoeia: USP

ERBAPharm

Description.....White crystalline powder      Loss on drying .....<= 0.3 %      Assay (alkalimetric) .....99.5 - 101.5 % s.s.  
 Identification.....Positive      Carbonate.....<= 2.5 %  
 Residue solvents.....Conform USP-NF      Heavy metals (Pb) .....<= 10 ppm


Code	Size	Packaging	Notes
359327	1kg	Plastic bottle	
359323	2,5kg	Plastic bottle	
359324	50kg	Plastic bucket	

## Potassium bisulfate

Synonym : Potassium hydrogen sulfate

KHSO<sub>4</sub>  
 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**  
 3.2/1B; H314-3.8/3; H335  
 P260-P261-P304+P340-P305+P351+P338-P405-P501a

## Potassium bisulfate > RPE-For analysis

RPE

Description.....White crystals      Chloride .....<= 20 ppm      Fe.....<= 20 ppm  
 Identification.....Positive      Heavy metals (Pb) .....<= 20 ppm      Assay (acidimetric) .....98 - 102 %  
 Ammonium .....<= 20 ppm      Ca.....<= 20 ppm

Code	Size	Packaging	Notes
470557	1kg	Plastic bottle	
470552	25kg	Drum	

## Potassium bromate

KBrO<sub>3</sub>  
 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**  
 2.14/1; H271-3.1.O/3; H301-3.6/1B; H350-A26  
 P210-P221-P283-P301+P310-P405-P501a

## Potassium bromate > RS-For analysis according to Ph. Eur. Chap. 4.2.1

RS

Code	Size	Packaging	Notes
612000300	50g	Bottle	Ref Ph.Eur 2000300


## Potassium bromate > RPE-For analysis-ISO-ACS-Reag.Ph.Eur.-Reag.USP

RPE

Description.....White crystals      Water-insoluble matter .....<= 50 ppm      Na.....<= 100 ppm  
 Identification.....Positive      Heavy metals (Pb) .....<= 5 ppm      Assay (oxidimetric) .....>= 99.8 %  
 pH sol. 5% at 25° C .....5.0 - 9.0      Sulphate .....<= 50 ppm  
 Bromide.....Conform ACS      Fe.....<= 20 ppm

Code	Size	Packaging	Notes
470655	250g	Plastic bottle	

## Potassium bromate 0.033 mol/l (0.198N)

 **Danger**  
 3.6/1B; H350-A26  
 P281-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	1l	Bottle	Ref Ph.Eur 3004200


Potassium bromate 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	1l	Bottle	Ref Ph.Eur 3004300

Potassium bromate 0.0167 mol/l (0.1002N)

 **Danger**  
3.6/1B; H350-A26  
P281-P201-P202-P308+P313-P405-P501a

Potassium bromate 0.0167 mol/l (0.1002N) > RPE-NORMEX -For analysis

RPE


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

Code	Size	Packaging	Notes
470681	Normex	Glass ampoule	

Volumetric concentrated solution to prepare 1 L of solution 0,1 N.

Potassium bromide

KBr  
Molecular Weight 119,01  
CAS : 7758-02-3  
EEC-N : 231-830-3

 **Warning**  
3.3/2; H319  
P280-P264-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	100g	Glass bottle	

Potassium bromide > RPE-For analysis-ACS

RPE

Description.....White crystals Bromate.....<= 10 ppm Sulphate.....<= 50 ppm Fe.....<= 5 ppm  
Identification.....Positive Chloride.....<= 0.2 % Heavy metals (Pb).....<= 5 ppm Mg.....<= 10 ppm  
pH sol. 5% at 25° C.....5.0 - 8.8 Iodate.....<= 10 ppm Ba.....<= 20 ppm Na.....<= 0.02 %  
Water-insoluble matter.....<= 50 ppm Iodide.....<= 10 ppm Ca.....<= 20 ppm Assay (argentimetric).....>= 99.0 %

Code	Size	Packaging	Notes
470735	250g	Plastic bottle	
470737	1kg	Plastic bottle	
470733	25kg	Plastic bucket	

Potassium bromide >  
ERBAPharm-According to pharmacopoeia: BP-DAB-Ph.Eur.-Ph.Franc.

ERBAPharm

Description.....White crystalline powder Iodide.....Conform Ph.Eur. Sulphate.....<= 100 ppm  
Identification.....Positive Chloride.....<= 1,0 % Fe.....<= 20 ppm  
Appearance of solution.....Conform Ph.Eur. Loss on drying.....<= 0.6 % Assay (argentimetric).....98.0 - 100.5 % s.s.  
Acidity or alkalinity.....Conform Ph.Eur. Chloride.....<= 0.6 %  
Bromate.....Conform Ph.Eur. Heavy metals (Pb).....<= 10 ppm  
Mg,alkal.earth met.(Ca).....<= 200 ppm

Code	Size	Packaging	Notes
359707	1kg	Plastic bottle	
359702	5kg	Plastic bottle	

# POT

## Potassium carbonate

K<sub>2</sub>CO<sub>3</sub>  
Molecular Weight 138,21  
CAS : 584-08-7  
EEC-N : 209-529-3



### Warning

3.1.0/4; H302-3.2/2; H315-3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

### Potassium carbonate > RPE-For analysis-ACS-Reag.Ph.Eur.-Reag.USP

RPE

Description.....White powder Phosphate .....<= 10 ppm Ca.....<= 50 ppm Assay (alkalimetric).....>= 99.0 %  
Identification.....Positive Silicate .....<= 50 ppm Fe.....<= 5 ppm  
Water-insoluble matter.....<= 100 ppm Total sulphur.....<= 40 ppm Mg.....<= 20 ppm  
Chloride .....<= 30 ppm Heavy metals (Pb).....<= 5 ppm Na.....<= 200 ppm

Code	Size	Packaging	Notes
470805	250g	Plastic bottle	
470807	1kg	Plastic bottle	
470801	5kg	Plastic bottle	

### Potassium carbonate > RE-Pure

RE

Description.....White crystalline powder Heavy metals (Pb).....<= 1 ppm Loss on drying .....<= 0.8 %  
Identification.....Positive Fe.....<= 5 ppm KOH.....<= 0.15 %  
Chloride .....<= 20 ppm Na.....<= 0.25 %  
Sulphate .....<= 50 ppm Assay (alkalimetric).....99.0 - 100.0 %

Code	Size	Packaging	Notes
359809	5kg	Plastic bottle	
359803	25kg	Plastic bucket	

## Potassium chloride

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 % Sulphate .....<= 0.002 % Fe .....<= 0.0002 %  
pH sol. 5% at 25°C.....5.4 - 8.6 Ammonium (NH<sub>4</sub>).....<= 0.00007 % Heavy metals (Pb).....<= 0.0002 %  
Water insoluble substances.....<= 0.005 % Phosphate .....<= 0.001 %

Code	Size	Packaging	Notes
471181	5kg	Plastic bottle	

### Potassium chloride > RPE-For analysis-ISO-ACS-Reag.Ph.Eur.-Reag.USP

RPE

Description.....White crystals Bromide .....<= 100 ppm Ca.....<= 20 ppm  
Identification.....Positive Nitrate,Chlorate (NO<sub>3</sub>).....<= 30 ppm Fe.....<= 3 ppm  
Acidity or alkalinity.....Conform Ph.Eur. Phosphate .....<= 5 ppm Mg.....<= 10 ppm  
Appearance of solution.....Conform Iodide.....<= 20 ppm Na.....<= 50 ppm  
pH sol. 5% at 25° C.....5.4 - 8.6 Sulphate .....<= 10 ppm Assay (argentimetric).....99.0 - 100.5 % s.s.  
Loss on drying .....<= 1.0 % Heavy metals (Pb) .....<= 5 ppm Assay (argentimetric) .....99.0 - 100.5 % t.q.  
Water-insoluble matter.....<= 50 ppm Al.....<= 1 ppm  
Mg and alkaline-earth metals (Ca).....<= 200 ppm Ba.....<= 10 ppm

Code	Size	Packaging	Notes
471177	1kg	Plastic bottle	
471171	5kg	Plastic bottle	
471173	25kg	Plastic bucket	

### Potassium chloride >

ERBAPharm

#### ERBAPharm-According to pharmacopoeia: Ph.Eur.-USP-FU-Ph.Franc.-BP-DAB

Description.....White crystalline powder Na.....Conform USP-NF Mg,alkal.earth met.(Ca).....<= 200 ppm  
Identification.....Positive Calcium + Magnesium.....Conform USP-NF Sulphate .....<= 300 ppm  
Appearance of solution.....Conform Ph.Eur. Residue solvents.....Conform USP-NF Fe.....<= 20 ppm  
Acidity or alkalinity.....Conform Ph.Eur. Loss on drying .....<= 1.0 % Assay (argentimetric).....99.0 - 100.5 %  
Iodide.....<= 50 ppm Bromide .....<= 0.1 % Origin (BSE/TSE) .....Synthesis  
Barium.....Conform Ph.Eur. Heavy metals (Pb).....<= 10 ppm Residual solvents (CPMP/ICH/283/95).....Conform

Code	Size	Packaging	Notes
360107	1kg	Plastic bottle	
360109	5kg	Plastic bottle	
360106	25kg	Plastic bucket	
360104	50kg	Fibre drum	

## Potassium chloride 25g/l in HCl

Potassium chloride 25g/l in HCl > RS-Ionisation standard solution for AAS

RS

Code	Size	Packaging	Notes
504538	500ml	Bottle	25 g/L Matrix : Water

## Potassium chloride 12g/l

Potassium chloride 12g/l > RS-For analysis according to Ph. Eur. Chap. 2.2.25

RS

Code	Size	Packaging	Notes
506431	8x10ml	Glass ampoule	For the detection of stray light

## Potassium chloride 3.5 mol/l (3.5N) + silver chloride

Potassium chloride 3.5 mol/l (3.5N) + silver chloride > RPE-For analysis

RPE

Description .....Clear colourless liquid Identification.....Positive Density at 20° C.....1.147 ÷ 1.151

Code	Size	Packaging	Notes
471245	250ml	Bottle	

Content is guaranteed for standardized volumes at 20°C.

## Potassium chloride 3.5 mol/l (3.5 N)

Potassium chloride 3.5 mol/l (3.5 N) > RPE-For analysis

RPE

Description .....Clear colourless liquid Identification.....Positive Assay (KCl).....3.47 ÷ 3.53 M

Code	Size	Packaging	Notes
471225	250ml	Plastic bottle	

Content is guaranteed for standardized volumes at 20°C.

## Potassium chloride 3 mol/l (3N) water-glycerol solution

Potassium chloride 3 mol/l (3N) water-glycerol solution > RPE-For analysis

RPE

Description .....Clear colourless liquid Assay (KCl).....1.485 - 1.515  
Identification.....Positive Density at 20°C.....1.190 - 1.210

Code	Size	Packaging	Notes
471275	250ml	Bottle	

Content is guaranteed for standardized volumes at 20°C.

## Potassium chloride 3 mol/l (3N) + silver chloride

Potassium chloride 3 mol/l (3N) + silver chloride > RPE-For analysis

RPE

Description .....Clear colourless liquid Identification.....Positive Density at 20° C.....1.130 ÷ 1.134

Code	Size	Packaging	Notes
471235	250ml	Bottle	

Content is guaranteed for standardized volumes at 20°C.

# POT

## Potassium chloride 3 mol/l (3N)

### Potassium chloride 3 mol/l (3N) > RPE-For analysis

RPE

Description .....Clear colourless liquid Identification.....Positive Density at 20° C.....1.130 ÷ 1.134

Code	Size	Packaging	Notes
471215	250ml	Plastic bottle	

Content is guaranteed for standardized volumes at 20°C.

## Potassium chloride 1 mol/l (1N)

### Potassium chloride 1 mol/l (1N) > RS-For soils analysis

RS

Assay (potentiometry).....0.98 - 1.02 N

Code	Size	Packaging	Notes
PS0772/49	25l	Plastic tank	
PS0772/79	25l	Plastic drum	
PS0772/80P	1000l	Plastic container	

## Potassium chloride 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	1l	Bottle	Ref Ph.Eur 1069101

## Potassium chloride 0.01 mol/l (0.01N)

### Potassium chloride 0.01 mol/l (0.01N) > RPE-For analysis

RPE

Code	Size	Packaging	Notes
505033	1l	Plastic bottle	

## Potassium chloride saturated solution

KCl  
Molecular Weight 74,555  
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	250ml	Bottle	

Electrolytic solution filling.

## Potassium chloride solution

### Potassium chloride solution > RPE-For analysis

RPE

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

Code	Size	Packaging	Notes
471285	250ml	Bottle	
471255	1l	Bottle	

## Potassium chromate

K2CrO4  
Molecular Weight 194,2  
CAS : 7789-00-6  
EEC-N : 232-140-5

**Classification transport**  
ONU: 3288  
Transport Hazard class: 6.1  
Packing group II



**Danger**

3.5/1B; H340-3.6/1B; H350I-4.1.A/1; H400-4.1.C/1; H410-3.2/2; H315-3.3/2; H319-3.4.S/1; H317-3.8/3; H335-A26  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

### 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	250g	Plastic bottle	
471297	1kg	Plastic bottle	

## Potassium chromate 5% solution

**Classification transport**  
ONU: 3287  
Transport Hazard class: 6.1  
Packing group II



**Danger**

3.5/1B; H340-3.6/1B; H350I-3.2/2; H315-3.3/2; H319-3.4.S/1; H317-4.1.C/2; H411-A26  
P261-P280-P305+P351+P338-P308+P313-P405-P501a

### Potassium chromate 5% solution > RS-For agroalimentary analysis

**RS**

Appearance.....Conform Assay.....4.75 - 5.25 %

Code	Size	Packaging	Notes
502681	1l	Plastic bottle	

Composition according to NF V04-314: K2CrO4 50g water QSP 1 L. Only for the use of professionals users

### Potassium chromate 5% solution > RS-For analysis according to Ph. Eur. Chap. 4.1.1

**RS**

Code	Size	Packaging	Notes
611069201	1l	Bottle	Ref Ph.Eur 1069201

## Potassium citrate tribasic

K3C6H5O7.H2O  
Molecular Weight 324,42  
CAS : 6100-05-6  
EEC-N : 212-755-5

### Potassium citrate tribasic > RPE-For analysis

**RPE**

Description.....White crystalline powder Ammonium.....<=10 ppm Total sulphur.....<=50 ppm Na.....<=200 ppm  
Identification.....Positive Chloride.....<=10 ppm As.....<=0.4 ppm Ni.....<=5 ppm  
Reducing substances.....Conform Water-insoluble matter.....<=30 ppm Ca.....<=50 ppm Pb.....<=10 ppm  
Ready carbonizable substances.....Conform Heavy metals (Pb).....<=20 ppm Cu.....<=5 ppm Zn.....<=2 ppm  
pH sol. 5% at 25° C.....7.5 - 9.5 Oxalate.....<=100 ppm Fe.....<=5 ppm Assay (non-aqueous medium).....>=99.5 %

Code	Size	Packaging	Notes
471025	250g	Plastic bottle	
471027	1kg	Plastic bottle	

### Potassium citrate tribasic > ERBAPharm-According to pharmacopoeia: Ph.Eur.-USP-Ph.Franc.-BP

**ERBAPharm**

Description.....White crystalline powder Tartrate.....Conform USP-NF Heavy metals (Pb).....<=10 ppm  
Identification.....Positive Organic volatile impurities.....Conform USP-NF Oxalate.....<=300 ppm  
Appearance of solution.....Conform Ph.Eur. Water (K.F.).....4.0 - 7.0 % Sulphate.....<=150 ppm  
Acidity or alkalinity.....Conform Ph.Eur. Loss on drying.....3.0 - 6.0 % Na.....<=0.3 %  
Ready carbonizable substances.....Conform Ph.Eur. Chloride.....<=50 ppm Assay (non-aqueous medium).....99.0 - 101.0 % s.s.

Code	Size	Packaging	Notes
359956	500g	Plastic bottle	
359958	2,5kg	Plastic bottle	
359954	50kg	Bag	

# POT

## Potassium dichromate

Synonym : Potassium bichromate

$K_2Cr_2O_7$   
Molecular Weight 294,19  
CAS : 7778-50-9  
EEC-N : 231-906-6

**Classification transport**  
ONU: 3086  
Transport Hazard class: 6.1  
Packing group III

 **Danger**

2.14/2; H272-3.1.O/3; H301-3.1.I/2; H330-3.4.R/1; H334-3.5/1B; H340-3.6/1B; H350-3.7/1B; H360FD-3.9/1; H372-3.2/1B; H314-4.1.A/1; H400-4.1.C/1; H410-3.1.D/4; H312-3.4.S/1; H317-A26  
P210-P221-P304+P340-P305+P351+P338-P342+P311-P405-P501a

### Potassium dichromate > RPE-For analysis

RPE

Description.....Orange crystals      Loss on drying (105°C).....<=500 ppm  
Identification.....Positive      Water-insoluble matter.....<=50 ppm

Code	Size	Packaging	Notes
470336	500g	Plastic bottle	
470337	1kg	Plastic bottle	

### Potassium dichromate > RE-Pure

RE

Description.....Orange crystals      Water not sol. matter.....<= 0.02 %      Sulphate.....<= 200 ppm  
Identification.....Positive      Loss on drying.....<= 0.05 %      Assay (iodometric).....>= 99.7 %

Code	Size	Packaging	Notes
359367	1kg	Plastic bottle	

## Potassium dichromate - Sulfuric acid solution

### Potassium dichromate - Sulfuric acid solution > RS-For analysis according to Ph. Eur. Chap. 2.2.25

RS

Code	Size	Packaging	Notes
506441	8x10ml	Glass ampoule	To control the absorbance between 235 and 350 nm

## Potassium dichromate 0.0417 mol/l (0.25 N)

**Classification transport**  
ONU: 3287  
Transport Hazard class: 9  
Packing group III

 **Danger**

3.4.R/1; H334-3.5/1B; H340-3.6/1B; H350-3.7/1B; H360FD-3.9/2; H373-3.1.I/4; H332-3.2/2; H315-3.3/2; H319-3.4.S/1; H317-4.1.C/2; H411-A26  
P260-P304+P340-P305+P351+P338-P342+P311-P405-P501a

### Potassium dichromate 0.0417 mol/l (0.25 N) > RS-For COD determination

RS

Description.....Orange clear liquid      Assay (potentiometry).....0.2495 - 0.2505 N

Code	Size	Packaging	Notes
470451	1l	Glass bottle	

Content is guaranteed for standardized volumes at 20°C.

## Potassium dichromate 0.04 mol/l (0.24 N) in 80 g/l HgSO<sub>4</sub>

**Classification transport**  
ONU: 2922  
Transport Hazard class: 8  
Packing group II

 **Danger**

3.1.I/3; H331-3.4.R/1; H334-3.5/1B; H340-3.6/1B; H350-3.7/1B; H360FD-3.9/2; H373-3.2/1A; H314-3.1.O/4; H302-3.4.S/1; H317-4.1.C/2; H411-A26  
P260-P304+P340-P305+P351+P338-P342+P311-P405-P501a

### Potassium dichromate 0.04 mol/l (0.24 N) in 80 g/l HgSO<sub>4</sub> > RS-For COD determination

RS

Assay.....0.0398 - 0.0402 mol/L

Code	Size	Packaging	Notes
526711	1l	Plastic bottle	
526712	2,5l	Plastic bottle	



## Potassium dichromate 0.0167 mol/l (0.1 N)

### Classification transport

ONU: 1935  
 Transport Hazard class: 9  
 Packing group III



**Danger**

3.1.1/3; H331-3.4.R/1; H334-3.5/1B; H340-3.6/1B; H350-3.7/1B; H360FD-3.9/2; H373-3.2/1B; H314-3.4.S/1; H317-3.8/3; H335-H336-4.1.C/2; H411-A26  
 P260-P304+P340-P305+P351+P338-P342+P311-P405-P501a

► **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	1l	Bottle	Ref Ph.Eur 3004600

► **Potassium dichromate 0.0167 mol/l (0.1 N) >** RPE-For analysis

RPE

Assay (potentiometry).....0.0998 - 0.1002 N

Code	Size	Packaging	Notes
P3350016	1l	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	Normex	Glass ampoule	

Volumetric concentrated solution to prepare 1 L of solution 0,1 N.

## Potassium dichromate solution 0.5%

► **Potassium dichromate solution 0.5% >**  
 RS-For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611069509	100ml	Bottle	Potassium dichromate solution R1 Ref Ph.Eur 1069502
611069502	1l	Bottle	Potassium dichromate solution R1 Ref Ph.Eur 1069502

## Potassium dichromate solution 106 g/l

### Classification transport

ONU: 1935  
 Transport Hazard class: 6.1  
 Packing group III



**Danger**

3.1.1/3; H331-3.4.R/1; H334-3.5/1B; H340-3.6/1B; H350-3.7/1B; H360FD-3.9/1; H372-3.2/1B; H314-3.1.O/4; H302-3.4.S/1; H317-3.8/3; H335-H336-4.1.C/2; H411-A26  
 P260-P304+P340-P305+P351+P338-P342+P311-P405-P501a

► **Potassium dichromate solution 106 g/l >**  
 RS-For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611069501	1l	Bottle	Ref Ph.Eur 1069501

## Potassium ferricyanide

Synonym : Potassium hexacyanoferrate(III)

$K_3Fe(CN)_6$   
 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 Chloride.....<=100 ppm Assay (oxidimetric).....>=99.0 %  
 Identification.....Positive Ferrocyanide.....<=500 ppm  
 Water-insoluble matter.....<=50 ppm Sulphate.....<=100 ppm

Code	Size	Packaging	Notes
471365	250g	Plastic bottle	
471367	1kg	Plastic bottle	

# POT

## ▶ Potassium ferricyanide > RE-Pure

RE

Description.....Red orange crystals Chloride .....<=0.2 % Sulphate .....<=500 ppm  
 Identification.....Positive Ferricyanide .....<=0.5 % Assay (oxidimetric) .....>=98 %

Code	Size	Packaging	Notes
360257	1kg	Plastic bottle	
360252	25kg	Drum	

## Potassium ferricyanide solution 11%

### ▶ Potassium ferricyanide solution 11% > RPE-For analysis

RPE

Description.....Verdogn yellow clear liquid Identification.....Positive Density at 20° C.....>=1.06

Code	Size	Packaging	Notes
E471431	1l	Glass bottle	

## Potassium ferrocyanide

Synonym : Potassium hexacyanoferrate(II) trihydrate

$K_4Fe(CN)_6 \cdot 3H_2O$   
 Molecular Weight 422,41  
 CAS : 14459-95-1

### ▶ Potassium ferrocyanide > RPE-For analysis-ACS-Reag.Ph.Eur.-Reag.USP

RPE

Description.....Yellow crystals Chloride .....<=100 ppm Sulphate .....Conform ACS  
 Identification.....Positive Water-insoluble matter .....<=50 ppm Assay (oxidimetric) .....98.5 - 102.0 %

Code	Size	Packaging	Notes
471485	250g	Plastic bottle	
471487	1kg	Plastic bottle	
471488	2,5kg	Plastic bottle	
471483	25kg	Bag	

### ▶ Potassium ferrocyanide > RE-Pure

RE

Description.....Yellow crystals Water-insoluble matter .....<= 0.1 %  
 Identification.....Positive Assay (oxidimetric) .....>= 98 %

Code	Size	Packaging	Notes
360557	1kg	Plastic bottle	
360552	25kg	Drum	

## Potassium ferrocyanide solution 10%

### ▶ Potassium ferrocyanide solution 10% > RPE-For analysis

RPE

Description.....Yellow clear liquid Density at 20° C.....>=1.06  
 Identification.....Positive Assay (oxidimetric) .....9.5 - 10.5 %

Code	Size	Packaging	Notes
E471501	1l	Glass bottle	

## Potassium ferrocyanide solution 53 g/l

### ▶ Potassium ferrocyanide solution 53 g/l > RS-For analysis according to Ph. Eur. Chap. 4.1.1


RS

Code	Size	Packaging	Notes
611069801	100ml	Bottle	Ref Ph.Eur 1069801

## Potassium fluoride

KF  
Molecular Weight 58,10  
CAS : 7789-23-3  
EEC-N : 232-151-5

**Classification transport**  
ONU: 1812  
Transport Hazard class: 6.1  
Packing group III

 **Danger**  
3.1.O/3; H301-3.1.D/3; H311-3.1.I/3; H331  
P261-P271-P280-P304+P340-P405-P501a

### Potassium fluoride > RPE-For analysis

RPE


Description.....White powder Identification.....Positive  
Water not sol. matter .....<=0.01 % Chloride .....<=0.05 % Sulphite .....<=100 ppm Ni .....<=20 ppm  
Acidity (Hydrofluor ac) .....<=0.1 % Fluosilicates.....<=0.05 % Cu .....<=20 ppm Pb .....<=20 ppm  
Alkalinity (KOH).....<=0.1 % Sulphate.....<=100 ppm Fe.....<=10 ppm Zn .....<=20 ppm  
Assay (non-aqueous medium) .....>=98.0 %

Code	Size	Packaging	Notes
471561	250g	Plastic bottle	
471562	1kg	Plastic bottle	
471563	10kg	Plastic bottle	

## Potassium fluoride dihydrate

KF.2H<sub>2</sub>O  
Molecular Weight 58,10  
CAS : 7789-23-3  
EEC-N : 232-151-5

**Classification transport**  
ONU: 1812  
Transport Hazard class: 6.1  
Packing group III

 **Danger**  
3.1.O/3; H301-3.1.D/3; H311-3.1.I/3; H331  
P261-P271-P280-P304+P340-P405-P501a

### Potassium fluoride dihydrate > RPE-For analysis


RPE

Description.....White crystals Identification.....Positive Assay .....>= 98.5 %

Code	Size	Packaging	Notes
471555	250g	Plastic bottle	

## Potassium fluorotitanate

K<sub>2</sub>TiF<sub>6</sub>  
Molecular Weight 240,09  
CAS : 16919-27-0  
EEC-N : 240-969-9

 **Danger**  
3.1.O/3; H301-3.8/3; H335  
P261-P271-P304+P340-P301+P310-P405-P501a

### Potassium fluorotitanate > RPE-For analysis

RPE

Description.....White crystalline powder Identification.....Positive  
Ammonium .....<=20 ppm Chloride .....<=200 ppm Sulphate .....<=50 ppm  
Phosphate .....<=200 ppm Fe .....<=100 ppm  
Heavy metals (Pb) .....<=50 ppm Assay (gravimetric).....99 - 100 %

Code	Size	Packaging	Notes
471584	100g	Glass bottle	

## Potassium guaiacolsulfonate

C<sub>7</sub>H<sub>7</sub>KO<sub>5</sub>S  
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 % Assay (non-aqueous medium) .....>=95.5 %  
Heavy metals (Pb) .....<=20 ppm Sulphate .....<=200 ppm

Code	Size	Packaging	Notes
363807	1kg	Plastic bottle	

# POT

## di-Potassium hexachloroplatinate

Synonyms : Potassium hexachloroplatinate(IV)  
Potassium platinum(IV) hexachloride

$K_2PtCl_6$   
Molecular Weight 486,01  
CAS : 16921-30-5  
EEC-N : 240-979-3



**Danger**

3.1.O/3; H301-3.4.R/1; H334-3.3/1; H318-3.4.S/1; H317  
P261-P280-P305+P351+P338-P342+P311-P405-P501a

### 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	1g	Plastic ampoule	

## Potassium hydrogen carbonate ▶ Potassium bicarbonate

## Potassium hydrogen iodate

Synonym : Potassium biiodate

$KIO_3 \cdot HIO_3$   
Molecular Weight 389,92  
CAS : 13455-24-8  
EEC-N : 236-650-9

**Classification transport**

ONU: 1479  
Transport Hazard class: 5.1  
Packing group II



**Danger**

2.13/2; H272-3.1.O/4; H302-3.1.I/4; H332  
P210-P221-P261-P271-P304+P340-P501a

### 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	50g	Glass bottle	

## Potassium hydrogen oxalate

$KOOCOOH$   
Molecular Weight 128,1  
CAS : 127-95-7  
EEC-N : 204-873-0



**Warning**

3.1.O/4; H302-3.1.D/4; H312  
P280-P312-P330-P363-P301+P312-P501a

### Potassium hydrogen oxalate > RPE-For analysis

**RPE**

Description.....White crystalline powder  
Identification.....Positive  
pH sol. 2% at 25° C.....2.0 - 3.4  
Ammonium.....<=20 ppm  
Chloride.....<=10 ppm  
Total phosphorus.....<=10 ppm  
Water-insoluble matter.....<=50 ppm  
Heavy metals (Pb).....<=10 ppm  
Nitrate.....<=30 ppm  
Total sulphur.....<=100 ppm  
Ca.....<=100 ppm  
Cu.....<=5 ppm  
Fe.....<=10 ppm  
Na.....<=200 ppm  
Ni.....<=5 ppm  
Pb.....<=5 ppm  
Zn.....<=5 ppm  
Assay (oxidimetric).....>=99.5 %

Code	Size	Packaging	Notes
473185	250g	Plastic bottle	

## Potassium hydrogen phthalate

$HOOC_6H_4COOK$   
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	50g	Bottle	Ref Ph.Eur 2000400

## Potassium hydrogen phthalate > RS-For volumetry and pHmetry

Description.....White crystals pH sol. M/20 at 25° C.....4.001 - 4.011  
 Identification.....Positive Assay.....>= 99,5 %

Code	Size	Packaging	Notes
471913	25g	Glass bottle	

## Potassium hydrogen phthalate > RPE-For analysis

Description.....White crystals Heavy metals (Pb).....<=5 ppm Cu.....<=5 ppm Pb.....<=5 ppm  
 Identification.....Positive Total sulphur.....<=20 ppm Fe.....<=5 ppm Zn.....<=5 ppm  
 Loss on drying (110°C).....<=500 ppm Ca.....<=10 ppm Mg.....<=10 ppm Assay (acidimetric).....>=99,5 %  
 Total nitrogen.....<=10 ppm Cd.....<=5 ppm Mn.....<=5 ppm  
 Chloride.....<=20 ppm Co.....<=5 ppm Na.....<=100 ppm  
 Water-insoluble matter.....<=30 ppm Cr.....<=10 ppm Ni.....<=5 ppm

Code	Size	Packaging	Notes
471865	250g	Plastic bottle	
471867	2,5kg	Plastic bottle	

## Potassium hydrogen phthalate 0.2 mol/l (0.2N)

### Potassium hydrogen phthalate 0.2 mol/l (0.2N) > RS-For analysis according to Ph. Eur. Chap. 4.1.1

Code	Size	Packaging	Notes
611070001	1l	Bottle	Ref Ph.Eur 1070001

## Potassium hydrogen phthalate 0.1 mol/l (0.1N)

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

**Danger**  
 3.2/1A; H314-2.6/3; H226  
 P210-P241-P304+P340-P305+P351+P338-P403+P235-P405-P501a

### Potassium hydrogen phthalate 0.1 mol/l (0.1N) > RPE-For analysis

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

Code	Size	Packaging	Notes
E471926	500ml	Glass bottle	

Ready-to-use solution in acetic anhydride : 0,1 N.

## Potassium hydroxide, flakes

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**  
 3.2/1A; H314-3.1.0/4; H302  
 P260-P280-P304+P340-P305+P351+P338-P405-P501a

### Potassium hydroxide, flakes > ERBAPharm-According to pharmacopoeia: BP-Ph.Eur.

Description.....White flakes Chloride.....<= 50 ppm Fe.....<= 10 ppm  
 Identification.....Positive Phosphate.....<= 20 ppm Na.....<= 1.0 %  
 Appearance of solution.....Conform Ph.Eur. Heavy metals (Pb).....<= 10 ppm Assay (total alkalin.).....85.5 - 100.5 %  
 Carbonate.....<= 2.0 % Sulphate.....<= 50 ppm

Code	Size	Packaging	Notes
362201	25kg	Bag	

# POT

## Potassium hydroxide, flakes > RE-Pure

RE

Description ..... White flakes Potassium carbonate ..... <= 1 % Assay (acidimetric) ..... >= 85 %  
 Identification ..... Positive Na (NaOH) ..... <= 0.9 %  
 Chloride ..... <= 80 ppm Sulphate ..... <= 20 ppm

Code	Size	Packaging	Notes
362257	1kg	Plastic bottle	
362251	25kg	Bag	

## Potassium hydroxide, pellets

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**  
 3.2/1A; H314-3.1.0/4; H302  
 P260-P280-P304+P340-P305+P351+P338-P405-P501a

## Potassium hydroxide, pellets > RS-RSE For electronic use

RS

Description ..... White pellets Water-insoluble matter ..... <=10 ppm Ca ..... <=5 ppm Mn ..... <=0.1 ppm  
 Identification ..... Positive Heavy metals (Pb) ..... <=2 ppm Cd ..... <=0.1 ppm Na ..... <=300 ppm  
 Total nitrogen ..... <=3 ppm Subst. ppt by NH4OH ..... <=20 ppm Cu ..... <=0.5 ppm Ni ..... <=1 ppm  
 Carbonate ..... <=5000 ppm Silicate ..... <=15 ppm Fe ..... <=1 ppm Pb ..... <=1 ppm  
 Chloride ..... <=10 ppm Sulphate ..... <=5 ppm Hg ..... <=0.1 ppm Zn ..... <=1 ppm  
 Phosphate ..... <=5 ppm As ..... <=0.5 ppm Mg ..... <=5 ppm Assay (alkalimetric) ..... >=86 %

Code	Size	Packaging	Notes
472097	1kg	Plastic bottle	
472092	5kg	Plastic bottle	

## Potassium hydroxide, pellets > RS-For microanalysis

RS

Description ..... White pellets Identification ..... Positive

Code	Size	Packaging	Notes
472086	500g	Plastic bottle	

## Potassium hydroxide, pellets > RPE-For analysis-ACS-ISO

RPE

Description ..... White pellets Total nitrogen ..... <= 10 ppm Phosphate ..... <= 5 ppm Fe ..... <= 10 ppm Assay (alkalimetric) ..... >= 85 %  
 Identification ..... Positive Carbonate ..... <= 2.0 % Sulphate ..... <= 30 ppm Na ..... <= 500 ppm Mg ..... <= 20 ppm  
 Ca ..... <= 50 ppm Chloride ..... <= 100 ppm Heavy metals (Ag) ..... <= 10 ppm Ni ..... <= 10 ppm

Code	Size	Packaging	Notes
472173	1kg	Plastic bottle	
472175	5kg	Plastic bottle	

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	1kg	Plastic bottle	
472059	5kg	Plastic bottle	
472056	25kg	Bag	

## Potassium hydroxide, pellets > ERBAPharm-According to pharmacopoeia: FU-Ph.Eur.

ERBAPharm


Description ..... White pellets Carbonate ..... <=2.0 % Sulphate ..... <=50 ppm  
 Identification ..... Positive Chloride ..... <=50 ppm Fe ..... <=10 ppm  
 Appearance of solution ..... Conform Ph.Eur. Phosphate ..... <=20 ppm Assay (alkalinity total) ..... 85.0 - 100.5 %  
 Na ..... <=1.0 % Heavy metals (Pb) ..... <=10 ppm

Code	Size	Packaging	Notes
362237	1kg	Plastic bottle	
362239	5kg	Plastic bottle	
362235	25kg	Bag	

## Potassium hydroxide solution 45%

KOH  
CAS : 1310-58-3

**Classification transport**  
ONU: 1814  
Transport Hazard class: 8  
Packing group II

 **Danger**  
3.2/1A; H314-3.1.O/4; H302  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

### Potassium hydroxide solution 45% > RS-RSE For electronic use

RS


Description .....Clear liquid	Ni .....<= 1 ppm	Sulphate.....<= 3 ppm	Cd.....<= 0.05 ppm
Colour.....<= 20 APHA	Assay (acidimetric) .....45.0 - 46.0 %	Silicate .....<= 10 ppm	Mg .....<= 3 ppm
Carbonate.....<= 1.0 %	Subst. ppt by NH <sub>4</sub> OH .....<= 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	5l	Plastic bottle	
472108	260kg	Plastic drum	

## Potassium hydroxide solution 38% (40° Bé) in water

KOH  
CAS : 1310-58-3

**Classification transport**  
ONU: 1814  
Transport Hazard class: 8  
Packing group II

 **Danger**  
3.2/1A; H314-3.1.O/4; H302  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

### Potassium hydroxide solution 38% (40° Bé) in water > RPE-For analysis

RPE


Description .....Clear colourless liquid	Chloride .....<=40 ppm	Heavy metals (Pb) .....<=20 ppm	Sulphate.....<=20 ppm
Identification.....Positive	Nitrogen compounds (N).....<=10 ppm	Subst. ppt by NH <sub>4</sub> OH .....<=200 ppm	Fe.....<=5 ppm
Carbonate.....<=1.5 %	Phosphate .....<=10 ppm	Silicate .....<=100 ppm	Assay .....38 - 40 %

Code	Size	Packaging	Notes
E472151	1l	Plastic bottle	
E472152	35kg	Plastic drum	

## Potassium hydroxide solution 28%

KOH  
CAS : 1310-58-3

**Classification transport**  
ONU: 1814  
Transport Hazard class: 8  
Packing group II

 **Danger**  
3.2/1A; H314-3.1.O/4; H302  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

### Potassium hydroxide solution 28% > RS-For gaz analysis according to Orsat

RS

Description .....Clear colourless liquid	Density at 20° C.....~ 1.27
Identification.....Positive	Assay (alkalimetric).....27 - 29 %

Code	Size	Packaging	Notes
E472221	1l	Plastic bottle	

## Potassium hydroxide solution 3% in ethanol

### Potassium hydroxide solution 3% in ethanol > RS-For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611070303	100ml	Bottle	Ref Ph.Eur 1070303

# POT

## Potassium hydroxide 2 mol/l (2N) in ethanol

### Classification transport

ONU: 2924  
Transport Hazard class: 3  
Packing group II



**Danger**

2.6/2; H225-3.2/1A; H314  
P210-P241-P304+P340-P305+P351+P338-P403+P235-P405-P501a

### 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	100ml	Bottle	Ref Ph.Eur 1070301

## Potassium hydroxide 1 mol/l (1N)

### Classification transport

ONU: 1814  
Transport Hazard class: 8  
Packing group II



**Danger**

3.2/1A; H314  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

### Potassium hydroxide 1 mol/l (1N) > RS-For analysis according to Ph. Eur. Chap. 4.2.2

RS

Code	Size	Packaging	Notes
613009100	1l	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

Code	Size	Packaging	Notes
472287000	1l	Plastic bottle	
472282000	5l	Kubidos	
472281000	10l	Kubidos	

56,11 g of KOH. Volumetric solution ready-to-use : 1 N. 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	Normex	Plastic ampoule	

56,11 g of KOH. Volumetric concentrated solution to prepare 1 L of solution 1 N

## Potassium hydroxide 0.5 mol/l (0.5N)

### Classification transport

ONU: 1814  
Transport Hazard class: 8  
Packing group II



**Danger**

3.2/1B; H314  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

### Potassium hydroxide 0.5 mol/l (0.5N) > RPE-For analysis

RPE

Description .....Clear colourless liquid Assay (potentiometry).....0.4995 - 0.5005 N

Code	Size	Packaging	Notes
472337000	1l	Plastic bottle	
472332000	5l	Kubidos	
472331000	10l	Kubidos	

28,055 g of KOH. Volumetric solution ready-to-use : 0,5 N. 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	Normex	Plastic ampoule	

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

### Classification transport

ONU: 2924  
Transport Hazard class: 3  
Packing group II



**Danger**  
2.6/2; H225-3.2/1A; H314  
P210-P241-P304+P340-P305+P351+P338-P403+P235-P405-P501a

## ▶ 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	1l	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	1l	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

Code	Size	Packaging	Notes
472021000	1l	Plastic bottle	
472022000	1l	Glass bottle	

28,055 g of KOH. Volumetric solution ready-to-use : 0,5 N. Traceable to NIST.

## Potassium hydroxide 0.5 mol/l (0.5N) in methanol

### Classification transport

ONU: 3286  
Transport Hazard class: 3  
Packing group II



**Danger**  
2.6/2; H225-3.1.0/3; H301-3.1.D/3; H311-3.1.1/3; H331-3.8/1; H370-3.2/1A; H314  
P210-P241-P304+P340-P305+P351+P338-P307+P311-P403+P235-P405-P501a

## ▶ 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

Code	Size	Packaging	Notes
472366000	500ml	Plastic bottle	
472364000	1l	Glass bottle	
472367000	5l	Plastic tank	

28,055 g of KOH. Volumetric solution ready-to-use : 0,5 N. Traceable to NIST.

## Potassium hydroxide 0.46 mol/l (0.46N)

### Classification transport

ONU: 1814  
Transport Hazard class: 8  
Packing group II



**Danger**  
3.2/1B; H314  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

## ▶ 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	5l	Plastic tank	

# POT

## Potassium hydroxide 0.25 mol/l (0.25N)

### Classification transport

ONU: 1814  
Transport Hazard class: 8  
Packing group III



### Warning

3.2/2; H315-3.3/2; H319  
P280-P264-P305+P351+P338-P332+P313-P337+P313-P362

### Potassium hydroxide 0.25 mol/l (0.25N) > RPE-For analysis

RPE

Description .....Clear colourless liquid Assay (potentiometry).....0.2498 - 0.2503 N

Code	Size	Packaging	Notes
472427000	1l	Plastic bottle	
472422000	5l	Kubidos	
472421000	10l	Kubidos	

14,027 g of KOH. Volumetric solution ready-to-use : 0,25 N. Traceable to NIST.

## Potassium hydroxide 0.23 mol/l (0.23N)

### Classification transport

ONU: 1814  
Transport Hazard class: 8  
Packing group III



### Warning

3.2/2; H315-3.3/2; H319  
P280-P264-P305+P351+P338-P332+P313-P337+P313-P362

### 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	5l	Plastic tank	

## Potassium hydroxide 0.1 mol/l (0.1N)

### Classification transport

ONU: 1814  
Transport Hazard class: 8  
Packing group III



### Warning

3.2/2; H315-3.3/2; H319  
P280-P264-P305+P351+P338-P332+P313-P337+P313-P362

### 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	1l	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

Code	Size	Packaging	Notes
472457000	1l	Plastic bottle	
472452000	5l	Kubidos	
472451000	10l	Kubidos	

5,61 g of KOH. Volumetric solution ready-to-use : 0,1 N. 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	Normex	Plastic ampoule	

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

**Classification transport**

ONU: 3286  
 Transport Hazard class: 3  
 Packing group II



**Danger**

2.6/2; H225-3.1.O/3; H301-3.1.D/3; H311-3.1.I/3; H331-3.8/1; H370-3.2/2; H315-3.3/2; 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

Code	Size	Packaging	Notes
472486000	500ml	Plastic bottle	
472484000	1l	Glass bottle	

5,61 g of KOH. Volumetric solution ready-to-use : 0,1 N. Traceable to NIST.

## Potassium hydroxide 0.1 mol/l (0.1N) in ethanol

**Classification transport**

ONU: 2924  
 Transport Hazard class: 3  
 Packing group II



**Danger**

2.6/2; H225-3.2/2; H315-3.3/2; H319  
 P210-P241-P243-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	1l	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

Code	Size	Packaging	Notes
472041000	1l	Glass bottle	
472042000	1l	Plastic bottle	

5,61 g of KOH. Volumetric solution ready-to-use : 0,1 N. Traceable to NIST.

## Potassium iodate

KIO<sub>3</sub>  
 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**

2.14/2; H272  
 P210-P221-P280-P220-P370+P378a-P501a

► Potassium iodate > RPE-For analysis

RPE

Description .....White crystalline powder Loss on drying .....<=0.5 % Heavy metals (Pb) .....<=10 ppm  
 Identification.....Positive Chlorate .....<=100 ppm Assay (oxidimetric) .....99.0 - 101.0 %  
 pH sol. 5% at 25° C .....5.0 - 8.0 Iodide .....<=20 ppm

Code	Size	Packaging	Notes
472563	50g	Glass bottle	
472565	250g	Glass bottle	

## Potassium iodate 0.0167 mol/l (0.001N)

► Potassium iodate 0.0167 mol/l (0.001N) > RPE-NORMEX -For analysis

RPE

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

Code	Size	Packaging	Notes
472601	Normex	Glass ampoule	

3,567 g KIO<sub>3</sub>. Volumetric concentrated solution to prepare 1 L of solution 0.1 N

# POT

## Potassium iodate 0.00167 mol/l (0.01N)

### 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	Normex	Glass ampoule	

0,3567 g KIO<sub>3</sub>. Volumetric concentrated solution to prepare 1 L of solution 0.01 N

## Potassium iodide

KI  
Molecular Weight 166,01  
CAS : 7681-11-0  
EEC-N : 231-659-4



Danger

3.4.R/1; H334-3.8/3; H335-3.2/2; H315-3.3/2; H319-3.4.S/1; H317  
P261-P304+P340-P305+P351+P338-P342+P311-P405-P501a

### Potassium iodide > RS-For microanalysis

RS

Description .....White cryst. powder Identification.....Positive

Code	Size	Packaging	Notes
472821	100g	Glass bottle	

### Potassium iodide > RPE-For analysis-ACS

RPE

Description .....White or colourless solid Water-insoluble matter .....<= 50 ppm Sulphate .....<= 50 ppm Fe .....<= 3 ppm  
Identification .....Positive Chloride + bromide (Cl) .....<= 100 ppm Heavy metals (Pb) .....<= 5 ppm Mg .....<= 10 ppm  
pH sol. 5% at 25° C .....6.0 - 9.2 Iodate .....<= 3 ppm Ba .....<= 20 ppm Na .....<= 50 ppm  
Loss on drying at 150°C .....<= 0.2 % Phosphate .....<= 10 ppm Ca .....<= 20 ppm Assay (oxidimetric) .....>= 99.0 %

Code	Size	Packaging	Notes
472735	250g	Plastic bottle	
472737	1kg	Plastic bottle	
472736	25kg	Plastic bucket	

### Potassium iodide >

ERBAPharm

#### ERBAPharm-According to pharmacopoeia: Ph.Eur.-USP-FU-Ph.Franc.-BP-DAB

Description .....Powder or almost white, or colorless crystals Nitrat.nitrit.and NH<sub>4</sub>OH .....Conform USP-NF Sulphate .....<=150 ppm  
Identification .....Positive Thiosulfates and barium .....Conform USP-NF Fe .....<=20 ppm  
Appearance of solution .....Conform Ph.Eur. Loss on drying .....<=1.0 % Assay (oxidimetric) .....99.0 - 100.5 % s.s.  
Alcalinity .....Conform Ph.Eur. Iodate .....<=4 ppm  
Thiosulphate .....Conform Ph.Eur. Heavy metals (Pb) .....<=10 ppm

Code	Size	Packaging	Notes
362405	250g	Plastic bottle	
362407	1kg	Plastic bottle	
362403	10kg	Plastic bottle	
362402	25kg	Drum	

### Potassium iodide > RE-Pure

RE

Description .....White crystalline powder Water-insoluble matter .....<=100 ppm Fe .....<=20 ppm  
Identification .....Positive Iodate .....<=4 ppm Assay (oxidimetric) .....>= 99.0 % s.s.  
pH sol. 5% at 25° C .....7 - 9.5 Heavy metals (Pb) .....<=10 ppm  
Loss on drying .....<=0.5 % Sulphate .....<=150 ppm

Code	Size	Packaging	Notes
362465	25kg	Plastic bucket	

## Potassium iodide solution 10%

KI  
Molecular Weight 166,01  
CAS : 7681-11-0



Danger

3.4.R/1; H334-3.2/2; H315-3.3/2; H319-3.4.S/1; H317  
P261-P280-P285-P305+P351+P338-P342+P311-P501a

### 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	500ml	Glass bottle	

## Potassium iodide solution 3.9%

KI  
Molecular Weight 166,01  
CAS : 7681-11-0



**Danger**

3.4.R/1; H334-3.2/2; H315-3.3/2; H319-3.4.S/1; H317  
P261-P280-P285-P305+P351+P338-P342+P311-P501a

### Potassium iodide solution 3.9% > RPE-For analysis

**RPE**

Description.....Clear colourless liquid Identification.....Positive Assay.....3.7 - 4.1 % p/v

Code	Size	Packaging	Notes
472815000	250ml	Glass bottle	

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

## Potassium iodide solution

KI  
Molecular Weight 166,01  
CAS : 7681-11-0



**Danger**

3.4.R/1; H334-3.2/2; H315-3.3/2; H319-3.4.S/1; H317  
P261-P280-P285-P305+P351+P338-P342+P311-P501a

### Potassium iodide solution > RS-For analysis according to Ph. Eur. Chap. 4.1.1

**RS**

Code	Size	Packaging	Notes
611070504	100ml	Bottle	Solution saturated Ref Ph.Eur 1070504
611070502	1l	Bottle	Potassium iodide solution 166 g/l Ref Ph.Eur 1070502

Storage: protected from light

## Potassium iodobismuthate solution

### Classification transport

ONU: 3098  
Transport Hazard class: 3  
Packing group III



**Danger**

2.13/2; H272-3.4.R/1; H334-3.2/1A; H314-2.6/3; H226-3.4.S/1; H317  
P210-P221-P241-P304+P340-P305+P351+P338-P342+P311-P403+P235-P405-P501a

### Potassium iodobismuthate solution > RS-For analysis according to Ph. Eur. Chap. 4.1.1

**RS**

Code	Size	Packaging	Notes
611070600	100ml	Bottle	Ref Ph.Eur 1070600
611070602	100ml	Bottle	Potassium iodobismuthate solution R2 Ref Ph.Eur 1070602

## Potassium mercuric iodide solution

Molecular Weight 786,48  
CAS : 7783-33-7  
EEC-N : 231-990-4

### Classification transport

ONU: 3288  
Transport Hazard class: 6.1  
Packing group I



**Danger**

3.1.O/2; H300-3.1.D/1; H310-3.1.I/2; H330-3.9/2; H373-4.1.A/1; H400-4.1.C/1; H410  
P260-P271-P302+P350-P304+P340-P405-P501a

### Potassium mercuric iodide solution > RPE-For analysis

**RPE**

Description.....Yellow clear liquid Identification.....Positive Density at 15° C.....3.15 - 3.19

Code	Size	Packaging	Notes
472687	500ml	Plastic bottle	

# POT

## Potassium metabisulfite

Synonyms : Potassium pyrosulfite  
Potassium disulfite

$K_2S_2O_5$   
Molecular Weight 222,33  
CAS : 16731-55-8  
EEC-N : 240-795-3



**Warning**  
3.3/2; H319-3.8/3; H335-EUH031  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

### Potassium metabisulfite > ERBAPharm-According to pharmacopoeia: NF

ERBAPharm

Description.....White powder or pieces Heavy metals (Pb).....<=10 ppm Assay (SO<sub>2</sub>).....51.8 - 57.6 %  
Identification.....Positive Fe.....<=10 ppm

Code	Size	Packaging	Notes
362627	1kg	Plastic bottle	
362622	10kg	Plastic bottle	
362621	25kg	Drum	

## Potassium nitrate

$KNO_3$   
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**  
2.14/2; H272  
P210-P221-P280-P220-P370+P378a-P501a

### Potassium nitrate > RPE-For analysis-ISO-ACS-Reag.Ph.Eur.-Reag.USP

RPE

Description.....White crystalline powder Chloride.....<=20 ppm Sulphate.....<=30 ppm Mg.....<=20 ppm  
Identification.....Positive Phosphate.....<=5 ppm Heavy metals (Pb).....<=5 ppm Na.....<=50 ppm  
pH sol. 5% in H<sub>2</sub>O.....4.5 - 8.5 Iodate.....<=5 ppm Ca.....<=50 ppm Assay (acidimetric).....>=99.0 %  
Water-insoluble matter.....<=50 ppm Nitrite.....<=10 ppm Fe.....<=3 ppm

Code	Size	Packaging	Notes
473007	1kg	Plastic bottle	
473009	5kg	Plastic bottle	
473001	25kg	Bag	

### Potassium nitrate > RPE-For analysis

RPE

Description.....White crystalline powder Chloride.....<=20 ppm Sulphate.....<=30 ppm Mg.....<=20 ppm  
Identification.....Positive Phosphate.....<=5 ppm Heavy metals (Pb).....<=5 ppm Na.....<=100 ppm  
pH sol. 5% in H<sub>2</sub>O.....4.5 - 8.5 Iodate.....<=5 ppm Ca.....<=50 ppm Assay (acidimetric).....>=99.0 %  
Water-insoluble matter.....<=50 ppm Nitrite.....<=10 ppm Fe.....<=3 ppm

Code	Size	Packaging	Notes
473011	25kg	Drum	

### Potassium nitrate > ERBAPharm-According to pharmacopoeia: BP-Ph.Eur.

ERBAPharm

Description.....White crystalline powder Reducing substances.....Conform Ph.Eur. Ca.....<= 100 ppm Assay (acidimetric).....99.0 - 101.0 % s.s.  
Identification.....Positive Ammonium.....<= 100 ppm Fe.....<= 20 ppm Na.....<= 100 ppm  
Appearance of solution.....Conform Ph.Eur. Heavy metals (Pb).....<= 10 ppm Na.....<= 0.10 %  
Acidity or alkalinity.....Conform Ph.Eur. Sulphate.....<= 150 ppm Loss on drying.....<= 0.5 %

Code	Size	Packaging	Notes
363007	1kg	Plastic bottle	
363009	5kg	Plastic bottle	
363002	25kg	Drum	

## Potassium nitrate 1 mol/l (1N)

### 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	250ml	Plastic bottle	

## Potassium nitrite

KNO<sub>2</sub>  
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**  
2.14/2; H272-3.1.O/3; H301-4.1.A/1; H400  
P210-P221-P280-P301+P310-P405-P501a

### Potassium nitrite > RPE-For analysis

RPE

Description ..... Yellowish crystals Sulphate ..... <= 200 ppm Pb ..... <= 5 ppm  
Identification ..... Positive As ..... <= 1 ppm Assay ..... >= 97 %  
Chloride ..... <= 100 ppm Fe ..... <= 10 ppm

Code	Size	Packaging	Notes
473084	100g	Glass bottle	

## Potassium oxalate monohydrate

(COOK)<sub>2</sub>.H<sub>2</sub>O  
Molecular Weight 184  
CAS : 6487-48-5  
EEC-N : 209-506-8

**Warning**  
3.1.O/4; H302-3.1.D/4; H312  
P280-P312-P330-P363-P301+P312-P501a

### Potassium oxalate monohydrate > RPE-For analysis-ACS

RPE

Description ..... White crystalline powder Ready carbonizable substances ..... Conform Chloride ..... <=20 ppm Fe ..... <=10 ppm  
Identification ..... Positive Water-insoluble matter ..... <=100 ppm Sulphate ..... <=100 ppm Na ..... <=200 ppm  
Neutrality ..... Conform Ammonium ..... <=20 ppm Heavy metals (Pb) ..... <=20 ppm Assay (oxidimetric) ..... 98.5 - 101.0 %

Code	Size	Packaging	Notes
473135	250g	Plastic bottle	
473137	1kg	Plastic bottle	
473133	25kg	Plastic bucket	

## Potassium periodate

KIO<sub>4</sub>  
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**  
2.14/2; H272  
P210-P221-P280-P220-P370+P378a-P501a

### Potassium periodate > RPE-For analysis-Reag. Ph. Eur.

RPE

Description ..... White crystalline powder Mn ..... <= 1 ppm  
Identification ..... Positive Assay (iodometric) ..... >= 99.5 %

Code	Size	Packaging	Notes
473332	25g	Glass bottle	
473334	100g	Glass bottle	

## Potassium permanganate

KMnO<sub>4</sub>  
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**  
2.14/2; H272-4.1.A/1; H400-4.1.C/1; H410-3.1.O/4; H302  
P210-P221-P280-P220-P330-P501a

### Potassium permanganate > RS-For environmental analysis-ACS

RS

Description ..... Dark violet crystals Water-insoluble matter ..... <= 0.2 % Assay (oxidimetric) ..... >= 99.0 %  
Identification ..... Positive Sulphate ..... <= 200 ppm  
Chloride & Chlorate(Cl) ..... <= 50 ppm Hg ..... <= 0.05 ppm

Code	Size	Packaging	Notes
476671	100g	Glass bottle	

Low content in Hg

# POT

## Potassium permanganate > RPE-For analysis-ACS-Reag.Ph.Eur.-Reag.USP

**RPE**

Description .....Dark violet crystals      Water-insoluble matter .....<= 0.2 %      Appearance of solution .....Conform Ph.Eur.  
Identification .....Positive      Sulphate .....<= 200 ppm  
Chloride & Chlorate(Cl) .....<= 50 ppm      Assay (oxidimetric) .....99.0 - 100.5 %

Code	Size	Packaging	Notes
473385	250g	Plastic bottle	
473387	1kg	Plastic bottle	
473381	25kg	Metal bucket	

## Potassium permanganate > ERBAPharm-According to pharmacopoeia: Ph.Eur.-USP-FU-Ph.Franc.-BP-DAB

**ERBAPharm**

Description .....Dark-violet crystals      Loss on drying .....<= 0.5 %      Sulphate .....<= 500 ppm  
Identification .....Positive      Water not sol. matter .....<= 0.2 %      Assay (oxidimetric) .....99.0 - 100.5 %  
Appearance of solution .....Conform Ph.Eur.      Chloride .....<= 200 ppm

Code	Size	Packaging	Notes
363107	1kg	Plastic bottle	
363109	5kg	Plastic bottle	
363101	25kg	Metal bucket	

## Potassium permanganate 0.2 mol/l (1N)

**Classification transport**

ONU: 3082  
Transport Hazard class: 9  
Packing group II



4.1.C/2; 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

Code	Size	Packaging	Notes
473514000	1l	Glass bottle	

3,1606 g of  $KMnO_4$ . Volumetric solution ready-to-use : 0,1 N. Traceable to NIST.

## Potassium permanganate 0.02 mol/l (0.1N)

4.1.C/3; H412  
P273-P501a

## 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	100ml	Bottle	Ref Ph.Eur 3005300
613005309	250ml	Bottle	Ref Ph.Eur 3005300
613005300	1l	Bottle	Ref Ph.Eur 3005300

Storage: protected from light

## Potassium permanganate 0.02 mol/l (0.1N) > RPE-For analysis

**RPE**

Description .....Purple clear liquid      Assay (potentiometry) .....0.0998 - 0.1002 N

Code	Size	Packaging	Notes
473567000	1l	Glass bottle	
473565000	5l	Kubidos	

3,1606 g of  $KMnO_4$ . Volumetric solution ready-to-use : 0,1 N. 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	Normex	Glass ampoule	

3,161 g  $KMnO_4$ . Volumetric concentrated solution to prepare 1 L of solution 0.1 N

## Potassium permanganate 0.002 mol/l (0.01N)

## 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	Normex	Glass ampoule	

0,3161 g  $KMnO_4$ . Volumetric concentrated solution to prepare 1 L of solution 0.01 N

## Potassium permanganate solution 3%

### Classification transport

ONU: 3082  
Transport Hazard class: 9  
Packing group II



4.1.C/2; 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	1l	Bottle	Ref Ph.Eur 1070902

## Potassium permanganate and phosphoric acid solution

## Potassium permanganate and phosphoric acid solution > RS-For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611070901	100ml	Bottle	Ref Ph.Eur 1070901

## Potassium persulfate

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**

3.4.R/1; H334-2.14/3; H272-3.1.0/4; H302-3.8/3; H335-3.2/2; H315-3.3/2; H319-3.4.S/1; H317  
P210-P221-P304+P340-P305+P351+P338-P342+P311-P405-P501a

## 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	1kg	Plastic bottle	

# POT

## Potassium phosphate dibasic anhydrous

Synonyms : *Dipotassium hydrogenphosphate*  
*Dipotassium phosphate*

$K_2HPO_4$   
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 H<sub>2</sub>O ..... 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 (potentiometric) ..... ≥98.0 %

Code	Size	Packaging	Notes
471786	500g	Plastic bottle	
471787	1kg	Plastic bottle	
471782	5kg	Plastic bottle	
471788	25kg	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	1kg	Plastic bottle	
361752	5kg	Plastic bottle	
361751	25kg	Drum	

## Potassium phosphate dibasic trihydrate

$K_2HPO_4 \cdot 3H_2O$   
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 H<sub>2</sub>O ..... 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-aqueous medium) ..... ≥99.0 %  
Ni ..... ≤30 ppm  
Pb ..... ≤30 ppm

Code	Size	Packaging	Notes
471767	1kg	Plastic bottle	
471761	25kg	Bag	

## Potassium phosphate monobasic

Synonym : *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 H<sub>2</sub>O ..... 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 (potentiometric) ..... 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
471686	500g	Plastic bottle	
471687	1kg	Plastic bottle	
471682	5kg	Plastic bottle	
471681	25kg	Bag	

## Potassium phosphate monobasic > ERBAPharm-According to pharmacopoeia: NF

Description .....	White crystalline powder	Fluoride .....	<=10 ppm	Pb .....	<=5 ppm
Identification .....	Positive	Heavy metals (Pb) .....	<=20 ppm	Assay .....	98.0 - 100.5 % s.s.
Organic volatile impurities .....	Conform USP-NF	Not soluble matter .....	<=0.2 %	Origin (BSE/TSE) .....	Synthesis
Loss on drying .....	<=1.0 %	As .....	<=3 ppm	Residual solvents (CPMP/ICH/283/95) .....	Conform

Code	Size	Packaging	Notes
361507	1kg	Plastic bottle	
361509	5kg	Plastic bottle	
361503	25kg	Plastic bucket	

## Potassium phosphate monobasic 0.2 mol/l (0.2N)

### 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	1l	Bottle	Ref Ph.Eur 1069601

## Potassium pyroantimonate acid

 Synonyms : 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**  
 3.1.O/4; H302-3.1.I/4; H332-4.1.C/2; H411  
 P261-P271-P304+P340-P312-P330-P501a

### Potassium pyroantimonate acid > RPE-For analysis


**RPE**

Description .....	White powder	Water-insoluble matter .....	<= 100 ppm	Assay (oxidimetric) .....	>= 94 %
Identification .....	Positive	Sodium sensitivity .....	~ 2.5 µg/ml		

Code	Size	Packaging	Notes
473835	250g	Plastic bottle	

## Potassium pyroantimonate solution

**Classification transport**  
 ONU: 1760

 **Warning**  
 3.2/2; H315-3.3/2; H319  
 P280-P264-P305+P351+P338-P332+P313-P337+P313-P362


### Potassium pyroantimonate solution > RS-For analysis according to Ph. Eur. Chap. 4.1.1

**RS**

Code	Size	Packaging	Notes
611071303	100ml	Bottle	Ref Ph.Eur 1071300
611071309	250ml	Bottle	Ref Ph.Eur 1071301

## Potassium pyrogallate solution 14%

**Classification transport**  
 ONU: 3266  
 Transport Hazard class: 8  
 Packing group II

 **Danger**  
 3.2/1A; H314-3.5/2; H341-3.1.O/4; H302  
 P260-P280-P304+P340-P305+P351+P338-P405-P501a

### Potassium pyrogallate solution 14% > RS-For gaz analysis according to Orsat

**RS**

Description .....	Brown liquid	Identification .....	Positive	Density at 20° C .....	1.53 - 1.55
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Code	Size	Packaging	Notes
E473961	250ml	Glass bottle	
E473962	1l	Glass bottle	

# POT

## tetra-Potassium pyrophosphate

Synonyms : Potassium diphosphate tetrabasic  
Tetrapotassium diphosphate

$K_4P_2O_7$   
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	250g	Plastic bottle	
473917	1kg	Plastic bottle	

## Potassium pyrosulphate

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

3.2/1B; H314  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

### 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 % (H<sub>2</sub>SO<sub>4</sub>)  
Ca.....<= 20 ppm  
Mg.....<= 10 ppm  
Water-insoluble matter.....<= 100 ppm

Code	Size	Packaging	Notes
474017	1kg	Plastic bottle	

## Potassium sodium tartrate tetrahydrate

Synonyms : Rochelle salt  
(+)-Tartaric acid potassium Sodium salt

$C_4H_4O_6KNa \cdot 4H_2O$   
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-aqueous medium).....99.0 - 102.0 %

Code	Size	Packaging	Notes
474117	1kg	Plastic bottle	
474119	5kg	Plastic bottle	
474112	25kg	Drum	
474114	50kg	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	1kg	Plastic bottle	
363459	5kg	Plastic bottle	
363454	50kg	Plastic bucket	

## Potassium sorbate

CH<sub>3</sub>(CH:CH)<sub>2</sub>COOK  
Molecular Weight 150,22  
CAS : 24634-61-5  
EEC-N : 246-376-1



**Warning**

3.3/2; H319  
P280-P264-P305+P351+P338-P337+P313

### Potassium sorbate > RE-Pure

**RE**

Description.....Ivory powder Aldehydes(Formaldehyde).....<=0.1 % Zn.....<=25 ppm  
Identification.....Positive Cu + Zn.....<=50 ppm Assay (non-aqueous medium).....>=99 % s s  
M.p. extr. Sorbic acid.....133 - 135 ° C As.....<=3 ppm  
Loss on drying in vacuo.....<=1 % Pb.....<=10 ppm

Code	Size	Packaging	Notes
363884	1kg	Plastic bottle	

## Potassium sulfate

K<sub>2</sub>SO<sub>4</sub>  
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	250g	Plastic bottle	

### Potassium sulfate > RPE-For analysis-ISO-ACS-Reag.Ph.Eur.-Reag.USP

**RPE**

Description.....White crystals Total nitrogen.....<=5 ppm Heavy metals (Pb).....<=5 ppm Assay (acidimetric).....>=99.0 %  
Identification.....Positive Chloride.....<=10 ppm Fe.....<=5 ppm Ca.....<=100 ppm  
pH sol. 5% in H<sub>2</sub>O.....5.5 - 8.5 Water-insoluble matter.....<=100 ppm Na.....<=200 ppm Mg.....<=50 ppm

Code	Size	Packaging	Notes
474167	1kg	Plastic bottle	
474169	5kg	Plastic bottle	

### Potassium sulfate > RE-Pure

**RE**

Description.....White crystalline powder Chloride.....<=40 ppm Ca.....<=200 ppm  
Identification.....Positive Heavy metals (Pb).....<=20 ppm Fe.....<=10 ppm  
Loss on ignition.....<=1 % As.....<=2 ppm Assay (gravimetric).....>=99 %

Code	Size	Packaging	Notes
363607	1kg	Plastic bottle	
363602	25kg	Drum	

## Potassium tartrate hemihydrate

(CHOHCOOK)<sub>2</sub>.1/2H<sub>2</sub>O  
Molecular Weight 235,28  
CAS : 921-53-9  
EEC-N : 213-067-8

### Potassium tartrate hemihydrate > RPE-For analysis

**RPE**

Description.....White crystals Phosphate.....<= 5 ppm Ca.....<= 50 ppm Pb.....<= 2 ppm  
Identification.....Positive Water-insoluble matter.....<= 50 ppm Cu.....<= 2 ppm Zn.....<= 2 ppm  
pH sol. 5% at 25° C.....7.0 - 9.0 Heavy metals (Pb).....<= 5 ppm Fe.....<= 5 ppm Assay (non-aqueous medium).....>= 99 %  
Ammonium.....<= 10 ppm Sulphate.....<= 50 ppm Na.....<= 200 ppm  
Chloride.....<= 10 ppm As.....<= 0.4 ppm Ni.....<= 2 ppm

Code	Size	Packaging	Notes
474465	250g	Plastic bottle	
474467	1kg	Plastic bottle	

# POT

## Potassium L-tartrate monobasic

Synonyms : Potassium hydrogen tartrate  
Potassium bitartrate

COOK(CHOH)<sub>2</sub>COOH  
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 %  
Specific optical rotation at 20°C (c=10; NaOH 1N) .....+32 - +33 °  
Chloride .....<= 200 ppm  
Heavy metals (Pb) .....<= 10 ppm  
Sulphate .....<= 100 ppm  
As .....<= 1 ppm  
Assay (non-aqueous medium) .....>= 98.5 %

Code	Size	Packaging	Notes
474515	250g	Plastic bottle	
474517	1kg	Plastic bottle	

### Potassium L-tartrate monobasic > RE-Pure

RE

Description .....White crystalline powder  
Identification .....Positive  
Loss on drying .....<=0.5 %  
Ac. tartaric free .....<=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	1kg	Plastic bottle	
363902	25kg	Drum	

## Potassium tellurite

K<sub>2</sub>TeO<sub>3</sub>.nH<sub>2</sub>O  
Molecular Weight 253,8  
CAS : 7790-58-1  
EEC-N : 232-213-1

**Classification transport**  
ONU: 3284  
Transport Hazard class: 6.1  
Packing group II



**Danger**  
3.1.O/3; H301  
P264-P270-P301+P310-P330-P405-P501a

### Potassium tellurite > RE-Pure

RE

Description .....Yellowish crystals  
Identification .....Positive  
Assay (oxidimetric) .....>=95 %

Code	Size	Packaging	Notes
474652	25g	Glass bottle	

## Potassium tetraiodomercurate solution, alkaline

CAS : 7681-11-0

**Classification transport**  
ONU: 3289  
Transport Hazard class: 6.1  
Packing group I



**Danger**  
3.1.O/2; H300-3.1.D/1; H310-3.1.I/2; H330-3.2/1A; H314-3.9/2; H373-4.1.A/1; H400-4.1.C/1; H410  
P260-P302+P350-P304+P340-P305+P351+P338-P405-P501a

### Potassium tetraiodomercurate solution, alkaline > RS-For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611071600	2x100ml	Bottle	Ref Ph.Eur 1071600

## Potassium thiocyanate

Synonym : Potassium rhodanide

KSCN  
Molecular Weight 97,18  
CAS : 333-20-0  
EEC-N : 206-370-1



**Warning**  
3.1.O/4; H302-EUH032  
P264-P270-P330-P301+P312-P501a

### Potassium thiocyanate > RPE-For analysis-ACS-Reag.Ph.Eur.-Reag.USB

RPE

Description .....White crystals  
Identification .....Positive  
pH sol. 5% at 25° C .....5.3 - 8.7  
Water-insoluble matter .....<=50 ppm  
Reducing iodine .....Conform ACS  
Ammonium .....<=30 ppm  
Chloride .....<=50 ppm  
Sulphate .....<=50 ppm  
Heavy metals (Pb) .....<=5 ppm  
Fe .....<=2 ppm  
Na .....<=50 ppm  
Assay (argentimetric) .....>=99.0 %

Code	Size	Packaging	Notes
474355	250g	Plastic bottle	
474357	1kg	Plastic bottle	

## Potassium thiocyanate > RE-Pure

RE

Description .....White crystalline powder Chloride .....<= 500 ppm Fe.....<= 20 ppm  
 Identification.....Positive Heavy metals (Pb).....<= 20 ppm Assay (argentimetric).....>= 98 %  
 pH sol. 5% at 20°C.....5.0 - 8.7 Sulphate .....<= 0.1 %

Code	Size	Packaging	Notes
363756	500g	Plastic bottle	
363752	25kg	Drum	

## Potassium thiocyanate 0.1 mol/l (0.1N)

### 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	1l	Glass bottle	

9,718 g of KSCN. Volumetric solution ready-to-use : 0,1 N. Stabilized with p-oxybenzoate.

## Potassium thiocyanate solution 5%

### 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	1l	Glass bottle	

Stabilized with methyle p-hydroxybenzoate and n-Propyle p-hydroxybenzoate.

## Potassium thiocyanate solution

### Potassium thiocyanate solution > RS-For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611071801	1l	Bottle	A 97 g/l solution Ref Ph.Eur 1071801

## Praseodymium standard solution

### Praseodymium standard solution > RS-Standard for ICP-MS

RS

Code	Size	Packaging	Notes
505781	50ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505782	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505785	100ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid

### Praseodymium standard solution > RS-Standard for ICP

RS

Code	Size	Packaging	Notes
503821	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503825	100ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
503823	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503827	500ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

## Primary opalescent suspension



**Danger**

3.6/1A; H350-3.4.S/1; H317-A26  
P261-P280-P308+P313-P363-P405-P501a

### Primary opalescent suspension >

RS-For analysis according to USP-Ph. Eur. Chap. 2.2.1

RS

Code	Size	Packaging	Notes
612201100	100ml	Glass bottle	Formazin suspension

## Primary solutions for degree of coloration of liquids

### 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	100ml	Bottle	Yellow primary solution
612202200	100ml	Bottle	Red primary solution
612202300	100ml	Bottle	Blue primary solution

### Primary solutions for degree of coloration of liquids >

RS-For analysis according to USP

RS

Code	Size	Packaging	Notes
612002100	100ml	Bottle	Yellow primary solution
612002200	100ml	Bottle	Red primary solution
612002300	100ml	Bottle	Blue primary solution

## L(-)Proline

Synonym : (S)-Pyrrolidine-2-carboxylic acid

NH(CH<sub>2</sub>)<sub>3</sub>CHCOOH  
Molecular Weight 115,13  
CAS : 147-85-3  
EEC-N : 205-702-2

### L(-)Proline > RPE-For analysis

RPE

Description	White crystalline powder	Ammonium	<= 200 ppm	As	<= 1 ppm
Identification	Positive	Chloride	<= 200 ppm	Fe	<= 10 ppm
Specific optical rotation at 20°C (C=4; H <sub>2</sub> O)	-86.8 - -84.5 °	Heavy metals (Pb)	<= 10 ppm	other aminoacids (TLC)	<= 0.5 %
pH 2.5% at 25° C	5.5 - 7	Sulphate	<= 200 ppm	Transmittance at 430 nm (C=10; H <sub>2</sub> O)	>= 95 %
Loss on drying	<= 0.3 %	Sulphated ash	<= 0.1 %	Assay (non-aqueous medium)	99.0 - 101.0 %

Code	Size	Packaging	Notes
474708	5g	Glass bottle	

## Propan-1-ol

CH<sub>3</sub>CH<sub>2</sub>CH<sub>2</sub>OH  
Molecular Weight 60,097  
CAS : 71-23-8  
EEC-N : 200-746-9

### Classification transport

ONU: 1274  
Transport Hazard class: 3  
Packing group II



**Danger**

2.6/2; H225-3.3/1; H318-3.8/3; H336  
P210-P241-P304+P340-P305+P351+P338-P403+P235-P405-P501a

### Propan-1-ol > RS-For HPLC Isocratic

RS

Description	Clear colourless liquid	Boiling point	96.9 - 97.4 °C	Assay (GLC)	>=99.5 %	At 240 nm	>=79 %
Identification	Positive	Acidity or alkalinity	<=0.00015 meq/g	<b>U.V. Transmittance</b>		At 250 nm	>=89 %
Density at 20° C	0.803 - 0.805	Water (K.F.)	<=500 ppm	At 220 nm	>=20 %	At 270 nm	>=96 %
Refractive index at 20°C	1.3840 - 1.3860	Residue on evaporation	<=10 ppm	At 230 nm	>=56 %	At 290 nm	>=98 %

Code	Size	Packaging	Notes
412542000	2,5l	Glass bottle	

Filtered through 0.2 µm membrane



## ▶ Propan-1-ol &gt; RS-Anhydrous-For analysis

RS

Refractive index at 20°C .....1.384 - 1.386 Non volatile residue .....<= 10 mg/Kg Assay (GC) .....>= 99.5 %  
 Water content (K.F.) .....<= 300 mg/Kg Colour .....<= 10 Hazen Free acid (as CH<sub>3</sub>COOH) .....<= 0.03 % m/m

Code	Size	Packaging	Notes
P0941021	2,5l	Glass bottle	
P0941049	25l	Plastic tank	

## ▶ Propan-1-ol &gt; RPE-For analysis-Reag. Ph. Eur.

RPE

Description .....Clear liquid Refractive index at 20°C .....1.3840 - 1.3860 Residue on evaporation .....<= 5 ppm  
 Identification (I.R.) .....Conform Boiling point .....96 - 98 °C Acidity (acetic acid) .....<= 0.03 %  
 Colour .....<= 10 APHA Distillation range .....96 - 99 °C Assay (GLC) .....>= 99.5 %  
 Density at 20° C .....0.803 - 0.805 Water (K.F.) .....<= 1000 ppm

Code	Size	Packaging	Notes
415104	1l	Glass bottle	
415102	2,5l	Glass bottle	
415108	10l	Plastic tank	
415106	25l	Aluminium can	

## ▶ Propan-1-ol &gt; RE-Pure

RE



Description .....Clear liquid Refractive index at 20°C .....1.3830 - 1.3870 Assay (GLC) .....>=99 %  
 Identification .....Positive Water (K.F.) .....<=0.5 % Colour .....<= 10 APHA  
 Density at 20° C .....0.802 - 0.806 Residue on evaporation .....<= 50 ppm

Code	Size	Packaging	Notes
309351	1l	Glass bottle	
309352	2,5l	Glass bottle	
309354	5l	Plastic tank	
309353	25l	Plastic tank	
309358	165kg	Metal drum	

## Propan-2-ol

C<sub>3</sub>H<sub>8</sub>O  
 Molecular Weight 60,097  
 CAS : 67-63-0  
 EEC-N : 200-661-7

**Classification transport**  
 ONU: 1219  
 Transport Hazard class: 3  
 Packing group II

  **Danger**  
 2.6/2; H225-3.3/2; H319-3.8/3; H336  
 P210-P241-P304+P340-P305+P351+P338-P403+P235-P405-P501a

## ▶ Propan-2-ol &gt; RS-For LC/MS

RS

Description .....Clear colourless liquid Assay (CPG) .....>= 99.95 % Sensitive Impurities (reserpine) .....<= 100 ppb  
 Colour .....<= 10 APHA **Transmittance** At 220 nm .....>= 64 % **Metals compounds**  
 Identification (I.R.) .....Positive At 230 nm .....>= 80 % Al .....<= 50 ppb  
 Refractive index at 20°C .....1.375 - 1.379 At 260 nm .....>= 98.5 % Fe .....<= 50 ppb  
 Water (K.F.) .....<= 200 ppm **HPLC Gradient** At 254 nm .....<= 2 mAU Na .....<= 50 ppb  
 Residue on evaporation .....<= 2 ppm At 220 nm .....>= 63 % Ca .....<= 50 ppb  
 Acidity (acetic acid) .....<= 0.0010 % At 230 nm .....>= 79 % Mg .....<= 50 ppb  
 Alkalinity (NH<sub>3</sub>) .....<= 0.0005 % **Test LC-MS TIC (50-2000m/z) ES I(+)** K .....<= 50 ppb

Code	Size	Packaging	Notes
415183	1l	Glass bottle	

## ▶ Propan-2-ol &gt; RS-For HPLC PLUS-Gradient

RS

Description .....Clear colourless liquid Acidity or alkalinity .....<=0.0001 meq/g At 254 nm .....<=2 ppb At 240 nm .....>=89 %  
 Identification .....Positive Water (K.F.) .....<=0.1 % At 365 nm .....<=2 ppb At 250 nm .....>=96 %  
 Density at 20° C .....0.784 - 0.786 Residue on evaporation .....<=2 ppm **U.V. Transmittance** At 260 nm .....>=98 %  
 Refractive index at 20°C .....1.3766 - 1.3786 Assay (GLC) .....>=99.5 % At 220 nm .....>=63 % At 270 nm .....>=99 %  
 Boiling point .....82.1 - 82.6 °C **Fluorescence** At 230 nm .....>=79 %

Code	Size	Packaging	Notes
412711000	1l	Glass bottle	
412712000	2,5l	Glass bottle	

Filtered through 0.2 µm membrane

Product specifications are subject to changes.  
 Please visit our website for updates.

## Propan-2-ol > RS-For HPLC Isocratic-ACS-Reag.Ph.Eur-Reag.USP

RS

Appearance.....Clear liquid	Residue after evaporation.....<= 5 ppm	At 275 nm.....<= 0.03 AU
Identification.....Positive	Water (H2O).....<= 500 ppm	At 300 nm.....<= 0.02 AU
Colour.....<= 10 APHA	Titration acid or base.....<= 0.0001 meq/g	from 400 to 330 nm.....<= 0.01 AU
Solubility in water.....Passes test	Assay (GLC).....>= 99.9 %	<b>U.V. Transmittance</b>
Miscibility in alcohol.....Passes test	<b>Absorbance UV (ACS - USP)</b>	At 210 nm.....>= 30 %
Miscibility in water.....Passes test	At 210 nm.....<= 1.00 AU	At 220 nm.....>= 55 %
Boiling point.....82.05 - 82.55 °C	At 220 nm.....<= 0.40 AU	At 230 nm.....>= 79 %
Density at 20°C.....0.784 - 0.786	At 230 nm.....<= 0.20 AU	At 250 nm.....>= 95 %
Density at 20°C.....1.3766 - 1.3786	At 245 nm.....<= 0.08 AU	At 260 nm.....>= 98 %
Refractive index at 20°C.....1.3766 - 1.3786	At 260 nm.....<= 0.04 AU	<b>Filtered at 0.2 µm</b>
Carbonyl comp. (propionald. and acetone).....<= 20 ppm		

Code	Size	Packaging	Notes
412821	1l	Glass bottle	
525161	2,5l	Glass bottle	

## Propan-2-ol > RS-For HPLC Isocratic

RS

Description.....Clear colourless liquid	Acidity or alkalinity.....<=0.0001 meq/g	At 210 nm.....>= 20 %	At 260 nm.....>=98 %
Identification.....Positive	Water (K.F.).....<=0.1 %	At 220 nm.....>=63 %	At 270 nm.....>=99 %
Density at 20° C.....0.784 - 0.786	Residue on evaporation.....<=2 ppm	At 230 nm.....>=79 %	
Refractive index at 20°C.....1.3766 - 1.3786	Assay (GLC).....>=99.9 %	At 240 nm.....>=89 %	
Boiling point.....82.1 - 82.6 °C	<b>U.V. Transmittance</b>	At 250 nm.....>=96 %	

Code	Size	Packaging	Notes
412421000	1l	Glass bottle	
412422000	2,5l	Glass bottle	

Filtered through 0.2 µm membrane

## Propan-2-ol > RS-For HPLC preparative

RS

Description.....Clear colourless liquid	Refractive index at 20°C.....1.3766 - 1.3786	Residue on evaporation.....<=5 ppm	<b>U.V. Transmittance</b>
Identification.....Positive	Boiling point.....82.1 - 82.6 °C	Alcalinity (NH3).....<=0.0002 meq/g	At 220 nm.....>=50 %
Density at 20° C.....0.784 - 0.786	Water (K.F.).....<=500 ppm	Assay (GLC).....>=99.5 %	At 255 nm.....>=98 %

Code	Size	Packaging	Notes
415112	2,5l	Glass bottle	

## Propan-2-ol > RS-SPECTROSOL - For optical spectroscopy

RS

Description.....Clear liquid	Boiling point.....82.1 - 82.6 °C	Assay (GLC).....>=99.8 %	At 205 nm.....>=10 %
Colour.....<=10 APHA	Water (K.F.).....<=500 ppm	<b>Fluorescence</b>	At 215 nm.....>=50 %
Identification.....Positive	Residue on evaporation.....<=5 ppm	At 254 nm.....<=2 ppb	At 230 nm.....>=80 %
Density at 20° C.....0.784 - 0.786	Acidity.....<=0.0005 meq/g	At 365 nm.....<=2 ppb	At 250 nm.....>=95 %
Refractive index at 20°C.....1.3766 - 1.3786	Alcalinity.....<=0.0002 meq/g	<b>U.V. Transmittance</b>	At 260 nm.....>=98 %

Code	Size	Packaging	Notes
415213	1l	Glass bottle	

## Propan-2-ol > RS-Anhydrous-For analysis

RS

Refractive index at 20°C.....1.375 - 1.379	Non volatile residue.....<= 10 mg/Kg	Assay (GC).....>= 99.8 %
Water content (K.F.).....<= 300 mg/Kg	Colour.....<= 10 Hazen	Free acid (as CH3COOH).....<= 10 mg/Kg

Code	Size	Packaging	Notes
P0951010	200ml	Bottle with sept	
P0951016	1l	Glass bottle	

## Propan-2-ol > RS-VLSI For electronic use

RS

Code	Size	Packaging	Notes
527690	2,5l	Glass bottle	
527691	30l	Plastic tank	

## Propan-2-ol > RS-RSE For electronic use

RS

Description.....Clear liquid	Chloride.....<=0.2 ppm	Ca.....<=0.2 ppm	Na.....<=0.5 ppm
Colour.....<=10 APHA	Total phosphorus.....<=0.1 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
Assay (GLC).....>=99.7 %	Total sulphur.....<=1 ppm	Cu.....<=0.01 ppm	Sb.....<=0.01 ppm
Resistivity.....>=10 Mohm.cm	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
Aldehydes - ketones.....<=50 ppm	Bi.....<=0.02 ppm	Mo.....<=0.05 ppm	

Code	Size	Packaging	Notes
415237	1l	Glass bottle	
415235	2,5l	Glass bottle	
415231	5l	Metal tank	
415238	5l	Plastic bottle	
415236	27l	Metal tank	
415233	200l	Metal drum	

## ► Propan-2-ol &gt; RS-MOS- For electronic use

RS

Description .....	Clear liquid	Chloride .....	<=0.2 ppm	Ca .....	<=0.2 ppm	Na .....	<=0.5 ppm
Colour .....	<=10 APHA	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	Lj .....	<=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
Aldehydes - ketones .....	<=50 ppm	Bi .....	<=0.02 ppm	Mo .....	<=0.05 ppm		

Code	Size	Packaging	Notes
415161	2,5l	Glass bottle	

## ► Propan-2-ol &gt; RPE-For analysis-ACS-Reag.Ph.Eur.-Reag.USP

RPE

Description .....	Clear liquid	Carbonyl compounds (acetone) .....	<= 20 ppm	Cr .....	<= 0.01 ppm
Colour .....	<= 10 APHA	Carbonyl compounds (propionaldehyde) .....	<= 20 ppm	Cu .....	<= 0.01 ppm
Identification (I.R.) .....	Conform	Subst. reducing KMnO4 .....	<= 5 ppm	Fe .....	<= 0.1 ppm
Water miscibility .....	Conform	Heavy metals (Pb) .....	<= 1 ppm	Mg .....	<= 0.1 ppm
Density at 20° C .....	0.785 - 0.789	Al .....	<= 0.5 ppm	Mn .....	<= 0.01 ppm
Refractive index at 20°C .....	1.3766 - 1.3786	B .....	<= 0.02 ppm	Ni .....	<= 0.01 ppm
Boiling point .....	82.1 - 82.6 ° C	Ba .....	<= 0.5 ppm	Pb .....	<= 0.01 ppm
Water (K.F.) .....	<= 0.1 %	Ca .....	<= 0.5 ppm	Zn .....	<= 0.01 ppm
Residue on evaporation .....	<= 10 ppm	Cd .....	<= 0.01 ppm	Assay (GLC) .....	>= 99.9 %
Acidity or alkalinity .....	<= 0.0001 meq/g	Co .....	<= 0.01 ppm		

Code	Size	Packaging	Notes
415154	1l	Glass bottle	
415156	2,5l	Glass bottle	
415158	2,5l	Plastic bottle	
415173	5l	Plastic bottle	
529174	5l	Plastic tank	
415153	10l	Plastic tank	
415157	25l	Aluminium can	
524170	25l	Plastic tank	
415152	200l	Metal drum	

## ► Propan-2-ol &gt; ERBAPharm-According to pharmacopoeia: Ph.Eur.-USP-Ph.Franc.-BP

ERBAPharm

Description .....	Clear colourless liquid	Density at 20°C .....	0.785 - 0.789	Benzene .....	<=2 ppm
Identification .....	Positive	Density at 25° C .....	0.783 - 0.787	Related compounds .....	<=0.3 %
Appearance of solution .....	Conform Ph.Eur.	Refractive index at 20°C .....	1.376 - 1.378	Origin (BSE/TSE) .....	Synthesis
Acidity or alkalinity .....	Conform Ph.Eur.	Water (K.F.) .....	<=0.1 %	Residual solvents (CPMP/ICH/283/95) .....	Conform
Peroxide .....	Conform Ph.Eur.	Non volat.substances .....	<=20 ppm		
Absorbance .....	Conform Ph.Eur.	Assay (GLC) .....	>=99.9 %		

Code	Size	Packaging	Notes
309501	1l	Glass bottle	
309505	2,5l	Glass bottle	
529165	5l	Plastic tank	
309506	10l	Plastic tank	
309504	25l	Metal tank	
309507	25l	Plastic tank	
309500	200l	Metal drum	
309509	200l	Plastic drum	
309503	160kg	Metal drum	

## ► Propan-2-ol &gt; RE-Pure

RE

Description .....	Clear colourless liquid	Residue on evaporation .....	<= 20 ppm	Acidity (acetic acid) .....	<= 20 ppm
Water (K.F.) .....	<= 2000 ppm	Refractive index at 20°C .....	1.375 - 1.379	Colour .....	<= 10 APHA



Code	Size	Packaging	Notes
529093	5l	Plastic tank	
529092	25l	Plastic tank	
529091	200l	Metal drum	

# PRO

## Propan-2-ol 70%

CH<sub>3</sub>CHOHCH<sub>3</sub>  
Molecular Weight 60,097  
CAS : 67-63-0

**Classification transport**  
ONU: 1219  
Transport Hazard class: 3  
Packing group II

  **Danger**  
2.6/2; H225-3.3/2; H319-3.8/3; H336  
P210-P241-P304+P340-P305+P351+P338-P403+P235-P405-P501a

### 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	25l	Plastic tank	

### Propan-2-ol 70% >

ERBAPharm

#### ERBAPharm-According to pharmacopoeia: Ph.Eur.-Microbiological tested

Description .....Clear colourless liquid Benzene.....<= 2 ppm **Test of specified micro-organisms**  
Density at 20°C.....0.856 - 0.862 Origin (BSE/TSE) .....Synthesis Enterobacteriaceae .....Absent/100 ml  
Assay (alcohometric) at 20°C.....69 - 71 %(m/m) Residual solvents (CPMP/CH/283/95) .....Conform Staphylococcus aureus .....Absent/100 ml  
Related substances (CPG).....<= 0.3 % Total aerobic microbial count (TAMC).....<= 5 CFU/100ml Pseudomonas aeruginosa.....Absent/100 ml  
Absorbance.....Conform Ph.Eur. Total yeasts/mould count (TYMC).....<= 5 CFU/100ml

Code	Size	Packaging	Notes
524195	5l	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	1l	Plastic bottle	
524183	1l	Spray	6 units / box
524184	2,5l	Plastic bottle	
524181	5l	Plastic tank	

## 1,3-Propanediol

C<sub>3</sub>H<sub>8</sub>O<sub>2</sub>  
Molecular Weight 76,10  
CAS : 504-63-2  
EEC-N : 207-997-3

### 1,3-Propanediol > RE-Pure-For synthesis

RE

Appearance .....Clear and viscous liquid Refractive index at 20°C .....1.438 - 1.442 Colour .....<= 15 Hazen  
Identification (IR).....Conform Water content (K.F.).....<= 1000 mg/Kg Assay (GC).....>= 99.7 %



Code	Size	Packaging	Notes
P8040216	1l	Glass bottle	
P8040222	5l	Plastic tank	
P8040268	190l	Metal drum	

## Propionaldehyde

Synonym : Propanal

CH<sub>3</sub>CH<sub>2</sub>CHO  
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**  
2.6/2; H225-3.2/2; H315-3.3/2; H319-3.8/3; H335  
P210-P241-P304+P340-P305+P351+P338-P403+P235-P405-P501a

### Propionaldehyde > RE-Pure

RE

Description .....Clear colourless liquid Refractive index at 20°C .....1.3610 - 1.3650  
Identification.....Positive Assay (GLC).....>= 96.0 %

Code	Size	Packaging	Notes
310504	100ml	Glass bottle	

## Propionic acid

CH<sub>3</sub>CH<sub>2</sub>COOH  
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**

3.2/1B; H314-2.6/3; H226  
P210-P241-P304+P340-P305+P351+P338-P403+P235-P405-P501a

### Propionic acid > RPE-For analysis

RPE

Description .....Clear colourless liquid Ready carbonizable substances .....Conform Water (K.F.).....<=0.25 % Sulphate.....<=10 ppm  
Identification.....Positive Density at 20° C.....0.992 - 0.994 Chloride .....<=5 ppm Fe.....<=2 ppm  
Water miscibility .....Conform Refractive index at 20°C .....1.3864 - 1.3884 Heavy metals (Pb).....<=5 ppm Assay (acidimetric) .....>=99.5 %  
Alcohol miscibility .....Conform Boiling point .....140.6 - 141.6 ° C Residue on evaporation .....<=50 ppm

Code	Size	Packaging	Notes
409551	250ml	Glass bottle	
409553	1l	Glass bottle	

### Propionic acid > RE-Pure

RE

Description .....Yellow clear liquid Density at 20° C.....0.988 - 0.998 Residue on ignition .....<=100 ppm  
Identification.....Positive Refractive index at 20°C .....1.3854 - 1.3884 Assay (acidimetric) .....>=98 %

Code	Size	Packaging	Notes
306254	1l	Glass bottle	

## n-Propyl acetate

CH<sub>3</sub>COO(CH<sub>2</sub>)<sub>2</sub>CH<sub>3</sub>  
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**

2.6/2; H225-3.3/2; H319-3.8/3; H336-EUH066  
P210-P241-P304+P340-P305+P351+P338-P403+P235-P405-P501a

### n-Propyl acetate > RPE-For analysis

RPE

Description .....Clear liquid Colour .....<= 10 Apha Water (K.F.) .....<= 500 ppm  
Identification.....Positive Refractive index at 20°C .....1.3812 - 1.3882 Assay (GLC).....>= 99.5 %

Code	Size	Packaging	Notes
474807	1l	Glass bottle	

## Propyl p-hydroxybenzoate

HOC<sub>6</sub>H<sub>4</sub>COO(CH<sub>2</sub>)<sub>2</sub>CH<sub>3</sub>  
Molecular Weight 180,19  
CAS : 94-13-3  
EEC-N : 202-307-7



**Warning**

3.2/2; H315-3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

### Propyl p-hydroxybenzoate >

ERBAPharm

ERBAPharm-According to pharmacopoeia: DAB-BP-FU-NF-Ph.Eur.-Ph.Franc.

Description .....White crystalline powder Acidity .....Conform Ph.Eur. Melting point .....96 - 99 °C  
Identification.....Positive Related compounds .....Conform Ph.Eur. Sulphated ash .....<=0.1 ppm  
Appearance of solution.....Conform Ph.Eur. Organic volatile impurities .....Conform USP-NF Origin (BSE/TSE) .....Synthesis

Code	Size	Packaging	Notes
363953	50g	Glass bottle	
363956	500g	Plastic bottle	

Product specifications are subject to changes.  
Please visit our website for updates.

# PRO

## Propylene carbonate

Synonym : 4-Methyl-1,3-dioxolan-2-one

OCH(CH<sub>3</sub>)CH<sub>2</sub>OCO  
Molecular Weight 102,09  
CAS : 108-32-7  
EEC-N : 203-572-1



**Warning**  
3.3/2; H319  
P280-P264-P305+P351+P338-P337+P313

### Propylene carbonate > RPE-For analysis

RPE

Description .....Clear colourless liquid    Refractive index at 20°C .....1.4199 - 1.4219    Assay (acidimetric) .....>=99 %  
Identification .....Positive    Boiling point .....241.0 - 242.5 °C  
Density at 20° C .....1.200 - 1.206    Residue on ignition .....<=100 ppm

Code	Size	Packaging	Notes
474871	1l	Glass bottle	

## Propylene glycol

CH<sub>2</sub>OHCHOHCH<sub>3</sub>  
Molecular Weight 76,10  
CAS : 57-55-6  
EEC-N : 200-338-0

### Propylene glycol > RPE-For analysis

RPE

Description .....Clear colourless liquid    Density at 20° C .....1.034 - 1.038    Alkalinity (NH<sub>4</sub>OH).....<=0.85 ppm    Residue on ignition.....<=30 ppm  
Identification .....Positive    Refractive index at 20°C .....1.4309 - 1.4339    Chloride .....<=20 ppm    Sulphate.....<=20 ppm  
Water miscibility .....Conform    Boiling point .....188.0 - 190.0 °C    Carbonyl Compounds (CO) .....<=100 ppm    As.....<=2 ppm  
Miscb. with Acetone.....Complete    Water (K.F.).....<=0.1 %    Heavy metals (Pb) .....<=2 ppm    Fe.....<=2 ppm  
Alcohol miscibility .....Complete    Acidity (acetic acid) .....<=3 ppm    Peroxides (H<sub>2</sub>O<sub>2</sub>).....<=5 ppm    Assay (GLC).....>=99.5 %

Code	Size	Packaging	Notes
454054	1l	Glass bottle	
454053	2,5l	Glass bottle	
454052	30kg	Plastic tank	

### Propylene glycol >

ERBAPharm-According to pharmacopoeia: Ph.Eur.-USP-FU-Ph.Franc.-BP

ERBAPharm

Description .....Clear colourless liquid    Reducing substances .....Conform Ph.Eur.    Refractive index at 20°C .....1.431 - 1.433    Heavy metals (Pb) .....<=5 ppm  
Identification .....Positive    Oxidizing substances .....Conform Ph.Eur.    Water (K.F.) .....<=0.2 %    Sulphate.....<=60 ppm  
Appearance .....Conform Ph.Eur.    Density at 20° C .....1.035 - 1.040    Sulphated ash.....<=70 ppm    Assay (GLC).....>=99.5 %  
Acidity .....Conform Ph.Eur.    Boiling point .....184 - 189 °C    Chloride .....<=70 ppm

Code	Size	Packaging	Notes
346701	1l	Glass bottle	
346703	2,5l	Glass bottle	
346705	60kg	Plastic tank	
346708	200kg	Plastic drum	

## 6-Propyl-2-thiouracil

C<sub>7</sub>H<sub>10</sub>N<sub>2</sub>OS  
Molecular Weight 170,23  
CAS : 51-52-5  
EEC-N : 200-103-2



**Warning**  
3.1.0/4; H302  
P264-P270-P330-P301+P312-P501a

### 6-Propyl-2-thiouracil > RPE-For analysis

RPE

Description .....White powder    Melting point .....218.0 - 221.0 °C  
Identification .....Positive    Assay (argentimetric).....>= 97.5 %

Code	Size	Packaging	Notes
474831	10g	Glass bottle	

## Pumice stone

CAS : 1332-09-8

## ► Pumice stone &gt; RPE-For analysis

RPE

Description ..... Greyish granules Identification ..... Positive

Code	Size	Packaging	Notes
469971	250g	Plastic bottle	

## Pyridine

N:CHCH:CHCH:CH  
Molecular Weight 79,10  
CAS : 110-86-1

## Classification transport

ONU: 1282  
Transport Hazard class: 3  
Packing group II

Danger

2.6/2; H225-3.1.O/4; H302-3.1.D/4; H312-3.1.I/4; H332  
P210-P241-P243-P304+P340-P403+P235-P501a

## ► Pyridine &gt; 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 ..... <= 10 Hazen Non volatile residue ..... <= 10 mg/Kg

Code	Size	Packaging	Notes
P0671010	200ml	Bottle with sept	
P06710S10	200ml	Bottle with sept	Water content < 100 ppm
P0671016	1l	Glass bottle	
P0671021	2,5l	Glass bottle	

## ► Pyridine &gt; RS-For peptide synthesis

RS

Water content (K.F.) ..... <= 100 mg/Kg Keyser Test ..... Conform  
Colour ..... <= 10 Hazen Assay (GC) ..... >= 99,5 %

Code	Size	Packaging	Notes
P0673516	1l	Glass bottle	
P0673521	2,5l	Glass bottle	

## ► Pyridine &gt; 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	1l	Glass bottle	

## ► Pyridine &gt; RS-For Karl Fischer titration

RS

Description ..... Clear colourless liquid Refractive index at 20°C ..... 1.5050 - 1.5140 Assay (GLC) ..... >=99.6 %  
Identification ..... Positive Boiling point ..... 114.2 - 116.2 °C Boiling point ..... 114.2 - 116.2 °C  
Density at 20° C ..... 0.979 - 0.985 Water (K.F.) ..... <=500 ppm

Code	Size	Packaging	Notes
469651	250ml	Glass bottle	
469652	1l	Glass bottle	

## ► Pyridine &gt; 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 (GLO) ..... >=99.0 %

Code	Size	Packaging	Notes
469622	500ml	Glass bottle	
469629	1l	Glass bottle	
469624	2,5l	Glass bottle	
469626	20kg	Glass-polystyrene container	
469621	25kg	Metal tank	

Product specifications are subject to changes.  
Please visit our website for updates.

## ▶ 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	1l	Glass bottle	
528257	200l	Metal drum	
358754	25kg	Metal tank	

## ▶ Pyridine-d5

C<sub>5</sub>D<sub>5</sub>N  
 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**  
 2.6/2; H225-3.1.O/4; H302-3.1.D/4; H312-3.1.I/4; H332  
 P210-P241-P243-P304+P340-P403+P235-P501a

## ▶ Pyridine-d5 > RS-For NMR-min 99.5%

**RS**

Code	Size	Packaging	Notes
P5369A	2x0,75ml	Ampoule	
P5364A	10ml	Ampoule	

## ▶ Pyridine-d5 > RS-For NMR-min 99.95%

**RS**

Code	Size	Packaging	Notes
P5370	2x0,6ml	Ampoule	

## ▶ Pyridoxine dipalmitate

C<sub>40</sub>H<sub>71</sub>NO<sub>5</sub>  
 Molecular Weight 645,98  
 CAS : 635-38-1

## ▶ Pyridoxine dipalmitate > RE-Pure

**RE**

Description.....White powder  
 Identification (I.R.).....Positive  
 Solubility in Maiz oil (2g/100ml at 90°C).....Complete  
 Melting point.....88.0 - 92.0 °C  
 Heavy metals (Pb).....<=10 ppm  
 As.....<=2 ppm  
 Loss on drying (P2O<sub>5</sub>).....<=0.5 %  
 Sulphated ash.....<=0.1 %  
 Water (K.F.).....<=0.8 %  
 Assay (potetiometric).....98.5 - 100 %

Code	Size	Packaging	Notes
389901	1kg	Plastic bottle	
389905	10kg	Fibre drum	

## ▶ 1-(2-Pyridylazo)-2-naphthol

N:CHCH:CHCH:CN:NC<sub>10</sub>H<sub>6</sub>OH  
 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) at 216nm (in HCl 1N).....>= 1400  
 Sulphated ash.....<= 0.3 %  
 Assay.....>= 97.5 %

Code	Size	Packaging	Notes
469592	5g	Glass bottle	

*Complexometric indicator. For extraction and spectrophotometric determination of the transition metals.*




## Pyrocatechol

Synonyms : 1,2-Dihydroxybenzene  
1,2-Benzenediol

1,2-(OH)<sub>2</sub>C<sub>6</sub>H<sub>4</sub>  
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**  
3.1.0/4; H302-3.1.D/4; H312-3.2/2; H315-3.3/2; H319  
P280-P305+P351+P338-P312-P330-P332+P313-P501a

### Pyrocatechol > RPE-For analysis

RPE

Description.....Grey-brown flakes Melting point .....103 - 105 °C  
Identification.....Positive Assay (GLO).....>= 99,0 %

Code	Size	Packaging	Notes
469753	50g	Glass bottle	

## Pyrocatechol violet

C<sub>19</sub>H<sub>14</sub>O<sub>7</sub>S  
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	1g	Glass bottle	

Complexometric indicator.

## Pyrogallol

Synonym : 1,2,3-Trihydroxybenzene

1,2,3-(OH)<sub>3</sub>C<sub>6</sub>H<sub>3</sub>  
Molecular Weight 126,11  
CAS : 87-66-1  
EEC-N : 201-762-9

 **Warning**  
3.5/2; H341-3.1.O/4; H302-3.1.D/4; H312-3.1.I/4; H332-4.1.C/3; H412  
P261-P271-P280-P304+P340-P405-P501a

### Pyrogallol > RPE-For analysis-ACS-Reag. Ph.Eur.

RPE

Description.....White crystalline powder Sulphated ash.....<= 0.005 % Sulphate .....<=50 ppm  
Identification (I.R.).....Positive Fe.....<=10 ppm Chloride .....<=10 ppm  
Melting point .....131 - 135 °C Heavy metals (Pb).....<=5 ppm

Code	Size	Packaging	Notes
409435	250g	Plastic bottle	
409437	1kg	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	5kg	Plastic bottle	

## Pyronine Y

C<sub>17</sub>H<sub>19</sub>ClN<sub>2</sub>O  
Molecular Weight 302,81  
CAS : 92-32-0  
EEC-N : 202-147-8

 **Warning**  
3.1.0/4; H302  
P264-P270-P330-P301+P312-P501a

### Pyronine Y > RS-For microscopy-C.I. 45005

RS

Description.....Green-shining flakes Identification.....Positive

Code	Size	Packaging	Notes
469801	5g	Glass bottle	

Dye for cytology

## Pyrrolidine dithiocarbamic acid ammonium salt

CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>NCSSNH<sub>4</sub>  
 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 crystals  
 Identification.....Positive  
 Water-insoluble matter.....<= 100 ppm  
 Heavy metals (Pb).....<= 10 ppm  
 Residue on ignition.....<= 0.1 %  
 Cadmium sensitivity.....Conform  
 Sulphate.....<= 500 ppm  
 Cd.....<= 0.005 ppm  
 Fe.....<= 10 ppm  
 Pb.....<= 0.05 ppm  
 Assay.....>= 99 % (NH<sub>3</sub>)

Code	Size	Packaging	Notes
409471	10g	Glass bottle	

## Quality control standard solution for AAS (graphite furnace), for ICP and ICP-MS

Cadmium standard solution.....96  
 Copper standard solution.....136  
 Lead standard solution.....288  
 Manganese standard solution.....309  
 Mercury standard solution.....314  
 Multiement standard for ICP.....341  
 Multiement standard for ICP and ICP-MS.....342  
 Nickel standard solution.....347

## Quartz granular

SiO<sub>2</sub>  
 Molecular Weight 60,09  
 CAS : 14808-60-7  
 EEC-N : 238-878-4

 **Warning**  
 3.9/2; H373  
 P260-P314-P501a

### Quartz granular > RE-Pure

**RE**

Description .....White granules  
 Identification.....Positive

Code	Size	Packaging	Notes
364011	100g	Glass bottle	

## Quinaldine red

C<sub>21</sub>H<sub>23</sub>N<sub>2</sub>  
 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.....Colorless - red


Code	Size	Packaging	Notes
476687	1g	Glass bottle	

*Acid-base indicator (pH 1.4 ÷ 3.2).*

## Quinine anhydrous

C<sub>20</sub>H<sub>24</sub>N<sub>2</sub>O<sub>2</sub>  
 Molecular Weight 324,40  
 CAS : 130-95-0  
 EEC-N : 205-003-2

**Classification transport**  
 ONU: 1544  
 Transport Hazard class: 6.1  
 Packing group III

 **Warning**  
 3.1, O/4; H302  
 P264-P270-P330-P301+P312-P501a

### Quinine anhydrous > ERBAPharm-According to pharmacopoeia: DAB

**ERBAPharm**

Description .....White crystalline powder  
 Identification.....Positive  
 Melting point.....~ 175 ° C  
 Specific optical rotation(C=1 Ethanol).....~ 167 °

Code	Size	Packaging	Notes
333342	100g	Glass bottle	

## Quinoline

Synonyms : 2,3-Benzopyridine  
1-Benzazine

C<sub>9</sub>H<sub>7</sub>N  
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**

3.6/1B; H350-3.5/2; H341-3.1.O/4; H302-3.1.D/4; H312-3.2/2; H315-3.3/2; H319-4.1.O/2; H411-A26  
P280-P305+P351+P338-P308+P313-P312-P405-P501a

### Quinoline > RE-Pure

RE

Description.....Yellow-brown clear liquid Refractive index at 20°C .....1.6218 - 1.6318 Assay (GLC).....>=95 %  
Identification.....Positive Boiling point .....235.6 - 238.6 °C  
Density at 20° C.....1.088 - 1.100 Residue on ignition .....<=0.1 %

Code	Size	Packaging	Notes
333701	100ml	Glass bottle	
333707	1l	Glass bottle	

## Raffinose

Synonyms : Melitriose  
Melitose

C<sub>18</sub>H<sub>32</sub>O<sub>16</sub>.5H<sub>2</sub>O  
Molecular Weight 594,51  
CAS : 17629-30-0  
EEC-N : 208-146-9

### Raffinose > RPE-For analysis

RPE

Description.....White crystalline powder Acidity (acetic acid) .....<=50 ppm Sulphate .....<=50 ppm  
Identification.....Positive Starch and Dextrins .....<=5 ppm Red.ing sugars(Glucose).....<=0.1 %  
Melting point .....79.0 - 81.0 °C Total nitrogen .....<=100 ppm As .....<=2 ppm  
Specific optical rotation.....+104.5 - +105.9 ° Chloride .....<=20 ppm Fe.....<=10 ppm  
Water (K.F.) .....<=15.5 % Water-insoluble matter .....<=50 ppm  
Residue on ignition .....<=300 ppm Heavy metals (Pb) .....<=10 ppm

Code	Size	Packaging	Notes
475132	25g	Glass bottle	

## Raney's alloy

CAS : 12003-78-0

**Classification transport**  
ONU: 3089  
Transport Hazard class: 4.1  
Packing group III



**Danger**

2.12/1; H260-2.7/2; H228-3.9/1; H372-3.6/2; H351-3.4.S/1; H317  
P210-P241-P231+P232-P308+P313-P405-P501a

### Raney's alloy > RPE-For analysis

RPE

Description.....Greyish metallic powder Al.....~50 %  
Identification.....Positive Ni .....~50 %

Code	Size	Packaging	Notes
457675	250g	Plastic bottle	

## Reagent for lipolysis

**Classification transport**  
ONU: 3093



**Danger**

2.13/2; H272  
P210-P221-P280-P220-P370+P378a-P501a

### 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	2,5l	Glass bottle	
524912	5l	Plastic tank	

Composition : Reagent for copper : 90,9% HCl 0,7N: 4,55% EDTA(8% w/v): 4,55%

## Reagent Total Acid Number

### Classification transport

ONU: 1993  
 Transport Hazard class: 3  
 Packing group II



### Danger

2.6/2; H225-3.7/2; H361d-3.9/2; H373-3.2/2; H315-3.3/2; H319-3.8/3; H336  
 P210-P241-P304+P340-P305+P351+P338-P403+P235-P405-P501a

### Reagent Total Acid Number > RS-For analysis

RS

Water content (K.F.).....4500 - 5500 mg/Kg Free acid (as CH<sub>3</sub>COOH).....<= 5 mg/Kg Refractive index at 20°C .....1.433 - 1.437

Code	Size	Packaging	Notes
PS0327/21	2,5l	Glass bottle	
PS0327/29	5l	Plastic tank	
PS0327/39	10l	Plastic tank	

Composition : 495 ml propanol-2, 500ml Toluene, 5 ml water

## Reagent Total Base Number

### Classification transport

ONU: 2924  
 Transport Hazard class: 3  
 Packing group III



### Danger

3.2/1B; H314-2.6/3; H226-3.1.1/4; H332-4.1.C/2; H411  
 P210-P241-P304+P340-P305+P351+P338-P403+P235-P405-P501a

### Reagent Total Base Number > RS-For analysis

RS

Refractive index at 20°C .....1.464 - 1.468

Code	Size	Packaging	Notes
PS0423/21	2,5l	Glass bottle	
PS0423/29	5l	Plastic tank	
PS0423/39	10l	Plastic tank	

Composition : 333 ml acetic acid, 667 ml chlorobenzene. According to ASTM D2896

## Red for oils O

C<sub>26</sub>H<sub>24</sub>N<sub>4</sub>O  
 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	25g	Glass bottle	

Dye for lipoprotein in acetate cellulose capsule.

## Redox indicator

Resazurin.....441	sym-Diphenylcarbazine .....179	Ferroun 0.025 mol/l solution .....205
Methylene blue .....328	2,2'-Dipyridyl .....180	Amidoschwarz B 10 solution.....26
o-Phenantroline monohydrate .....384	Brilliant cresyl blue .....75	Neutral red.....346
Diphenylamine .....179	Indigo carmine dried.....262	Safranin T .....444
4-Diphenylaminesulfonic acid sodium salt .....179	2,6-Dichlorophenolindophenol sodium salt .....162	

## Redox solution 468 mV at 25°C

## Classification transport

ONU: 2796  
 Transport Hazard class: 8  
 Packing group II



## Danger

3.2/1A; H314  
 P260-P280-P304+P340-P305+P351+P338-P405-P501a

## Redox solution 468 mV at 25°C &gt; RS-For electrochemistry

RS

Description.....Green-brown clear liquid Identification.....Positive Redox potential at 25°C .....458 - 478 mV

Code	Size	Packaging	Notes
478052	500ml	Plastic bottle	

## Redox solution 220 mV at 25°C



## Danger

3.2/1C; H314  
 P260-P280-P304+P340-P305+P351+P338-P405-P501a

## Redox solution 220 mV at 25°C &gt; RS-For electrochemistry

RS

Description.....Yellow clear liquid pH at 25°C.....6.95 - 7.05  
 Identification.....Positive Redox potential at 25°C .....215 - 225 mV

Code	Size	Packaging	Notes
478032	500ml	Glass bottle	

## Reinecke salt

$\text{NH}_4[\text{Cr}(\text{NH}_3)_2(\text{SCN})_4]\cdot\text{H}_2\text{O}$   
 Molecular Weight 354,44  
 CAS : 13573-16-5  
 EEC-N : 237-003-3



## Warning

3.1.0/4; H302-3.1.D/4; H312-3.1.I/4; H332-EUH032  
 P261-P271-P280-P304+P340-P312-P501a

## Reinecke salt &gt; RPE-For analysis-ACS

RPE

Description .....Dark red crystalline powder Diluted HCl-ins. matter.....<=500 ppm Assay (gravimetric).....>=93.0 %  
 Identification.....Positive Sens.(Choline chloride).....>=0.5 mg/ml

Code	Size	Packaging	Notes
420672	25g	Glass bottle	

## Resazurin

Synonym : 7-Hydroxy-3H-phenoxazin-3-one-10-oxide sodium salt

$\text{C}_{12}\text{H}_6\text{N}_4\text{NaO}_4$   
 Molecular Weight 251,17  
 CAS : 62758-13-8  
 EEC-N : 263-718-5



## Warning

3.1.0/4; H302-3.2/2; H315-3.3/2; H319-3.8/3; H335  
 P261-P271-P304+P340-P305+P351+P338-P405-P501a

## Resazurin &gt; RS-For analysis-Redox indicator

RS

Description .....Dark grey powder Identification.....Positive pH range.....3.8 - 6.5


Code	Size	Packaging	Notes
476331	25g	Bottle	

## Resorcinol

Synonym : 1,3-Benzenediol

1,3-(OH)<sub>2</sub>C<sub>6</sub>H<sub>4</sub>  
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**  
4.1.A/1; H400-3.1.O/4; H302-3.2/2; H315-3.3/2; H319  
P280-P305+P351+P338-P330-P332+P313-P337+P313-P501a

## Resorcinol &gt; RPE-For analysis

RPE

Description .....White flakes Melting point .....109 - 111 °C Assay (GLC).....>= 97.5 %  
Identification.....Positive Residue on ignition .....<= 0.1 %

Code	Size	Packaging	Notes
476565	250g	Plastic bottle	

## L(+)Rhamnose

C<sub>6</sub>H<sub>12</sub>O<sub>5</sub>.H<sub>2</sub>O  
Molecular Weight 182,17  
CAS : 10030-85-0  
EEC-N : 222-793-4

## L(+)Rhamnose &gt; RPE-For analysis

RPE

Description .....White crystalline powder Residue on ignition.....<=0.1 % Co.....<=5 ppm Zn.....<=5 ppm  
Identification.....Positive Chloride .....<=50 ppm Cu.....<=5 ppm Assay .....>=99 %  
Melting point.....89 - 91 °C Sulphate.....<=50 ppm Fe.....<=5 ppm  
Specific optical rotation .....+7.5 - +8.5 ° As .....<=0.1 ppm Ni .....<=5 ppm  
Loss on drying .....9.8 - 10.2 % Cd .....<=5 ppm Pb .....<=5 ppm

Code	Size	Packaging	Notes
476312	25g	Glass bottle	

## Rhenium standard solution

## Rhenium standard solution &gt; RS-Standard for ICP-MS

RS

Code	Size	Packaging	Notes
505801	50ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505802	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505805	100ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid

## Rhodium standard solution

## Rhodium standard solution &gt; RS-Standard for ICP-MS

RS

Code	Size	Packaging	Notes
505806	50ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
505807	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
505808	100ml	Plastic bottle	conc. 100 ppm Matrix : Hydrochloric acid

## Rhodium standard solution &gt; RS-Standard for ICP

RS

Code	Size	Packaging	Notes
503861	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
503865	100ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrochloric acid
503863	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
503867	500ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrochloric acid

## Riboflavine

Synonyms : Lactoflavin  
Vitamin B2

C<sub>17</sub>H<sub>20</sub>O<sub>6</sub>N<sub>4</sub>  
Molecular Weight 376,37  
CAS : 83-88-5  
EEC-N : 201-507-1

## Riboflavine &gt; RE-Pure

RE

Description ..... Yellow-orange powder  
Identification ..... Positive  
Absorbance ..... Conform  
Specific optical rotation at 20°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

Code	Size	Packaging	Notes
389511	10g	Glass bottle	

## D(-)Ribose

CH<sub>2</sub>(CHOH)<sub>3</sub>CHOH  
Molecular Weight 150,13  
CAS : 50-69-1  
EEC-N : 200-059-4

## D(-)Ribose &gt; RPE-For analysis

RPE

Description ..... Yellowish powder  
Identification ..... Positive  
Loss on drying ..... ≤ 1 %  
Specific optical rotation at 20°C (C=4; H<sub>2</sub>O) ..... -19.2 — -20.8 °  
Separation (TLC) ..... ≥ 99.50 %  
Heavy metals (Pb) ..... ≤ 10 ppm  
Residue on ignition ..... ≤ 0.1 %

Code	Size	Packaging	Notes
476608	5g	Glass bottle	

## Rice starch

(C<sub>6</sub>H<sub>10</sub>O<sub>5</sub>)<sub>n</sub>  
CAS : 9005-25-8  
EEC-N : 232-679-6

## Rice starch &gt; ERBAPharm-According to pharmacopoeia: BP-FU-Ph.Eur.-Ph.Franc.

ERBAPharm

Description ..... White powder  
Identification ..... Positive  
Microscopic test ..... Conform Ph.Eur.  
Foreign cellular elem. .... Conform Ph.Eur.  
Loss on drying ..... ≤ 15.0 %  
Sulphated ash ..... ≤ 0.6 %  
pH (sosp. 20%) ..... 5.0 - 8.0  
Fe ..... ≤ 10 ppm  
Sulfur dioxide ..... ≤ 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	1kg	Plastic bottle	
313108	2,5kg	Plastic bottle	
313102	25kg	Drum	

## Rosolic acid

C<sub>19</sub>H<sub>14</sub>O<sub>3</sub>  
Molecular Weight 290,32  
CAS : 603-45-2  
EEC-N : 210-041-8

## Rosolic acid &gt; 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	25g	Glass bottle	

*Dye for microscopy (bacteriology). Indicator acid - base (pH 5.0 ÷ 6.8).*

# RUB

## Rubidium standard solution

### Rubidium standard solution > RS-Standard for ICP-MS

RS

Code	Size	Packaging	Notes
505791	50ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505792	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505795	100ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid

### Rubidium standard solution > RS-Standard for ICP

RS

Code	Size	Packaging	Notes
503841	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503845	100ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
503843	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503847	500ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

## Rubidium chloride

RbCl  
Molecular Weight 120,92  
CAS : 7791-11-9  
EEC-N : 232-240-9

### Rubidium chloride > RPE-For analysis

RPE

Description	White powder	Cu	<=3 ppm	Na	<=100 ppm
Identification	Positive	Fe	<=3 ppm	Zn	<=3 ppm
Sulphate	<=50 ppm	K	<=500 ppm	Assay (argentimetric)	>=99.5 %
Al	<=10 ppm	Mg	<=5 ppm		

Code	Size	Packaging	Notes
477067	1g	Glass bottle	

## Ruthenium standard solution

### Ruthenium standard solution > RS-Standard for ICP-MS

RS

Code	Size	Packaging	Notes
505811	50ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
505812	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
505815	100ml	Plastic bottle	conc. 100 ppm Matrix : Hydrochloric acid

### Ruthenium standard solution > RS-Standard for ICP

RS

Code	Size	Packaging	Notes
503871	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
503875	100ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrochloric acid
503873	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
503877	500ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrochloric acid

## Safranine T

C<sub>20</sub>H<sub>19</sub>ClN<sub>4</sub>  
Molecular Weight 350,85  
CAS : 477-73-6  
EEC-N : 207-518-8



### Warning

3.1.0/4; H302-3.3/2; H319  
P280-P305+P351+P338-P330-P337+P313-P301+P312-P501a

### Safranine T > RS-For microscopy-C.I. 50420

RS

Description.....Red brown powder Identification.....Positive

Code	Size	Packaging	Notes
477232	25g	Glass bottle	

Dye for bacteriology, cytology.



## Safranine T hydroalcoholic solution

C<sub>20</sub>H<sub>19</sub>ClN<sub>4</sub>  
CAS : 477-73-6

### Safranine T hydroalcoholic solution > RS-For microscopy

RS

Description .....Red clear liquid Identification.....Positive

Code	Size	Packaging	Notes
477241	250ml	Plastic bottle	

Dye for bacteriology according to Gram-Hucker. Ethanol / water (10:90).

## Salicylaldehyde azine

C<sub>14</sub>H<sub>12</sub>N<sub>2</sub>O<sub>2</sub>  
Molecular Weight 240,3

### Salicylaldehyde azine > RS-For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611075500	1l	Bottle	Ref Ph.Eur 1075500

## Salicylic acid

Synonym : 2-Hydroxybenzoic acid

2-HOC<sub>6</sub>H<sub>4</sub>COOH  
Molecular Weight 138,12  
CAS : 69-72-7  
EEC-N : 200-712-3



**Danger**

3.3/1; H318-3.1.0/4; H302-3.8/3; H335-3.2/2; H315  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

### Salicylic acid > RPE-For analysis-ACS

RPE

Description .....White crystalline powder Chloride .....<=10 ppm Fe.....<=2 ppm  
Identification.....Positive Heavy metals (Pb) .....<=5 ppm Assay (HPLC).....>=99.0 %  
Ready carbonizable substances .....Conform Residue on ignition .....<=100 ppm  
Melting point .....158.0 - 161.0 °C Sulphate .....<=30 ppm

Code	Size	Packaging	Notes
409773	100g	Plastic bottle	
409777	1kg	Plastic bottle	

### Salicylic acid > ERBAPharm-According to pharmacopoeia: FU

ERBAPharm

Description .....White crystalline powder Loss on drying .....<=0.5 % Assay (acidimetric) .....99.0 - 100.5 % s.s.  
Identification.....Positive Sulphated ash .....<=500 ppm Origin (BSE/TSE) .....Synthesis  
Appearance of solution .....Conform Ph.Eur. Chloride .....<=100 ppm Residual solvents (CPMP/ICH/283/95) .....Conform  
Related substances (HPLC) .....Conform Sulphate .....<=200 ppm  
Melting point .....158.0 - 161.0 °C Heavy metals (Pb) .....<=20 ppm

Code	Size	Packaging	Notes
306381	1kg	Plastic bottle	

### Salicylic acid > ERBAPharm-According to pharmacopoeia: Ph.Eur.-USP-FU

ERBAPharm

Description .....White crystalline powder Loss on drying .....<=0.5 % Assay (acidimetric) .....99.5 - 100.5 % s.s.  
Identification.....Positive Sulphated ash .....<=500 ppm Origin (BSE/TSE) .....Synthesis  
Appearance of solution .....Conform Ph.Eur. Chloride .....<=100 ppm Residual solvents (CPMP/ICH/283/95) .....Conform  
Related compounds .....Conform Ph.Eur. Sulphate .....<=200 ppm  
Melting point .....158.0 - 161.0 °C Heavy metals (Pb) .....<=20 ppm

Code	Size	Packaging	Notes
306377	1kg	Plastic bottle	

Product specifications are subject to changes.  
Please visit our website for updates.

# SAM

## Samarium standard solution

### Samarium standard solution > RS-Standard for ICP-MS

RS

Code	Size	Packaging	Notes
505851	50ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505852	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505855	100ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid

### Samarium standard solution > RS-Standard for ICP

RS

Code	Size	Packaging	Notes
503931	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503935	100ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
503933	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503937	500ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

## Sand of Fontainebleau

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	1kg	Plastic bottle	
502063	5kg	Plastic bucket	
502062	25kg	Plastic bucket	

## Sand purified

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 (406100).....Conform mesh

Code	Size	Packaging	Notes
477153	1kg	Plastic bottle	

## Saponin

CAS : 8047-15-2  
EEC-N : 232-462-6



Warning

3.8/3; H335  
P261-P271-P304+P340-P312-P405-P501a

### Saponin > RE-Pure

RE

Description .....Yellow powder Loss on drying .....<=5 % pH 1% at 25°C .....5.0 - 6.5  
Identification.....Positive Water-insoluble matter .....<=0.1 %  
Foaming power.....Conform Solubility in water .....Pass test

Code	Size	Packaging	Notes
365755	250g	Plastic bottle	
365757	1kg	Plastic bottle	

## Scandium standard solution

## Scandium standard solution &gt; RS-Standard for ICP-MS

RS

Code	Size	Packaging	Notes
505836	50ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505837	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505838	100ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid

## Scandium standard solution &gt; RS-Standard for ICP

RS

Code	Size	Packaging	Notes
503901	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503905	100ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
503903	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503907	500ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

## Schiff's reagent

## Classification transport

ONU: 1760  
 Transport Hazard class: 8  
 Packing group III



## Warning

3.6/2; H351-3.2/2; H315-3.3/2; H319  
 P280-P305+P351+P338-P308+P313-P332+P313-P405-P501a

## Schiff's reagent &gt; RS-For microscopy

RS

Description.....Yellow clear liquid Identification.....Positive

Code	Size	Packaging	Notes
477592	6x500ml	Glass bottle	

*Dye for histology used for P.A.S. reaction.*

## Schiff's reagent &gt; RPE-For analysis

RPE

Description.....Clear colourless or light yellow liquid Identification.....Positive

Code	Size	Packaging	Notes
477601	500ml	Glass bottle	

*For the determination of aldehydes.*

## Sebacic acid

Synonym : Decanedioic acid

$\text{HOOC}(\text{CH}_2)_8\text{COOH}$   
 Molecular Weight 202,25  
 CAS : 111-20-6  
 EEC-N : 203-845-5

## Sebacic acid &gt; 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	250g	Plastic bottle	

Product specifications are subject to changes.  
 Please visit our website for updates.

## Selenic mixture

4.1.C/3; H412  
P273-P501a

## ▶ Selenic mixture &gt; RS-For nitrogen detection according to Wieninger

RS

Description .....Pads or dark gray powder Identification.....Positive

Code	Size	Packaging	Notes
463421	250g	Plastic bottle	
463422	1kg	Plastic bottle	

## Selenium standard solution

## ▶ Selenium standard solution &gt; RS-For analysis according to Ph. Eur. Chap. 4.1.2

RS

Code	Size	Packaging	Notes
615002501	100ml	Bottle	A 1 ppm solution Ref Ph.Eur 5002501
615002500	1l	Bottle	A 100 ppm solution Ref Ph.Eur 5002500

## ▶ Selenium standard solution &gt; RS-Standard for ICP-MS

RS

Code	Size	Packaging	Notes
505841	50ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505842	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505845	100ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid

## ▶ Selenium standard solution &gt; RS-Standard for ICP

RS

Code	Size	Packaging	Notes
503911	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503915	100ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
503913	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503917	500ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

## ▶ Selenium standard solution &gt; RS-Standard for AAS

RS

Description.....Clear pinky liquid Identification.....Positive Titration factor.....0.998 - 1.002

Code	Size	Packaging	Notes
E497625	100ml	Glass bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
E497621	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid

## ▶ Selenium standard solution &gt; RS-NORMEX- Concentrated solution for AAS

RS

Description.....Clear pinkish liquid Identification.....Positive Titration factor.....0.995 - 1.005

Code	Size	Packaging	Notes
477691	Normex	Plastic ampoule	conc. 1.000 ppm Matrix : Water

## Selenium, powder

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**3.1.O/3; H301-3.1.I/3; H331-3.9/2; H373-4.1.C/4; H413  
P260-P261-P271-P304+P340-P405-P501a

## ▶ Selenium, powder &gt; RPE-For analysis

RPE

Description.....Blackish powder Fe.....<= 100 ppm Zn.....<= 100 ppm  
Identification.....Positive Hg.....<= 100 ppm Assay.....>= 99.50 % (Se)  
As.....<= 100 ppm Pb.....<= 500 ppm  
Cu.....<= 100 ppm Te.....<= 500 ppm

Code	Size	Packaging	Notes
477702	25g	Glass bottle	
477707	1kg	Plastic bottle	

## Selenium dioxide

Synonym : Selenium oxide

SeO<sub>2</sub>  
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**  
3.1.O/3; H301-3.1.I/3; H331-3.9/2; H373-4.1.A/1; H400-4.1.C/1; H410  
P260-P261-P271-P304+P340-P405-P501a

## Selenium dioxide &gt; RPE-For analysis

RPE

Description.....White-pink crystals    Ca.....<= 50 ppm    Pb.....<= 50 ppm  
Identification.....Positive    Cu.....<= 50 ppm    Zn.....<= 50 ppm  
Chloride.....<= 500 ppm    Fe.....<= 50 ppm    Assay (iodometric).....>= 99 %

Code	Size	Packaging	Notes
477762	25g	Glass bottle	

## Selenous acid

H<sub>2</sub>SeO<sub>3</sub>  
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**  
3.1.O/3; H301-3.1.I/3; H331-3.9/2; H373-4.1.A/1; H400-4.1.C/1; H410  
P260-P261-P271-P304+P340-P405-P501a

## Selenous acid &gt; RPE-For analysis

RPE

Description.....Whitish powder    Identification.....Positive    Assay (iodometric).....>= 97.5 %

Code	Size	Packaging	Notes
409964	100g	Glass bottle	

## Shorr's stain

**Classification transport**  
ONU: 1993  
Transport Hazard class: 3  
Packing group III

**Warning**  
2.6/3; H226  
P210-P241-P243-P303+P361+P353-P403+P235-P501a

## Shorr's stain &gt; RS-For microscopy

RS

Description.....Blackish liquid    Identification.....Positive

Code	Size	Packaging	Notes
477941	500ml	Glass bottle	

Dye for cytology. Ethanol - water (50:50).

## Silica gel 1000A

SiO<sub>2</sub>  
Molecular Weight 60,09  
CAS : 7631-86-9  
EEC-N : 231-545-4

**Warning**  
3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

## Silica gel 1000A &gt; RS-For chromatography

RS

Code	Size	Packaging	Notes
P215RS17	1kg	Plastic bottle	5 µm
P216RS17	1kg	Plastic bottle	10 µm
P217RS17	1kg	Plastic bottle	15 µm
P218RS17	1kg	Plastic bottle	20 µm
P219RS17	1kg	Plastic bottle	40 µm

Stir before use

## Silica gel 100A

SiO<sub>2</sub>  
Molecular Weight 60,09  
CAS : 7631-86-9  
EEC-N : 231-545-4



## Warning

3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

## Silica gel 100A &gt; RS-For chromatography

RS

Code	Size	Packaging	Notes
P205RS17	1kg	Plastic bottle	5 µm
P206RS17	1kg	Plastic bottle	10 µm
P207RS17	1kg	Plastic bottle	15 µm
P208RS17	1kg	Plastic bottle	20 µm
P209RS17	1kg	Plastic bottle	40 µm

*Stir before use*

## Silica gel 300A

SiO<sub>2</sub>  
Molecular Weight 60,09  
CAS : 7631-86-9  
EEC-N : 231-545-4



## Warning

3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

## Silica gel 300A &gt; RS-For chromatography

RS

Code	Size	Packaging	Notes
P210RS17	1kg	Plastic bottle	5 µm
P211RS17	1kg	Plastic bottle	10 µm
P212RS17	1kg	Plastic bottle	15 µm
P213RS17	1kg	Plastic bottle	20 µm
P214RS17	1kg	Plastic bottle	40 µm

*Stir before use*

## Silica gel bonded C18 90A

SiO<sub>2</sub>  
Molecular Weight 60,09  
CAS : 7631-86-9  
EEC-N : 231-545-4



## Warning

3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

## Silica gel bonded C18 90A &gt; RS-For chromatography

RS

Code	Size	Packaging	Notes
P2110017	1kg	Plastic bottle	15-35µm
P2120017	1kg	Plastic bottle	40-63µm
P2140017	1kg	Plastic bottle	35-70µm
P2150017	1kg	Plastic bottle	60-200µm

*Stir before use*

## Silica gel 70A

SiO<sub>2</sub>  
Molecular Weight 60,09  
CAS : 7631-86-9  
EEC-N : 231-545-4



## Warning

3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

## Silica gel 70A &gt; RS-For chromatography

RS

Code	Size	Packaging	Notes
P200RS17	1kg	Plastic bottle	5 µm
P201RS17	1kg	Plastic bottle	10 µm
P202RS17	1kg	Plastic bottle	15 µm
P203RS17	1kg	Plastic bottle	20 µm
P204RS17	1kg	Plastic bottle	40 µm

*Stir before use*

## Silica gel 60A

SiO<sub>2</sub>  
Molecular Weight 60,09  
CAS : 7631-86-9  
EEC-N : 231-545-4



## Warning

3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

## Silica gel 60A &gt; RS-For Flash chromatography

RS

Description.....White powder Nitrate.....<=150 ppm Ni.....<=5 ppm > 32.0 µm.....>= 87.0 %  
Identification.....Positive Sulphate.....<=700 ppm Pb.....<=5 ppm > 80.7 µm.....<= 3.0 %  
pH suspension 10% H<sub>2</sub>O.....6.2 - 7.2 Cd.....<=5 ppm Zn.....<=5 ppm  
Chloride.....<=100 ppm Cu.....<=5 ppm Granulometry.....  
Apparent density.....380 - 420 g/l Fe.....<=50 ppm > 20.2 µm.....>= 99.0 %

Code	Size	Packaging	Notes
453351	100g	Plastic bottle	
453352	500g	Plastic bottle	
453353	1kg	Plastic bottle	
453355	5kg	Plastic bottle	
453354	25kg	Fibre drum	

## Silica gel 60A 6 - 35µ

SiO<sub>2</sub>  
Molecular Weight 60,09  
CAS : 7631-86-9  
EEC-N : 231-545-4



## Warning

3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

## Silica gel 60A 6 - 35µ &gt; RS-For chromatography

RS

Code	Size	Packaging	Notes
P2010017	1kg	Plastic bottle	
P2010027	5kg	Metal bucket	
P2010044	25kg	Drum	

Stir before use

## Silica gel 60A 20 - 45µ

SiO<sub>2</sub>  
Molecular Weight 60,09  
CAS : 7631-86-9  
EEC-N : 231-545-4



## Warning

3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

## Silica gel 60A 20 - 45µ &gt; RS-For chromatography

RS

Code	Size	Packaging	Notes
P2200017	1kg	Plastic bottle	
P2200027	5kg	Metal bucket	
P2200044	25kg	Drum	

Stir before use

## Silica gel 60A 35 - 70µ

SiO<sub>2</sub>  
Molecular Weight 60,09  
CAS : 7631-86-9  
EEC-N : 231-545-4



## Warning

3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

## Silica gel 60A 35 - 70µ &gt; RS-For chromatography

RS

Code	Size	Packaging	Notes
P2000017	1kg	Plastic bottle	
P2180017	1kg	Plastic bottle	
P2000026	2kg	Plastic bottle	
P2000027	5kg	Metal bucket	
P2000044	25kg	Drum	
P200S144	25kg	Drum	

Stir before use

## Silica gel 60A 40 - 63 $\mu$

SiO<sub>2</sub>  
Molecular Weight 60,09  
CAS : 7631-86-9  
EEC-N : 231-545-4



### Warning

3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

### Silica gel 60A 40 - 63 $\mu$ > RS-For chromatography

RS

Code	Size	Packaging	Notes
P2050017	1kg	Plastic bottle	
P2170017	1kg	Drum	
P2050027	5kg	Metal bucket	
P2050044	25kg	Drum	

Stir before use

## Silica gel 60A 70 - 200 $\mu$

SiO<sub>2</sub>  
Molecular Weight 60,09  
CAS : 7631-86-9  
EEC-N : 231-545-4



### Warning

3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

### Silica gel 60A 70 - 200 $\mu$ > RS-For chromatography

RS

Description .....White powder      pH suspension 10% H<sub>2</sub>O .....6.5 - 7.5      > 0.20 mm .....<=5 %  
Identification.....Positive      < 0.06 mm .....<=5 %

Code	Size	Packaging	Notes
453336	500g	Plastic bottle	
453337	1kg	Plastic bottle	
P2100017	1kg	Plastic bottle	
P2100026	2kg	Plastic bottle	
453332	5kg	Metal bucket	
P2100027	5kg	Plastic bucket	
453331	20kg	Plastic bottle	
P2100044	25kg	Drum	

## Silica gel granular

SiO<sub>2</sub>  
Molecular Weight 60,09  
CAS : 7631-86-9  
EEC-N : 231-545-4



### Warning

3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

### Silica gel granular > RE-Pure

RE

Description .....White granules      Identification.....Positive      Functionality.....Conform

Code	Size	Packaging	Notes
453278	10x50g	Bag	
453272	10 x 100g	Bag	
453273	10x250g	Bag	
453275	10x500g	Bag	
453277	1kg	Plastic bottle	
453279	5kg	Plastic bottle	
453271	25kg	Drum	



## Silica gel granular with indicator cobalt free

SiO<sub>2</sub>  
CAS : 7631-86-9

## Silica gel granular with indicator cobalt free &gt; RE-Pure

RE

Description .....Small bags containing yellowish granules Identification.....Positive Functionality.....Conform

Code	Size	Packaging	Notes
345701	200x5g	Bag	
345702	1500x5g	Bag	
453317	1kg	Plastic bottle	
453319	5kg	Plastic bottle	
453315	25kg	Plastic bucket	

## Silicon standard solution

## Silicon standard solution &gt; RS-Standard for ICP-MS

RS

Code	Size	Packaging	Notes
505846	50ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
505847	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
505848	100ml	Plastic bottle	conc. 100 ppm Matrix : Water

## Silicon standard solution &gt; RS-Standard for ICP

RS

Code	Size	Packaging	Notes
503921	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503925	100ml	Plastic bottle	conc. 10.000 ppm Matrix : Water
504271	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrofluoric acid and nitric acid
504275	100ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrofluoric acid and nitric acid
503923	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503927	500ml	Plastic bottle	conc. 10.000 ppm Matrix : Water
504273	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrofluoric acid and nitric acid
504277	500ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrofluoric acid and nitric acid

## Silicon standard solution &gt; RS-Standard for AAS

RS

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

Code	Size	Packaging	Notes
E497635	100ml	Glass bottle	conc. 1.000 ppm Matrix : Water
E497631	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Water

## Silicon standard solution &gt; RS-NORMEX- Concentrated solution for AAS

RS

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

Code	Size	Packaging	Notes
477961	Normex	Plastic ampoule	conc. 1.000 ppm Matrix : Water

## Silicon dioxide

Synonym : Quartz

SiO<sub>2</sub>  
Molecular Weight 60,09  
CAS : 14808-60-7  
EEC-N : 238-878-4



Warning

3.9/2; H373  
P260-P314-P501a

## Silicon dioxide &gt; RPE-For analysis

RPE

Description .....White powder Chloride .....<=50 ppm Sulphate .....<=150 ppm  
Identification.....Positive Heavy metals (Pb).....<=50 ppm Fe.....<=50 ppm  
Loss on ignition.....<=1 % Residue on ignition(HF) .....<=0.6 %

Code	Size	Packaging	Notes
422104	100g	Plastic bottle	
422106	500g	Plastic bottle	

## ► Silicon dioxide > ERBAPharm-According to pharmacopoeia: NF

**ERBAPharm**

Description ..... White powder      Loss on drying 145°C ..... <=5.0 %      Sulphate ..... <=0.5 %  
 Identification ..... Positive      Loss on calcinat. 1000°C ..... <=8.5 %      AS ..... <=3 ppm  
 Organic volatile impurities ..... Conform USP-NF      Chloride ..... <=0.1 %      Assay (SiO<sub>2</sub>, weight) ..... >=99.0 %  
 pH (1:20) ..... 4.0 - 8.0      Heavy metals (Pb) ..... <=30 ppm

Code	Size	Packaging	Notes
365801	1kg	Plastic bottle	

## Silicotungstic acid

Synonym : Tungstosilicic acid hydrate

SiO<sub>2</sub>.12WO<sub>3</sub>.26H<sub>2</sub>O  
 Molecular Weight 3310,66  
 CAS : 12027-43-9



### Warning

3.2/2; H315-3.3/2; H319-3.8/3; H335  
 P261-P271-P304+P340-P305+P351+P338-P405-P501a

## ► Silicotungstic acid > RPE-For analysis

**RPE**

Description ..... Yellow crystals      Heavy metals (Pb) ..... <=20 ppm      Total nitrogen ..... <=20 ppm  
 Identification ..... Positive      Sulphate ..... <=50 ppm      K ..... <=10 ppm  
 Chloride ..... <=20 ppm      Fe ..... <=10 ppm      Loss on ignition ..... <=15 %

Code	Size	Packaging	Notes
410051	10g	Glass bottle	
410054	100g	Glass bottle	

## Silver standard solution

### ► Silver standard solution > RS-For analysis according to Ph. Eur. Chap. 4.1.2

**RS**

Code	Size	Packaging	Notes
615002609	1l	Bottle	A 5 ppm solution : to dilute according to Ref Ph.Eur 5002600

### ► Silver standard solution > RS-Standard for ICP-MS

**RS**

Code	Size	Packaging	Notes
505301	50ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505302	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505305	100ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid

### ► Silver standard solution > RS-Standard for ICP

**RS**

Code	Size	Packaging	Notes
503401	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503405	100ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
503403	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503407	500ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

### ► Silver standard solution > RS-Standard for AAS

**RS**

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

Code	Size	Packaging	Notes
E497425	100ml	Glass bottle	conc. 1.000 ppm Matrix : Nitric acid
E497421	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

### ► 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	Normex	Plastic ampoule	conc. 1.000 ppm Matrix : Nitric acid

## Silver, sheet

Ag  
Molecular Weight 107,87  
CAS : 7440-22-4  
EEC-N : 231-131-3

## Silver, sheet &gt; RPE-For analysis

RPE

Description .....Foil Identification.....Positive Assay .....>=99.9 %

Code	Size	Packaging	Notes
423722	25g	Bottle	0.1 mm
423752	25g	Bag	0.5 mm
423782	25g	Bottle	1 mm

## Silver, wire

Ag  
Molecular Weight 107,87  
CAS : 7440-22-4  
EEC-N : 231-131-3

## Silver, wire &gt; RPE-For analysis

RPE

Description .....wire Identification.....Positive Assay .....>=99.9 %

Code	Size	Packaging	Notes
423632	25g	Bottle	Diameter ~ 0,5 mm

## Silver, wool

Ag  
Molecular Weight 107,87  
CAS : 7440-22-4  
EEC-N : 231-131-3

## Silver, wool &gt; RS-For microanalysis

RS

Description .....wool Identification.....Positive Assay .....>=99.9 %

Code	Size	Packaging	Notes
423791	5g	Glass bottle	

## Silver acetate

CH<sub>3</sub>COOAg  
Molecular Weight 166,92  
CAS : 563-63-3  
EEC-N : 209-254-9



Warning

3.2/2; H315-3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

## Silver acetate &gt; RE-Pure

RE

Description .....White greyish powder Humidity (H<sub>2</sub>O) .....<=0,5 %  
Identification.....Positive Assay (argentimetric).....>=98 %

Code	Size	Packaging	Notes
319502	25g	Glass bottle	
319507	250g	Plastic bottle	

# SIL

## Silver carbonate

Ag<sub>2</sub>CO<sub>3</sub>  
Molecular Weight 275,75  
CAS : 534-16-7  
EEC-N : 208-590-3



**Danger**  
3.3/1; H318  
P280-P305+P351+P338-P310

### Silver carbonate > RE-Pure

RE

Description .....Yellow-green powder Substances not ppt HCl .....<=1 %  
Identification.....Positive Assay (argentimetric).....98 - 100 %

Code	Size	Packaging	Notes
320002	25g	Glass bottle	
320007	250g	Glass bottle	

## Silver chloride

AgCl  
Molecular Weight 143,32  
CAS : 7783-90-6  
EEC-N : 232-033-3

### Silver chloride > RE-Pure

RE

Description .....Whitish irregular granules Cu .....<= 100 ppm Ni .....<= 60 ppm  
Identification.....Positive Fe .....<= 100 ppm Pb .....<= 60 ppm  
Al .....<= 60 ppm Mg .....<= 60 ppm  
Ca .....<= 60 ppm Mn .....<= 60 ppm

Code	Size	Packaging	Notes
320502	25g	Glass bottle	
320504	100g	Glass bottle	

## Silver diethyldithiocarbamate

(C<sub>2</sub>H<sub>5</sub>)<sub>2</sub>NCSSAg  
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 Arsenic sensitivity .....Conform  
Identification.....Positive Solubility in Pyridine .....Conform

Code	Size	Packaging	Notes
423913	10g	Glass bottle	

## Silver iodide

AgI  
Molecular Weight 234,77  
CAS : 7783-96-2  
EEC-N : 232-038-0

### Silver iodide > RPE-For analysis

RPE


Description .....Yellow granular powder Ins.ble in KSCN 50% .....<=100 ppm Assay (argentimetric).....99 - 100 %  
Identification.....Positive Water solubility .....<=0.2 %

Code	Size	Packaging	Notes
423921	100g	Glass bottle	

## Silver nitrate

AgNO<sub>3</sub>  
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**  
2.14/2; H272-3.2/1B; H314-4.1.A/1; H400-4.1.C/1; H410  
P210-P221-P304+P340-P305+P351+P338-P405-P501a

## Silver nitrate &gt; RPE-For analysis-ACS

RPE

Description.....White crystals      Substances not ppt HCl .....<=100 ppm      Fe.....<=2 ppm  
Identification.....Positive      Chloride .....<=5 ppm      Pb.....<=10 ppm  
Appearance of solution.....Conform ACS      Sulphate .....<=20 ppm      Assay (argentimetric).....>=99.0 %  
Fee acidity .....Conform ACS      Cu.....<=2 ppm

Code	Size	Packaging	Notes
423952	25g	Glass bottle	
423954	100g	Glass bottle	
423955	250g	Glass bottle	
423957	1kg	Plastic bottle	

## Silver nitrate &gt;

ERBAPharm


ERBAPharm-According to pharmacopoeia: Ph.Eur.-USP-FU-Ph.Franc.-BP-DAB

Description.....White crystalline powder      Acidity or alkalinity .....Conform Ph.Eur.      Assay (argentimetric).....99.8 - 100.5 %  
Identification.....Positive      Al,Pb,Cu,Bi .....Conform Ph.Eur.  
Appearance of solution.....Conform USP-NF      Foreign salts.....<= 0.3 %

Code	Size	Packaging	Notes
320904	100g	Glass bottle	
320907	1kg	Plastic bottle	

## Silver nitrate solution 5%

**Classification transport**  
ONU: 3082  
Transport Hazard class: 9  
Packing group III

 **Danger**  
3.2/1B; H314-4.1.C/2; H411  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

## Silver nitrate solution 5% &gt; RPE-For analysis

RPE

Description.....Clear colourless liquid      Density at 15° C.....1.036 - 1.044  
Identification.....Positive      Assay.....4.0 - 6.0 %

Code	Size	Packaging	Notes
E423981	500ml	Glass bottle	
E423982	1l	Glass bottle	

## Silver nitrate solution 2.9075%

4.1.C/3; H412  
P273-P501a

## Silver nitrate solution 2.9075% &gt; RPE-For analysis

RPE

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

Code	Size	Packaging	Notes
E424005	250ml	Glass bottle	
E424001	1l	Glass bottle	

## Silver nitrate 1 mol/l (1N)

### Classification transport

ONU: 1760  
 Transport Hazard class: 8  
 Packing group III



### Danger

3.2/1B; H314-4.1.C/2; H411  
 P260-P280-P304+P340-P305+P351+P338-P405-P501a

### Silver nitrate 1 mol/l (1N) > RPE-For analysis

RPE

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

Code	Size	Packaging	Notes
424036000	500ml	Plastic bottle	
424035000	1l	Plastic bottle	

169,87 g of AgNO<sub>3</sub>. Volumetric solution ready-to-use : 1 N. Traceable to NIST

## Silver nitrate 0.5 mol/l (0.5N)

### Classification transport

ONU: 3082  
 Transport Hazard class: 9  
 Packing group III



### Danger

3.2/1B; H314-4.1.C/2; H411  
 P260-P280-P304+P340-P305+P351+P338-P405-P501a

### Silver nitrate 0.5 mol/l (0.5N) > RPE-For analysis

RPE

Description .....Clear colourless liquid Assay (potentiometry).....0.4995 - 0.5005 N

Code	Size	Packaging	Notes
424051000	1l	Plastic bottle	

Traceable to NIST

## Silver nitrate 0.1 mol/l (0.1N)



### Warning

3.2/2; H315-3.3/2; H319-4.1.C/3; H412  
 P280-P305+P351+P338-P332+P313-P337+P313-P362-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	1l	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

Code	Size	Packaging	Notes
424067000	1l	Plastic bottle	
424062000	5l	Kubidos	
424061000	10l	Kubidos	

16,987 g of AgNO<sub>3</sub>. Volumetric solution ready-to-use : 0,1 N. Traceable to NIST

## ▶ Silver nitrate 0.1 mol/l (0.1N) &gt; RPE-NORMEX -For analysis

RPE

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

Code	Size	Packaging	Notes
424081	Normex	Plastic ampoule	

16,987 g of AgNO<sub>3</sub>. Volumetric concentrated solution to prepare 1 L of solution 0.1 N

## ▶ Silver nitrate 0.05 mol/l (0.05N)

4.1.C/3; H412  
P273-P501a

## ▶ Silver nitrate 0.05 mol/l (0.05N) &gt; RPE-For analysis

RPE

Description .....Clear colourless liquid Assay (potentiometry).....0.04995 - 0.05005 N

Code	Size	Packaging	Notes
424101000	1l	Plastic bottle	

8,4935 g of AgNO<sub>3</sub>. Volumetric solution ready-to-use : 0,05 N. Traceable to NIST

## ▶ Silver nitrate 0.03 mol/l (0.03N)

4.1.C/3; H412  
P273-P501a

## ▶ Silver nitrate 0.03 mol/l (0.03N) &gt; RE-Pure

RE

Description .....Clear colourless liquid Assay .....0.029 - 0.031 N

Code	Size	Packaging	Notes
502087	2,5l	Bottle	

## ▶ Silver nitrate 0.025 mol/l (0.025N)

4.1.C/3; H412  
P273-P501a

## ▶ Silver nitrate 0.025 mol/l (0.025N) &gt; RPE-For analysis

RPE

Assay (potentiometry).....0.02495 - 0.02505 N

Code	Size	Packaging	Notes
PS0168/15	1l	Plastic bottle	

## ▶ Silver nitrate 0.01 mol/l (N/100)

4.1.C/3; H412  
P273-P501a

## ▶ Silver nitrate 0.01 mol/l (N/100) &gt; RPE-For analysis

RPE

Assay (potentiometry).....0.00998 - 0.01002 N

Code	Size	Packaging	Notes
PS0030/15	1l	Plastic bottle	

# SIL

## ▶ 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	Normex	Plastic ampoule	

1,6987 g of AgNO<sub>3</sub>. Volumetric concentrated solution to prepare 1 L of solution 0.01 N

## Silver nitrate solution

## ▶ Silver nitrate solution > RS-For analysis according to Ph. Eur. Chap. 4.1.1

**RS**

Code	Size	Packaging	Notes
611078306	100ml	Bottle	Silver nitrate R2 Ref Ph.Eur 1078302
611078307	100ml	Bottle	Silver nitrate R1 Ref Ph.Eur 1078301
611078301	1l	Bottle	Silver nitrate R1 Ref Ph.Eur 1078301
611078302	1l	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	100ml	Bottle	Silver nitrate TS

Storage: protected from light

## ▶ Silver nitrate solution > RS-For analysis according to USP

**RS**

Code	Size	Packaging	Notes
617000201	1l	Bottle	Silver nitrate TS

Storage: protected from light

## Silver oxide

Ag<sub>2</sub>O  
Molecular Weight 231,76  
CAS : 20667-12-3  
EEC-N : 243-957-1

## ▶ Silver oxide > RPE-For analysis

**RPE**Description .....Grey powder Ca .....<= 50 ppm Fe.....<= 150 ppm Pb .....<= 50 ppm  
Identification .....Positive Cd .....<= 50 ppm Mg .....<= 50 ppm Zn .....<= 50 ppm  
Loss on drying.....<= 0.5 % Cu .....<= 0.08 % Ni .....<= 50 ppm Assay (argentimetric) .....>= 99 %

Code	Size	Packaging	Notes
424181	25g	Glass bottle	
424182	250g	Plastic bottle	

**S**

## Silver sulfate

Ag<sub>2</sub>SO<sub>4</sub>  
Molecular Weight 311,79  
CAS : 10294-26-5  
EEC-N : 233-653-7

**Danger**3.3/1; H318  
P280-P305+P351+P338-P310

## ▶ Silver sulfate > RPE-For analysis

**RPE**Description .....White powder Ca .....<= 50 ppm Fe .....<= 150 ppm  
Identification .....Positive Cu .....<= 500 ppm Assay (argentimetric) .....>= 98.5 %  
Humidity (H<sub>2</sub>O) .....<= 0.5 % Ni .....<= 50 ppm


Code	Size	Packaging	Notes
424201	25g	Glass bottle	
424203	100g	Glass bottle	



## Silver sulfate solution 0.7% in sulfuric acid

Ag<sub>2</sub>SO<sub>4</sub>  
Molecular Weight 98,078  
CAS : 10294-26-5

**Classification transport**  
ONU: 1830  
Transport Hazard class: 8  
Packing group II

 **Danger**  
3.2/1A; H314  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

## Silver sulfate solution 0.7% in sulfuric acid &gt; RS-For COD determination


RS

Description .....Clear colourless liquid Identification.....Positive Assay.....0.685 - 0.715 %

Code	Size	Packaging	Notes
424191	1l	Glass bottle	
424192	2,5l	Glass bottle	

## Soap solution in ethanol

**Classification transport**  
ONU: 2924



 **Warning**  
2.6/3; H226  
P210-P241-P243-P303+P361+P353-P403+P235-P501a

## Soap solution in ethanol &gt; RS-For hydrometry according to Boutron-Boudet

RS

Code	Size	Packaging	Notes
E477507	1l	Bottle	

## Soda lime

  **Danger**  
3.2/1A; H314-3.8/3; H335  
P260-P261-P304+P340-P305+P351+P338-P405-P501a

Soda lime > RS-CO<sub>2</sub> adsorbant 1.0-2.5 mm without indicator

RS

Description.....White irregular granules Identification.....Positive Diameter .....1.2 - 2.5 mm

Code	Size	Packaging	Notes
432814	4,5kg	Bag	

## Soda lime &gt; RS-For anesthesia and basal metabolism test

RS

Description .....White granules Alcalinity (NaOH) .....<= 3.5 % Absorbed moisture .....<= 7.5 %  
Identification.....Positive Activity .....>= 19.0 % Diameter .....2.5 - 5.0 mm  
Water .....12.0 - 19.0 % Hardness .....>= 75.0 %

Code	Size	Packaging	Notes
432873	1kg	Plastic bottle	
432874	4,5kg	Plastic bottle	

*With ethyl violet indicator.*

## Soda lime &gt; 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	1kg	Plastic bottle	
432893	5kg	Plastic bottle	
432894	25kg	Drum	

*With indicator ethyl violet.*

# SOD

## ► Soda lime > RS-For CO2 absorption

RS

Description .....Green brown granules      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
432881	1kg	Plastic bottle	
432882	5kg	Plastic bottle	

With indicator manganese salt.

## ► Soda lime > RS-For microanalysis

RS

Description .....White granules      Water .....16 - 19 %      > 4.75 mm .....<=7.0 %  
 Identification.....Positive      Hardness .....>=80 %      < 0.6 mm .....<=1.0 %

Code	Size	Packaging	Notes
432851	500g	Plastic bottle	

With indicator ethyl violet.

## ► Soda lime > RPE-For analysis

RPE

Description .....White granules      Hardness .....>= 75 %      > 8.0 mm .....Nil  
 Identification.....Positive      Activity .....>= 19.0 %      > 4.75 mm .....<= 7.0 %  
 Water .....12 - 19 %      Alkalinity (NaOH) .....<= 3.5 %      < 0.425 mm .....<= 2.0 %

Code	Size	Packaging	Notes
432801	1kg	Plastic bottle	
432802	2,5kg	Plastic bottle	
432803	25kg	Fibre drum	

With ethyl purple indicator. Diameter 2.5 - 6 mm

# Sodium standard solution

## ► Sodium standard solution > RS-For analysis according to Ph. Eur. Chap. 4.1.2

RS

Code	Size	Packaging	Notes
615002701	100ml	Bottle	A 50 ppm solution : to dilute according to Ref Ph.Eur 5002701
615002709	100ml	Bottle	A 200 ppm solution : to dilute according to Ref Ph.Eur 5002700
615005700	1l	Bottle	A 1000 ppm solution Ref Ph.Eur 5005700

## ► Sodium standard solution > RS-Standard for ICP-MS

RS

Code	Size	Packaging	Notes
505731	50ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505732	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505735	100ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid

## ► Sodium standard solution > RS-Standard for ICP

RS

Code	Size	Packaging	Notes
503741	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid 2%
503745	100ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid 2%
503743	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid 2%
503747	500ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid 2%

## ► Sodium standard solution > RS-Standard for AAS

RS

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

Code	Size	Packaging	Notes
E497645	100ml	Glass bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
E497641	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid

## ▶ Sodium standard solution &gt; RS-NORMEX- Concentrated solution for AAS

RS

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

Code	Size	Packaging	Notes
478101	Normex	Plastic ampoule	conc. 1.000 ppm Matrix : Nitric acid

## ▶ Sodium standard solution &gt; RS-Standard for ionic chromatography


RS

Code	Size	Packaging	Notes
503300	50ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503301	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503303	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503302	250ml	Plastic bottle	conc. 1.000 ppm Matrix : Water

## Sodium, metallic

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**  
2.12/1; H260-3.2/1B; H314-EUH014  
P231+P232-P260-P304+P340-P305+P351+P338-P405-P501a

## ▶ Sodium, metallic &gt; 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	500g	Metallic can	

## Sodium acetate anhydrous

CH<sub>3</sub>COONa  
Molecular Weight 82,03  
CAS : 127-09-3  
EEC-N : 204-823-8

## ▶ Sodium acetate anhydrous &gt; RPE-For analysis

RPE

Description .....White hygroscopic powder Nitrate .....<=10 ppm Fe.....<=3 ppm  
Identification.....Positive Subst. reducing KMnO<sub>4</sub> .....<=50 ppm (1h) K .....<=0.1 %  
pH sol. 5% at 25° C .....7.5 - 9.2 Sulphate .....<=100 ppm Mg .....<=5 ppm  
Loss on drying .....<=1.0 % Al .....<=5 ppm Mn .....<=5 ppm  
Ca, Mg and ppt by NH<sub>4</sub>OH .....<=50 ppm As .....<=1 ppm Ni .....<=2 ppm  
Chloride .....<=350 ppm Ca .....<=100 ppm Zn .....<=2 ppm  
Heavy metals (Pb) .....<=10 ppm Cu .....<=2 ppm Assay (non-aqueous medium) .....99.0 - 101.0 % (s.s.)

Code	Size	Packaging	Notes
478166	500g	Plastic bottle	
478167	1kg	Plastic bottle	
478163	25kg	Fibre drum	

## ▶ Sodium acetate anhydrous &gt; ERBAPharm-According to pharmacopoeia: USP

ERBAPharm

Description .....White crystalline powder pH .....7.5 - 9.2 USP-NF Sulphate .....<=50 ppm  
Identification.....Positive Loss on drying .....<=1.0 % Al .....<=0.2 ppm  
Calcium + Magnesium .....Conform USP-NF Water not sol. matter .....<=500 ppm Assay (non-aqueous medium) .....99.0 - 101.0 % s.s.  
K .....Conform USP-NF Chloride .....<=350 ppm Origin (BSE/TSE) .....Synthesis  
Organic volatile impurities .....Conform USP-NF Heavy metals (Pb) .....<=10 ppm

Code	Size	Packaging	Notes
366377	1kg	Plastic bottle	
366372	5kg	Plastic bottle	
366371	25kg	Drum	

# SOD

## Sodium acetate trihydrate

CH<sub>3</sub>COONa·3H<sub>2</sub>O  
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 Chloride .....<=10 ppm Sulphate.....<=20 ppm Ca.....<=50 ppm  
Identification.....Positive Phosphate.....<=5 ppm Fe.....<=5 ppm Mg.....<=20 ppm  
pH sol. 5% at 25° C.....7.5 - 9.2 Water-insoluble matter .....<=50 ppm K.....<=50 ppm  
Subst. reducing KMnO<sub>4</sub>.....Conform Heavy metals (Pb).....<=5 ppm Assay (non-aqueous medium) .....99.0 - 101.0 %

Code	Size	Packaging	Notes
478137	1kg	Plastic bottle	
478139	5kg	Plastic bottle	
478132	25kg	Drum	

### Sodium acetate trihydrate >

ERBAPharm

#### ERBAPharm-According to pharmacopoeia: Ph.Eur.-USP-FU-Ph.Franc.-BP

Description.....Colourless crystals Loss on drying 130° C.....39.0 - 40.5 % Calcium + Magnesium.....<=50 ppm  
Identification.....Positive Chloride .....<=200 ppm Fe.....<=10 ppm  
Appearance of solution.....Conform Ph.Eur. Heavy metals (Pb).....<=10 ppm Al.....<=0.2 ppm  
Reducing substances.....Conform Ph.Eur. Sulphate .....<=50 ppm Assay (non-aqueous medium).....99.0 - 101.0 % (s.s.)  
K.....Conform USP-NF Not soluble matter .....<=500 ppm  
pH sol. 5% at 25° C.....7.5 - 9.0 As .....<=2 ppm

Code	Size	Packaging	Notes
366207	1kg	Plastic bottle	
366209	5kg	Plastic bottle	
366205	25kg	Plastic bucket	

## Sodium alginate

(C<sub>6</sub>H<sub>7</sub>O<sub>6</sub>Na)N  
Molecular Weight >200000  
CAS : 9005-38-3

### Sodium alginate > ERBAPharm-According to pharmacopoeia: FU-Ph.Eur.

ERBAPharm

Description.....Beige powder Sulphated ash.....30.0 - 36.0 % Microbial tests..... Salmonella .....Absent  
Identification.....Positive Chloride .....<=1.0 % TAMC.....<=1000 CFU/g  
Appearance of solution.....Conform Ph.Eur. Heavy metals (Pb).....<=20 ppm TYMC .....<=100 CFU/g  
Loss on drying .....<=15.0 % Ca.....<=1.50 % Escherichia coli .....Absent

Code	Size	Packaging	Notes
366551	100g	Plastic bottle	
366552	1kg	Plastic bottle	

## Sodium aluminate

NaAlO<sub>2</sub>  
Molecular Weight 81,97  
CAS : 11138-49-1  
EEC-N : 234-391-6



Danger

3,2/1B; H314  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

### Sodium aluminate > RE-Pure

RE

Description.....White-grey powder Water-insoluble matter .....<=0.2 % Assay .....53 - 55 % (Al<sub>2</sub>O<sub>3</sub>)  
Identification.....Positive Fe .....<=200 ppm

Code	Size	Packaging	Notes
478237	1kg	Plastic bottle	
478232	25kg	Drum	

## Sodium ammonium hydrogen phosphate

NaNH<sub>4</sub>HPO<sub>4</sub>·4H<sub>2</sub>O  
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	1kg	Plastic bottle	

## Sodium L-ascorbate

C<sub>6</sub>H<sub>7</sub>O<sub>6</sub>Na  
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	100g	Plastic bottle	
366684	1kg	Plastic bottle	

## Sodium arsenite 0.1 mol/l (0.2N)

**Classification transport**  
ONU: 1686  
Transport Hazard class: 6.1  
Packing group III

 **Danger**  
3.6/1A; H350-3.1.O/4; H302-4.1.C/2; H411-A26  
P281-P308+P313-P330-P301+P312-P405-P501a


### 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	1l	Bottle	Ref Ph.Eur 3005800

## Sodium arsenite 0.05 mol/l (0.1N)

**Classification transport**  
ONU: 1686  
Transport Hazard class: 6.1  
Packing group III

 **Danger**  
3.6/1A; H350-3.1.O/4; H302-3.3/2; H319-4.1.C/2; H411-A26  
P280-P305+P351+P338-P308+P313-P330-P405-P501a

### 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	Normex	Glass ampoule	

6,494 g NaAsO<sub>2</sub>. Volumetric concentrated solution to prepare 1 L of solution 0.1 N

# SOD

## Sodium azide

Synonym : *Hydrazoic acid sodium salt*

NaN<sub>3</sub>  
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**  
3.1.O/2; H300-4.1.A/1; H400-4.1.C/1; H410-EUH032  
P273-P264-P301+P310-P330-P405-P501a

### 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	25g	Glass bottle	
478482	250g	Glass bottle	
478481	2,5kg	Plastic bottle	

## Sodium benzoate

C<sub>6</sub>H<sub>5</sub>COONa  
Molecular Weight 144,11  
CAS : 532-32-1  
EEC-N : 208-534-8

### Sodium benzoate >

ERBAPharm

ERBAPharm-According to pharmacopoeia: BP-FU-NF-Ph.Eur.-Ph.Franc.

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-aqueous medium) .....99.0 - 100.5 % s.s.

Code	Size	Packaging	Notes
366757	1kg	Plastic bottle	
366759	5kg	Plastic bottle	
366754	25kg	Fibre drum	

## Sodium bicarbonate

Synonym : *Sodium hydrogen carbonate*

NaHCO<sub>3</sub>  
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  
Identification.....Positive  
Water-insoluble matter .....<=150 ppm  
Ammonium .....<=5 ppm  
Chloride .....<=30 ppm  
Phosphate .....<=10 ppm  
Total sulphur.....<=30 ppm  
Heavy metals (Pb) .....<=5 ppm  
Fe.....<=10 ppm  
K.....<=50 ppm  
Assay (alkalimetric) .....99.7 - 100.3 % s.s.  
Ca.....<=100 ppm  
Mg .....<=50 ppm  
As.....<=2 ppm  
Appearance of solution .....Conform  
Carbonate .....Conform  
Loss on drying .....<=0.25 %  
Sulphate.....<=150 ppm

Code	Size	Packaging	Notes
478536	500g	Plastic bottle	
478537	1kg	Plastic bottle	
478531	5kg	Plastic bottle	
478532	25kg	Drum	

### Sodium bicarbonate >

ERBAPharm

ERBAPharm-According to pharmacopoeia: Ph.Eur.-USP-FU-Ph.Franc.-BP-DAB

Description .....White crystalline powder  
Identification.....Positive  
Appearance of solution.....Conform Ph.Eur.  
Carbonate.....Conform Ph.Eur.  
Not soluble matter .....Conform USP-NF  
Loss (silica gel) .....<=0.25 %  
Ammonium .....<=20 ppm  
Chloride .....<=150 ppm  
Heavy metals (Pb) .....<=5 ppm  
Sulphate.....<=150 ppm  
Sulfur compounds .....<=150 ppm  
As.....<=2 ppm  
Ca.....<=100 ppm  
Fe.....<=20 ppm  
Assay (alkalimetric) .....99.0 - 100.5 % s.s.



Code	Size	Packaging	Notes
366909	5kg	Plastic bottle	
366902	25kg	Plastic bucket	
366905	25kg	Plastic bucket	
366904	50kg	Plastic bucket	

## Sodium bisulfate monohydrate

Synonym : Sodium hydrogen sulfate monohydrate

NaHSO<sub>4</sub>·H<sub>2</sub>O  
Molecular Weight 138,07  
CAS : 10034-88-5  
EEC-N : 231-665-7

**Classification transport**  
ONU: 3260  
Transport Hazard class: 8  
Packing group II

  **Danger**  
3.2/1B; H314-3.8/3; H335  
P260-P261-P304+P340-P305+P351+P338-P405-P501a

## Sodium bisulfate monohydrate &gt; 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
478677	1kg	Plastic bottle	
478673	25kg	Bag	

## Sodium borohydride

NaBH<sub>4</sub>  
Molecular Weight 37,83  
CAS : 16940-66-2  
EEC-N : 241-004-4

**Classification transport**  
ONU: 1426  
Transport Hazard class: 4.3  
Packing group I

   **Danger**  
2.12/1; H260-3.1.O/3; H301-3.1.D/3; H311-3.2/1B; H314  
P231+P232-P260-P304+P340-P305+P351+P338-P405-P501a

## Sodium borohydride &gt; RE-Pure- Powder

RE

Description.....White powder Identification.....Positive Assay (oxidimetric).....>= 95 %

Code	Size	Packaging	Notes
478953	50g	Metal bucket	
478955	250g	Metal bucket	
478957	1kg	Metallic can	

## Sodium borohydride &gt; RE-Pure- Pearls


RE

Description.....White pearls Identification.....Positive Assay.....>= 97.5 %

Code	Size	Packaging	Notes
478964	100g	Metal bucket	

## Sodium bromide

NaBr  
Molecular Weight 102,9  
CAS : 7647-15-6  
EEC-N : 231-599-9

 **Warning**  
3.2/2; H315-3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

## Sodium bromide &gt; RPE-For analysis-ACS

RPE

Description.....White crystalline powder Chloride .....<= 0.2 % Ba .....<= 20 ppm Mg .....<= 10 ppm  
Identification.....Positive Water-insoluble matter .....<= 50 ppm Ca .....<= 20 ppm Assay (argentimetric).....>= 99.0 %  
pH sol. 5% at 25° C .....5.0 - 8.8 Heavy metals (Pb) .....<= 5 ppm Fe .....<= 5 ppm  
Bromate.....<= 10 ppm Sulphate.....<= 20 ppm K .....<= 0.1 %

Code	Size	Packaging	Notes
479055	250g	Plastic bottle	
479057	1kg	Plastic bottle	

## Sodium bromide &gt; ERBAPharm-According to pharmacopoeia: Ph.Eur.-Ph.Franc.

ERBAPharm

Description.....White crystalline powder Iodide .....Conform Ph.Eur. Sulphate .....<=100 ppm  
Identification.....Positive Loss on drying .....<=3.0 % Fe.....<=20 ppm  
Appearance of solution.....Conform Ph.Eur. Chloride .....<=0.6 % Assay (argentimetric).....98.0 - 100.5 % s.s.  
Acidity or alkalinity .....Conform Ph.Eur. Mg,alkal.earth met.(Ca).....<=200 ppm  
Bromate.....Conform Ph.Eur. Heavy metals (Pb) .....<=10 ppm

Code	Size	Packaging	Notes
367357	1kg	Plastic bottle	
367359	5kg	Plastic bottle	
367354	50kg	Plastic bucket	

Product specifications are subject to changes.  
Please visit our website for updates.

# SOD

## Sodium carbonate anhydrous

Na<sub>2</sub>CO<sub>3</sub>  
Molecular Weight 105,99  
CAS : 497-19-8  
EEC-N : 207-838-8



### Warning

3,3/2; H319  
P280-P264-P305+P351+P338-P337+P313

### Sodium carbonate anhydrous > RS-For volumetry

RS

Description.....White crystals Identification.....Positive Assay.....>=99.7 %

Code	Size	Packaging	Notes
479331	50g	Glass bottle	

### Sodium carbonate anhydrous > RPE-For analysis-ISO-ACS-Reag.Ph.Eur.-Reag.USP

RPE

Description.....White crystalline powder Phosphate.....<= 10 ppm Total sulphur.....<= 30 ppm Ca.....<= 300 ppm  
Identification.....Positive Water-insoluble matter.....<= 100 ppm Fe.....<= 5 ppm Mg.....<= 50 ppm  
Loss on drying (285°C).....<= 1.0 % Heavy metals (Pb).....<= 5 ppm K.....<= 50 ppm  
Chloride.....<= 10 ppm Silicate.....<= 50 ppm Assay (alkalimetric).....>= 99.5 % s.s.

Code	Size	Packaging	Notes
479307	1kg	Plastic bottle	
479301	5kg	Plastic bottle	
479302	25kg	Bag	

### Sodium carbonate anhydrous > ERBAPharm-According to pharmacopoeia: Ph.Eur.-NF

ERBAPharm

Description.....White crystalline powder Alkali hydroxides and bicarbonates.....Conform Ph.Eur. Fe.....<= 50 ppm  
Identification.....Positive Chloride.....<= 125 ppm Heavy metals (Pb).....<= 10 ppm  
Loss on drying.....<=0.5 % Sulphate.....<= 250 ppm Residue solvents.....Conform USP-NF  
Appearance of solution.....Conform Ph.Eur. As.....<= 5 ppm Assay (acidimetric).....99.5 - 100.5 %s.s.

Code	Size	Packaging	Notes
367707	1kg	Plastic bottle	
367703	5kg	Plastic bottle	
367704	50kg	Fibre drum	

## Sodium carbonate decahydrate

Na<sub>2</sub>CO<sub>3</sub>.10H<sub>2</sub>O  
Molecular Weight 286,14  
CAS : 6132-02-1  
EEC-N : 207-838-8



### Warning

3,3/2; H319  
P280-P264-P305+P351+P338-P337+P313

### Sodium carbonate decahydrate > RPE-For analysis-ISO

RPE

Description.....White crystals Phosphate.....<=5 ppm Total sulphur.....<=10 ppm K.....<=50 ppm  
Identification.....Positive Water-insoluble matter.....<=25 ppm Al.....<=5 ppm Mg.....<=2 ppm  
Free alkalis (NaOH).....<=400 ppm As.....<=0.1 ppm Ni.....<=2 ppm  
Total nitrogen.....<=5 ppm Subst. ppt by NH<sub>4</sub>OH.....<=100 ppm Ca.....<=20 ppm Pb.....<=2 ppm  
Bicarbonate.....<=0.2 % Reducing iodine.....<=50 ppm Cu.....<=2 ppm Zn.....<=2 ppm  
Chloride.....<=5 ppm Silicate.....<=20 ppm Fe.....<=2 ppm Assay (alkalimetric).....>=99.5 %

Code	Size	Packaging	Notes
479127	1kg	Plastic bottle	
479121	5kg	Plastic bottle	
479122	25kg	Drum	

### Sodium carbonate decahydrate > ERBAPharm-According to pharmacopoeia: BP-FU-Ph.Eur.-Ph.Franc.

ERBAPharm

Description.....White crystalline powder Chloride.....<=50 ppm Fe.....<=20 ppm  
Identification.....Positive Heavy metals (Pb).....<=20 ppm Assay (alkalimetric).....36.7 - 40.0 % Na<sub>2</sub>CO<sub>3</sub>  
Appearance of solution.....Conform Ph.Eur. Sulphate.....<=100 ppm  
Alc.hydroxides + bicar.....Conform Ph.Eur. As.....<=2 ppm

Code	Size	Packaging	Notes
367609	5kg	Plastic bottle	
367603	20kg	Fibre drum	
367601	25kg	Plastic bucket	
367604	50kg	Fibre drum	



## Sodium carbonate monohydrate

Na<sub>2</sub>CO<sub>3</sub>.H<sub>2</sub>O  
Molecular Weight 105,99  
CAS : 497-19-8  
EEC-N : 207-838-8



Warning

3.3/2; H319  
P280-P264-P305+P351+P338-P337+P313

## Sodium carbonate monohydrate &gt; RS-For analysis according to Ph. Eur. Chap. 4.2.1

RS

Code	Size	Packaging	Notes
612000500	50g	Bottle	Ref Ph.Eur 2000500

## Sodium carbonate monohydrate &gt; RPE-For analysis-ACS

RPE

Description ..... White crystalline powder  
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
479257	1kg	Plastic bottle	

## Sodium carbonate monohydrate &gt; 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	1kg	Plastic bottle	
367692	5kg	Plastic bottle	
367693	25kg	Drum	
367694	50kg	Plastic bucket	

## Sodium carbonate solution 20%

## Sodium carbonate solution 20% &gt; RPE-For analysis

RPE

Description ..... Clear colourless liquid  
Identification ..... Positive  
Density at 20° C ..... 1.072 - 1.078

Code	Size	Packaging	Notes
479151	1l	Plastic bottle	

Mass percentage based on Na<sub>2</sub>CO<sub>3</sub>.10H<sub>2</sub>O content

## Sodium carbonate solution



Warning

3.3/2; H319  
P280-P264-P305+P351+P338-P337+P313

## Sodium carbonate solution &gt; RS-For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611079301	1l	Bottle	A 106 g/l solution ref Ph.Eur 1079301

# SOD

## Sodium carbonate 0.5 mol/l (1N)

### 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	500ml	Plastic bottle	

*52,995 g of Na<sub>2</sub>CO<sub>3</sub>. Volumetric solution ready-to-use : 1N*

## Sodium carbonate 0.05 mol/l (0.1N)

### 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	Normex	Plastic ampoule	

*5,299 g of Na<sub>2</sub>CO<sub>3</sub>. Volumetric concentrated solution to prepare 1 L of solution 0.1 N*

## Sodium chloride

NaCl  
Molecular Weight 58,44  
CAS : 7647-14-5  
EEC-N : 231-598-3

### Sodium chloride > RS-For environmental analysis

**RS**Description.....White crystals Hg.....<=0.005 ppm  
Identification.....Positive Assay (argentimetric).....>=99.5 %

Code	Size	Packaging	Notes
479671	100g	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	250g	Bottle	Ref Ph.Eur 2000600

### Sodium chloride > RS-For volumetry

**RS**

Description.....White crystals Identification.....Positive Assay.....&gt;=99.5 %

Code	Size	Packaging	Notes
479652	50g	Glass bottle	

### Sodium chloride > RPE-For analysis-ACS-Reag.Ph.Eur.-Reag.USP

**RPE**Description.....White crystals Water-insoluble matter .....<= 50 ppm  
Identification.....Positive Iodide.....<= 20 ppm Fe.....<= 2 ppm  
pH sol. 5% at 25° C .....5.0 - 9.0 K.....<= 50 ppm  
Loss on drying .....<= 0.5 % Heavy metals (Pb) .....<= 5 ppm Mg .....<= 10 ppm  
Appearance of solution.....Conform Sulphate .....<= 40 ppm Assay (argentimetric) .....99.0 - 100.5 % s.s.  
Bromide.....<= 100 ppm Al .....<= 0.2 ppm Acidity or alkalinity.....Conform  
Nitrate,Chlorate (NO<sub>3</sub>).....<= 30 ppm As .....<= 1 ppm Nitrite .....Conform  
Phosphate .....<= 5 ppm Ca .....<= 20 ppm Ferrocyanide .....<= 1 ppm  
Ba.....Conform Magnesium and alkali metals.....<= 100 ppm

Code	Size	Packaging	Notes
479686	500g	Plastic bottle	
479687	1kg	Plastic bottle	
479689	5kg	Plastic bottle	
479681	25kg	Plastic bucket	

## ▶ Sodium chloride &gt; RPE-For analysis-According to ASTM B117 ISO 9227/2006 normative

Description .....	White crystalline powder	Loss on drying .....	<= 0,5 %	Halogen (Iodide+Bromide+fluoride).....	<= 0,1 %
Identification.....	Positive	Cu .....	<= 0,3 ppm	Total impurities.....	<= 0,3 % s.s.
Heavy metals (Pb).....	<= 5 ppm	Ni .....	<= 10 ppm	Assay (argentimetric) .....	>= 99,7 % s.s.

Code	Size	Packaging	Notes
479662	5kg	Plastic bucket	
479661	25kg	Plastic bucket	

For salt spray tests

## ▶ Sodium chloride &gt; ERBAPharm-According to pharmacopoeia: Ph.Eur.-Microbiological tested

ERBAPharm

Description.....	Clear pink liquid	Iodide.....	Pass test	Al .....	<= 0,2 ppm
Identification.....	Positive	Ferrocyanide .....	Pass test	As .....	<= 1 ppm
Density at 15° C.....	0.815 ÷ 0.825	Nitrite.....	Pass test	Fe.....	<= 2 ppm
Assay(alcohol.) at 20°C.....	92 ÷ 96 %	Loss on drying .....	<= 0,5 %	K.....	<= 500 ppm
Description.....	White crystalline powder	Mg,alkal.earth met.(Ca).....	<= 100 ppm	Assay (argentimetric) .....	99,0 ÷ 100,5 %s.s
Identification.....	Positive	Bromide .....	<= 100 ppm	Total aerobic microbial count (TAMC).....	<= 100 CFU/g
Appearance of solution .....	Pass test	Phosphate .....	<= 25 ppm	Total yeasts/mould count (TYMC) .....	<= 10 CFU/g
Acidity or alkalinity .....	Pass test	Heavy metals (Pb) .....	<= 5 ppm		
Barium .....	Pass test	Sulphate .....	<= 200 ppm		

Code	Size	Packaging	Notes
368281	10kg	Plastic bottle	

## ▶ Sodium chloride &gt; ERBAPharm-According to pharmacopoeia: Ph.Eur.-FU-Ph.Franc.-BP-DAB-USP-JP

ERBAPharm

Description .....	White crystalline powder	Ferrocyanide.....	Conform Ph.Eur.	Sulphate .....	<= 200 ppm
Identification.....	Positive	Nitrite .....	Conform Ph.Eur.	Al .....	<= 0,2 ppm
Appearance of solution.....	Conform Ph.Eur.	Loss on drying .....	<= 0,5 %	As .....	<= 1 ppm
Acidity or alkalinity .....	Conform Ph.Eur.	Mg,alkal.earth met.(Ca).....	<= 100 ppm	Fe.....	<= 2 ppm
Residue solvents .....	Conform USP	Bromide.....	<= 100 ppm	K.....	<= 500 ppm
Barium.....	Conform Ph.Eur.	Phosphate .....	<= 25 ppm	Assay (argentimetric) .....	99,0 - 100,5 % s.s.
Iodide .....	Conform Ph.Eur.	Heavy metals (Pb) .....	<= 3 ppm		

Code	Size	Packaging	Notes
368257	1kg	Plastic bottle	
368259	5kg	Plastic bottle	
368253	25kg	Plastic bucket	
368254	50kg	Drum	

## ▶ Sodium chloride 5 mol/l (5N)

## ▶ Sodium chloride 5 mol/l (5N) &gt; RPE-For analysis

RPE

Clear,colourless liquid .....	Conform	Assay (potentiometry).....	4.990 - 5.010 N
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Code	Size	Packaging	Notes
502131	1l	Plastic bottle	

Content is guaranteed for standardized volumes at 20°C.

## ▶ Sodium chloride 0.1 mol/l (0,1N)

## ▶ Sodium chloride 0.1 mol/l (0,1N) &gt; RPE-NORMEX -For analysis

RPE

Description .....	Clear colourless liquid	Identification.....	Positive	Titration factor.....	0.995 - 1.005
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Code	Size	Packaging	Notes
479781	Normex	Plastic ampoule	

5,844 g NaCl. Volumetric concentrated solution to prepare 1 L of solution 0.1 N

Product specifications are subject to changes.  
Please visit our website for updates.

# SOD

## Sodium chromate anhydrous

Na<sub>2</sub>CrO<sub>4</sub>  
Molecular Weight 161,97  
CAS : 7775-11-3  
EEC-N : 231-889-5

**Classification transport**  
ONU: 3077  
Transport Hazard class: 9  
Packing group III



**Danger**

3.1.O/3; H301-3.1.I/2; H330-3.4.R/1; H334-3.5/1B; H340-3.6/1B; H350-3.7/1B; H360FD-3.9/1; H372-3.2/1B; H314-4.1.A/1; H400-4.1.C/1; H410-3.1.D/4; H312-3.4.S/1; H317-A26  
P260-P304+P340-P305+P351+P338-P342+P311-P405-P501a

### Sodium chromate anhydrous > RPE-For analysis

**RPE**

Description .....Yellow crystalline powder  
Identification.....Positive  
pH sol. 5% at 25° C .....8.6 - 9.8  
Loss on drying .....<=1 %  
Chloride .....<=20 ppm  
Water-insoluble matter .....<=30 ppm  
Sulphate.....<=50 ppm  
Al.....<=60 ppm  
Ca.....<=30 ppm  
Fe.....<=5 ppm  
K .....<=0.1 %  
Assay (oxidimetric) .....>=99 %

Code	Size	Packaging	Notes
479905	250g	Bottle	

## Sodium citrate dibasic sesquihydrate

C<sub>6</sub>H<sub>6</sub>O<sub>7</sub>Na<sub>2</sub>.1 1/2H<sub>2</sub>O  
Molecular Weight 263,10  
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 (CPMP/ICH/283/95) .....Conform

Code	Size	Packaging	Notes
367951	1kg	Plastic bottle	
367952	10kg	Plastic bottle	

## Sodium citrate tribasic

Na<sub>3</sub>C<sub>6</sub>H<sub>5</sub>O<sub>7</sub>.5,5H<sub>2</sub>O  
Molecular Weight 294,1  
CAS : 6132-04-3  
EEC-N : 200-675-3

### Sodium citrate tribasic > RE-Pure

**RE**

Description .....White crystalline powder  
Identification.....Positive  
Assay (non-aqueous medium).....>=99 % s s

Code	Size	Packaging	Notes
368007	1kg	Plastic bottle	
368009	5kg	Plastic bottle	

## Sodium citrate tribasic anhydrous

HOC(COONa)(CH<sub>2</sub>COONa)<sub>2</sub>  
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	1kg	Plastic bottle	
368102	20kg	Fibre drum	

## Sodium citrate tribasic dihydrate

HOC(COONa)(CH<sub>2</sub>COONa)<sub>2</sub>·2H<sub>2</sub>O  
 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	Chloride	<=10 ppm	As	<=0.2 ppm	Pb	<=2 ppm
Identification	Positive	Total phosphorus	<=10 ppm	Ca	<=20 ppm	Zn	<=2 ppm
Reducing iodine	Conform	Water-insoluble matter	<=30 ppm	Cu	<=2 ppm	Assay (non-aqueous medium)	>=99 %
Ready carbonizable substances	Conform	Heavy metals (Pb)	<=5 ppm	Fe	<=5 ppm		
pH sol. 5% at 25° C	7.5 - 8.7	Oxalate	<=100 ppm	K	<=250 ppm		
Ammonium	<=10 ppm	Total sulphur	<=20 ppm	Ni	<=2 ppm		

Code	Size	Packaging	Notes
479485	250g	Plastic bottle	
479487	1kg	Plastic bottle	
479488	2,5kg	Plastic bottle	
479484	50kg	Plastic bucket	

### Sodium citrate tribasic dihydrate > ERBAPharm-According to pharmacopoeia: Ph.Eur.-USP-FU-BP-DAB

ERBAPharm

Description	White crystalline powder	Ready carbonizable substances	Conform Ph.Eur.	Heavy metals (Pb)	<=10 ppm
Identification	Positive	Tartrate	Conform USP-NF	Oxalate	<=300 ppm
Appearance of solution	Conform Ph.Eur.	Water (K.F.)	11.0 - 13.0 %	Sulphate	<=150 ppm
Acidity or alkalinity	Conform Ph.Eur.	Chloride	<=50 ppm	Assay (protonometric)	99.0 - 100.5 % s.s.

Code	Size	Packaging	Notes
368057	1kg	Plastic bottle	
368052	10kg	Plastic bottle	
368051	25kg	Plastic bucket	
368054	50kg	Fibre drum	

## Sodium cobalt nitrite

Na<sub>3</sub>Co(NO<sub>2</sub>)<sub>6</sub>  
 Molecular Weight 403,94  
 CAS : 13600-98-1  
 EEC-N : 237-077-7

**Classification transport**  
 ONU: 2627  
 Transport Hazard class: 5.1  
 Packing group II



**Danger**  
 2.14/1; H271-3.2/2; H315-3.3/2; H319-3.4.S/1; H317-3.8/3; H335  
 P210-P221-P283-P304+P340-P305+P351+P338-P405-P501a

### Sodium cobalt nitrite > RPE-For analysis

RPE

Description	Dark orange powder	Suitability for K determ.	Conform	Fe	<= 5 ppm
Identification	Positive	Chloride	<= 50 ppm	K	<= 100 ppm
Diluted acetic acid insoluble matter	<= 0.02 %	Sulphate	<= 100 ppm		

Code	Size	Packaging	Notes
479833	50g	Glass bottle	

## Sodium cyanoborohydride

Synonym : Sodium cyanotrihydridoborate

Na(H<sub>3</sub>BCN)  
 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**  
 2.12/1; H260-3.2/1B; H314-EUH032  
 P231+P232-P260-P304+P340-P305+P351+P338-P405-P501a

### Sodium cyanoborohydride > RPE-For analysis

RPE

Description	White powder	Identification	Positive	Assay (iodometric)	>=90 % s s
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Code	Size	Packaging	Notes
479371	25g	Glass bottle	

# SOD

## Sodium dichloroisocyanurate dihydrate

$\text{C}_3\text{Cl}_2\text{N}_3\text{NaO}_3 \cdot 2\text{H}_2\text{O}$   
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**  
4.1.A/1; H400-4.1.C/1; H410-3.1.O/4; H302-3.3/2; H319-3.8/3; H335-EUH031  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

### Sodium dichloroisocyanurate dihydrate > RPE-For analysis

RPE

Description.....White granular powder Identification.....Positive Assay.....>= 98.0 %

Code	Size	Packaging	Notes
479921	10g	Glass bottle	

## Sodium dichromate dihydrate

$\text{Na}_2\text{Cr}_2\text{O}_7 \cdot 2\text{H}_2\text{O}$   
Molecular Weight 298  
CAS : 7789-12-0  
EEC-N : 234-190-3

**Classification transport**  
ONU: 3288  
Transport Hazard class: 6.1  
Packing group III



**Danger**  
2.1/2; H272-3.1.O/3; H301-3.1.I/2; H330-3.4.R/1; H334-3.5/1B; H340-3.6/1B; H350-3.7/1B; H360FD-3.9/1; H372-3.2/1B; H314-4.1.A/1; H400-4.1.C/1; H410-3.1.D/4; H312-3.4.S/1; H317-A26  
P210-P221-P304+P340-P305+P351+P338-P342+P311-P405-P501a

### Sodium dichromate dihydrate > RE-Pure

RE

Description.....Orange crystals Identification.....Positive Assay.....>= 99 %

Code	Size	Packaging	Notes
367007	1kg	Plastic bottle	

## Sodium diethyldithiocarbamate trihydrate

$(\text{C}_2\text{H}_5)_2\text{NCSSNa} \cdot 3\text{H}_2\text{O}$   
Molecular Weight 225,23  
CAS : 20624-25-3  
EEC-N : 205-710-6



**Warning**  
3.6/2; H351-3.1.O/4; H302  
P281-P308+P313-P330-P301+P312-P405-P501a

### Sodium diethyldithiocarbamate trihydrate > RPE-For analysis-ACS-Reag.Ph.Eur.-Reag.USP

RPE

Description.....Whyte-yellow crystals Copper sensitivity.....Conform Sodium ( $\text{Na}_2\text{SO}_4$ ).....30.5 - 32.5 %  
Identification (I.R.).....Conform Water solubility.....Conform

Code	Size	Packaging	Notes
405144	100g	Plastic bottle	

Indicator for the determination of heavy metals.

## Sodium diposphate tetrabasic ▶ Sodium pyrophosphate tetrabasic decahydrate

# S Sodium fluoride

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**  
3.1.O/3; H301-3.2/2; H315-3.3/2; H319-EUH032  
P280-P305+P351+P338-P301+P310-P330-P405-P501a

### Sodium fluoride > RPE-For analysis-ACS-ISO

RPE

Description.....White crystalline powder Alkalinity.....<=0.01 meq/g Heavy metals (Pb).....<=30 ppm K.....<=200 ppm  
Identification.....Positive Chloride.....<=50 ppm Sulphate.....<=300 ppm Assay (acidimetric).....>=99 %  
Loss on drying.....<=0.3 % Fluosilicates.....<=0.1 % Sulphite.....<=50 ppm  
Acidity.....<=0.03 meq/g Water-insoluble matter.....<=200 ppm Fe.....<=30 ppm

Code	Size	Packaging	Notes
479955	250g	Plastic bottle	
479957	1kg	Plastic bottle	
479954	25kg	Plastic bottle	

## ▶ Sodium fluoride &gt; RE-Pure

RE

Description .....White crystalline powder Heavy metals (Pb).....<= 100 ppm Assay .....>= 97 %  
 Identification.....Positive Sulphate .....<= 5000 ppm  
 Chloride .....<= 100 ppm Fe .....<= 200 ppm

Code	Size	Packaging	Notes
368457	1kg	Plastic bottle	
368451	25kg	Fibre drum	

## ▶ Sodium formate

HCOONa  
 Molecular Weight 68,01  
 CAS : 141-53-7  
 EEC-N : 205-488-0



Warning

3.3/2; H319  
 P280-P264-P305+P351+P338-P337+P313

## ▶ Sodium formate &gt; RPE-For analysis-ACS

RPE

Description .....White crystalline powder Chloride .....<= 10 ppm Fe.....<= 5 ppm  
 Identification.....Positive Sulphate .....<= 10 ppm Heavy metals (Pb).....<= 5 ppm  
 Not soluble matter .....<= 50 ppm Ca.....<= 50 ppm Assay (oxidimetric) .....>= 99.0 %

Code	Size	Packaging	Notes
480046	500g	Plastic bottle	

## ▶ Sodium gluconate

C<sub>6</sub>H<sub>11</sub>NaO<sub>7</sub>  
 Molecular Weight 218,13  
 CAS : 527-07-1  
 EEC-N : 208-407-7

## ▶ Sodium gluconate &gt; RE-Pure

RE

Description .....White powder Chloride .....<=500 ppm Assay (non-aqueous medium) .....>=98 %  
 Identification.....Positive Red.ing sugars(Glucose) .....<=1 %

Code	Size	Packaging	Notes
369582	1kg	Plastic bottle	
369581	10kg	Bag	

## ▶ Sodium glutamate acid

C<sub>5</sub>H<sub>8</sub>NO<sub>4</sub>Na.H<sub>2</sub>O  
 Molecular Weight 187  
 CAS : 142-47-2  
 EEC-N : 205-538-1

## ▶ Sodium glutamate acid &gt; RE-Pure

RE

Description .....White cryst. need.sha Specific optical rotation(C=1 HCl 6Nl) .....+23 - +25.3 °  
 Identification.....Positive Assay (ex nitrogen).....>= 98 %

Code	Size	Packaging	Notes
369667	1kg	Plastic bottle	
369663	25kg	Plastic bucket	

# SOD

## Sodium glycerophosphate pentahydrate

$C_3H_7O_6PNa_2 \cdot 5H_2O$   
Molecular Weight 216.0 (S.S)  
CAS : 819-83-0  
EEC-N : 212-464-3



### Warning

3.2/2; H315-3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

### Sodium glycerophosphate pentahydrate > ERBAPharm-According to pharmacopoeia: Ph.Eur.

ERBAPharm

Description .....White crystalline powder Fe.....<= 20 ppm Chloride .....<= 0.02 %  
Identification.....Positive Appearance of solution.....Conform Ph.Eur. Glycerol and alcohol-soluble substances.....<= 1.0 %  
Phosphate .....<= 0.1 % Alkalinity.....Conform Ph.Eur. Sulphate .....<= 0.05 %  
Heavy metals (Pb).....<= 20 ppm Water (K.F.) .....25.0 - 35.0 % Assay .....98.0 - 105.0 % anidro

Code	Size	Packaging	Notes
369447	1kg	Plastic bottle	
369449	5kg	Plastic bottle	

## Sodium hexafluorosilicate

$Na_2SiF_6$   
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

3.1.O/3; H301-3.1.D/3; H311-3.1.I/3; H331  
P261-P271-P280-P304+P340-P405-P501a

### Sodium hexafluorosilicate > RPE-For analysis

RPE

Description .....White crystalline powder Sulphate .....<=200 ppm Assay (acidimetric) .....>=98.5 %  
Identification.....Positive Heavy metals (Pb) .....<=50 ppm  
Chloride .....<=200 ppm Fe.....<=50 ppm

Code	Size	Packaging	Notes
480005	250g	Plastic bottle	

## Sodium hexametaphosphate

$(NaPO_3)_6$   
Molecular Weight 611,76  
CAS : 10124-56-8  
EEC-N : 233-343-1

### Sodium hexametaphosphate > RE-Pure

RE

Description .....White crystalline powder Chloride .....<=700 ppm Total P2O5 .....>=66 %  
Identification.....Positive Heavy metals (Pb) .....<=25 ppm As .....<=5 ppm  
pH sol. 0.25% at 25° C.....6.5 - 7.5 Sulphate .....<=0.24 % Fe .....<=500 ppm

Code	Size	Packaging	Notes
368357	1kg	Plastic bottle	
368351	10kg	Plastic bottle	
368352	25kg	Drum	

## Sodium hydrogen tartrate monohydrate

Synonyms : Sodium bitartrate monohydrate  
L(+)-Tartaric acid monosodium salt

$NaOOC(CHOH)_2COOH \cdot H_2O$   
Molecular Weight 190,09  
CAS : 526-94-3  
EEC-N : 208-400-9

### Sodium hydrogen tartrate monohydrate > RPE-For analysis



RPE

Description.....White crystals Chloride .....<= 10 ppm As .....<= 0.4 ppm Ni .....<= 2 ppm  
Identification.....Positive Total phosphorus .....<= 10 ppm Ca.....<= 100 ppm Pb .....<= 2 ppm  
pH sol. 5% at 25° C .....3.30 - 3.60 Water-insoluble matter .....<= 50 ppm Cu.....<= 2 ppm Zn.....<= 2 ppm  
Loss on drying .....9 - 10 % Heavy metals (Pb) .....<= 10 ppm Fe.....<= 10 ppm Assay (acidimetric) .....>= 99.5 %  
Ammonium .....<= 50 ppm Total sulphur.....<= 50 ppm K .....<= 100 ppm

Code	Size	Packaging	Notes
483706	500g	Plastic bottle	
483703	25kg	Bag	



## Sodium hydrosulfite

Synonyms : Sodium hypodisulfite  
Sodium dithioniteNa<sub>2</sub>S<sub>2</sub>O<sub>4</sub>  
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**  
2.11/1; H251-3.1.O/4; H302-EUH031  
P280-P235+P410-P330-P301+P312-P420-P501a


## Sodium hydrosulfite &gt; RE-Pure

RE

Description .....White crystalline powder Identification.....Positive Assay (oxidimetric) .....&gt;= 80 %

Code	Size	Packaging	Notes
370011	1kg	Metal bucket	
370014	2,5kg	Metallic can	
370012	25kg	Drum	

## Sodium hydroxide, pearls

NaOH  
Molecular Weight 40,00  
CAS : 1310-73-2  
EEC-N : 215-185-5**Classification transport**  
ONU: 1823  
Transport Hazard class: 8  
Packing group II **Danger**  
3.2/1A; H314  
P260-P280-P304+P340-P305+P351+P338-P405-P501a


## Sodium hydroxide, pearls &gt; ERBAPharm-According to pharmacopoeia: Ph.Eur.-NF

ERBAPharm

Description .....White pearls K.....Conform USP-NF Alkalinity tot. (NaOH) .....95.0 - 100.5 %  
Identification.....Positive Heavy metals (Pb).....<=30 ppm  
Not sol.matter,org.mat.....Conform USP-NF Sodium carbonate .....<=3.0 %

Code	Size	Packaging	Notes
369744	25kg	Plastic bucket	
369743	1kg	Plastic bottle	
369741	5kg	Plastic bottle	
369742	25kg	Fibre drum	

## Sodium hydroxide, pellets

NaOH  
Molecular Weight 40,00  
CAS : 1310-73-2  
EEC-N : 215-185-5**Classification transport**  
ONU: 1823  
Transport Hazard class: 8  
Packing group II **Danger**  
3.2/1A; H314  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

## Sodium hydroxide, pellets &gt; RS-RSE For electronic use

RS

Description .....White pellets Phosphate.....<=5 ppm As.....<=0.5 ppm Hg.....<=0.1 ppm Pb.....<=1 ppm  
Identification.....Positive Heavy metals (Pb).....<=2 ppm Ca.....<=5 ppm K.....<=100 ppm Zn.....<=1 ppm  
Total nitrogen.....<=3 ppm Silicate.....<=20 ppm Cd.....<=0.1 ppm Mg.....<=5 ppm Assay (alkalimetric) .....>=98.5 %  
Carbonate.....<=5000 ppm Sulphate.....<=5 ppm Cu.....<=0.5 ppm Mn.....<=0.1 ppm  
Chloride.....<=10 ppm Al.....<=2 ppm Fe.....<=3 ppm Ni.....<=2 ppm

Code	Size	Packaging	Notes
480527	1kg	Plastic bottle	
480522	5kg	Plastic bottle	
480525	25kg	Bag	

## Sodium hydroxide, pellets &gt; RPE-For analysis-ACS-ISO

RPE

Description .....White pellets Carbonate.....<= 1.0 % Sulphate.....<= 30 ppm Fe.....<= 10 ppm Mg.....<= 20 ppm  
Identification.....Positive Chloride.....<= 50 ppm Heavy metals (Ag).....<= 20 ppm Hg.....<= 0.1 ppm Ni.....<= 10 ppm  
Total nitrogen.....<= 10 ppm Phosphate.....<= 10 ppm Ca.....<= 50 ppm K.....<= 0.02 % Assay (alkalimetric) .....>= 97.0 %

Code	Size	Packaging	Notes
480507	1kg	Plastic bottle	
480509	5kg	Plastic bottle	
480502	10kg	Plastic bottle	
480508	25kg	Bag	

## Sodium hydroxide, pellets > ERBAPharm-According to pharmacopoeia: BP-NF-Ph.Eur.-JP

Description.....Drops or almost white	Carbonate.....<=2.0 %	Heavy metals (Pb).....<=30 ppm
Identification.....Positive	Chloride.....<=50 ppm	Mercury.....<=0.1 ppm
Appearance of solution.....Conform Ph.Eur.	Heavy metals (Pb).....<=20 ppm	Assay (total alkalin.).....97.0 - 100.5 %
Not sol.matter.org.mat.....Conform USP-NF	Sulphate.....<=50 ppm	Origin (BSE/TSE).....Synthesis
K.....Conform USP-NF	Fe.....<=10 ppm	Residual solvents (CPMP/ICH/283/95).....Conform
pH.....>=11.0	Potassium.....<=200 ppm	

Code	Size	Packaging	Notes
369777	1kg	Plastic bottle	
369772	5kg	Plastic bottle	
369771	20kg	Bag	
369774	25kg	Bag	

## Sodium hydroxide on silica

NaOH CAS : 1310-73-2	<b>Classification transport</b> ONU: 1823 Transport Hazard class: 8 Packing group II	 <b>Danger</b> 3.2/1A; H314-3.8/3; H335 P260-P261-P304+P340-P305+P351+P338-P405-P501a
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## Sodium hydroxide on silica > RS-For microanalysis

RS

Description.....Dark grey granules	Average grain diameter.....1.6 - 3 mm ca.
Identification.....Positive	CO2 absorption.....>=30 %

Code	Size	Packaging	Notes
424494	100g	Glass bottle	
424497	1kg	Plastic bottle	

## Sodium hydroxide solution 50%

NaOH Molecular Weight 40,00 CAS : 1310-73-2	<b>Classification transport</b> ONU: 1824 Transport Hazard class: 8 Packing group II	 <b>Danger</b> 3.2/1A; H314 P260-P280-P304+P340-P305+P351+P338-P405-P501a
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## Sodium hydroxide solution 50% > RPE-For analysis

RPE

Assay.....48 - 51.5 %	Density d20/4.....1.5 - 1.54	NaCl.....<= 0.02 %
Iron (Fe).....<= 15 mg/Kg	Na2CO3.....<= 0.7 %	

Code	Size	Packaging	Notes
P4540049	25l	Plastic tank	

S

## Sodium hydroxide solution 40%

NaOH Molecular Weight 40,00 CAS : 1310-73-2	<b>Classification transport</b> ONU: 1824 Transport Hazard class: 8 Packing group II	 <b>Danger</b> 3.2/1A; H314 P260-P280-P304+P340-P305+P351+P338-P405-P501a
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## Sodium hydroxide solution 40% > RS-For agroalimentary analysis

RS

Colour.....<= 10 APHA	Density at 20°C.....1.420 - 1.440	Total nitrogen.....<= 10 ppm
Description.....Clear colourless liquid	Assay.....39.0 - 41.0 %	

Code	Size	Packaging	Notes
502721	5l	Plastic tank	

572 g of NaOH for 1 L

## Sodium hydroxide solution 35-37%

NaOH  
Molecular Weight 40,00  
CAS : 1310-73-2

**Classification transport**

ONU: 1824  
Transport Hazard class: 8  
Packing group II

**Danger**

3.2/1A; H314  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

## ► Sodium hydroxide solution 35-37% &gt; RS-For agroalimentary analysis

RS

Description .....Clear colourless liquid Density at 20°C.....1.380 - 1.400  
Colour.....<= 10 APHA Nitrogen compounds.....<= 10 ppm

Code	Size	Packaging	Notes
502112	5l	Plastic tank	
502113	25l	Plastic tank	

500g of NaOH for 1L . According to normative T90-110

## Sodium hydroxide solution 35%

NaOH  
Molecular Weight 40,00  
CAS : 1310-73-2

**Classification transport**

ONU: 1824  
Transport Hazard class: 8  
Packing group II

**Danger**

3.2/1A; H314  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

## ► Sodium hydroxide solution 35% &gt; 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	1l	Plastic bottle	
480593	25kg	Plastic tank	

## Sodium hydroxide solution 32%

NaOH  
Molecular Weight 40,00  
CAS : 1310-73-2

**Classification transport**

ONU: 1824  
Transport Hazard class: 8  
Packing group II

**Danger**

3.2/1A; H314  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

## ► Sodium hydroxide solution 32% &gt; RS-For agroalimentary analysis

RS

Assay.....30 - 34 % Density at 20°C.....1.322 - 1.374 Fe.....<= 10 ppm

Code	Size	Packaging	Notes
524510	25kg	Plastic tank	

## ► Sodium hydroxide solution 32% &gt; 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	1l	Plastic bottle	
526521	5l	Plastic tank	
480564	10l	Plastic tank	
480562	25kg	Plastic tank	
480563	30kg	Plastic tank	

# SOD

## Sodium hydroxide solution 30%

NaOH  
Molecular Weight 39,997  
CAS : 1310-73-2

**Classification transport**  
ONU: 1824  
Transport Hazard class: 8  
Packing group II

 **Danger**  
3.2/1A; H314  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

### 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	5l	Plastic tank	

### Sodium hydroxide solution 30% > RPE-For nitrogen dosing

RPE

Description .....Clear colourless liquid Density at 20°C.....1.323 - 1.333 Assay.....29.5 - 30.5 %  
Colour.....<= 10 APHA Total nitrogen .....<= 1 ppm

Code	Size	Packaging	Notes
502731	1l	Plastic bottle	

### Sodium hydroxide solution 30% > ERBAPharm-According to pharmacopoeia: BP-NF-Ph.Eur.

ERBAPharm

Description .....Clear colourless liquid Chloride .....<=50 ppm Carbonate.....<= 0.6 %  
Colour.....<= 10 APHA Sulphate .....<=50 ppm Assay.....29.5 - 30.5 %  
Identification.....Positive Iron.....<=10 ppm  
Density at 20°C.....1.311 - 1.344 Heavy metals (Pb).....<= 20 ppm

Code	Size	Packaging	Notes
369704	1l	Plastic bottle	
369702	20l	Plastic tank	
369701000	10kg	Plastic tank	

### Sodium hydroxide solution 30% > RE-Pure

RE


Description .....Opalescent liquid Alcalinity (NaOH) .....28.0 - 32.0 % Sulphate .....<=150 ppm  
Identification.....Positive Carbonate.....<=1.2 % Fe.....<=30 ppm  
Density at 20° C.....1.306 - 1.349 Chloride .....<=300 ppm

Code	Size	Packaging	Notes
369762	10kg	Plastic tank	
369761	30kg	Plastic tank	
369766	50kg	Plastic tank	

## Sodium hydroxide solution 20% w/v

NaOH  
Molecular Weight 39,997  
CAS : 1310-73-2

**Classification transport**  
ONU: 1824  
Transport Hazard class: 8  
Packing group II

 **Danger**  
3.2/1A; H314  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

### Sodium hydroxide solution 20% w/v > RS-For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611081401	1l	Bottle	Ref Ph.Eur 1081401

### Sodium hydroxide solution 20% w/v > RPE-For analysis

RPE

Description .....Clear colourless liquid Assay (alkalimetric).....19.5 - 20.5 %  
Density at 20° C.....1.213 - 1.225 Carbonate.....<=1 %

Code	Size	Packaging	Notes
480621	1l	Plastic bottle	

## ▶ Sodium hydroxide solution 20% w/v &gt; RE-Pure

RE

Description.....Slightly opalescent liquid Colour.....&lt;= 10 APHA Assay (NaOH) .....19.5 - 20.5 %m/v

Code	Size	Packaging	Notes
526661	10l	Plastic tank	

## ▶ Sodium hydroxide solution 10% w/v

NaOH  
Molecular Weight 39,997  
CAS : 1310-73-2

**Classification transport**  
ONU: 1824  
Transport Hazard class: 8  
Packing group II



Danger

3.2/1A; H314  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

## ▶ Sodium hydroxide solution 10% w/v &gt; RS-For agroalimentary analysis

RS

Description.....Slightly opalescent liquid Identification.....Positive Assay (NaOH) .....9 - 11 %m/v

Code	Size	Packaging	Notes
508615	5l	Plastic tank	

## ▶ Sodium hydroxide solution 10% w/v &gt; RPE-For analysis

RPE

Description.....Slightly opalescent liquid Colour.....&lt;= 10 APHA Assay (NaOH) .....9.9 - 10.1 %m/v

Code	Size	Packaging	Notes
524506	5l	Plastic tank	
524507	10l	Plastic tank	

## ▶ Sodium hydroxide solution 10% w/v &gt; RE-Pure

RE

Description.....Slightly opalescent liquid Colour.....&lt;= 10 APHA Assay (NaOH) .....9.5 - 10.5 %m/v

Code	Size	Packaging	Notes
526642	5l	Plastic tank	
526641	10l	Plastic tank	

## ▶ Sodium hydroxide solution 5% w/v

NaOH  
Molecular Weight 40,00  
CAS : 1310-73-2

**Classification transport**  
ONU: 1824  
Transport Hazard class: 8  
Packing group II



Danger

3.2/1A; H314  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

## ▶ Sodium hydroxide solution 5% w/v &gt; RPE-For analysis

RPE

Description.....Slightly opalescent liquid Colour.....&lt;= 10 APHA Assay (NaOH) .....4.9 - 5.1 %m/v

Code	Size	Packaging	Notes
524502	5l	Plastic tank	
524501	10l	Plastic tank	

## ▶ Sodium hydroxide solution 5% w/v &gt; RE-Pure

RE

Description.....Slightly opalescent liquid Colour.....&lt;= 10 APHA Assay (NaOH) .....4.5 - 5.5 %m/v

Code	Size	Packaging	Notes
526632	5l	Plastic tank	
526634	10l	Plastic tank	

# SOD

## Sodium hydroxide solution 200g/l

**Classification transport**

ONU: 1824  
Transport Hazard class: 8  
Packing group II

**Danger**

3.2/1A; H314  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

### Sodium hydroxide solution 200g/l > RE-Pure

**RE**

Concentration .....199.6 - 200.4 g/l

Code	Size	Packaging	Notes
PS0858/49	25l	Plastic tank	

## Sodium hydroxide solution 40 g/l

**Classification transport**

ONU: 1824  
Transport Hazard class: 8  
Packing group II

**Danger**

3.2/1B; H314  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

### Sodium hydroxide solution 40 g/l > RE-Pure

**RE**

Concentration .....39 - 41 g/l

Code	Size	Packaging	Notes
PS0320/41	10l	Plastic tank	

## Sodium hydroxide solution

NaOH  
Molecular Weight 40,00  
CAS : 1310-73-2

**Classification transport**

ONU: 1824  
Transport Hazard class: 8  
Packing group II

**Danger**

3.2/1A; H314  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

### Sodium hydroxide solution > RS-For analysis according to Ph. Eur. Chap. 4.1.1

**RS**

Code	Size	Packaging	Notes
611081402	1l	Bottle	Ref Ph.Eur 1081402
611081404	1l	Bottle	Sodium hydroxide solution, strong Ref Ph.Eur 1081404

## Sodium hydroxide solution, methanolic

### Sodium hydroxide solution, methanolic > RS-For analysis according to Ph. Eur. Chap. 4.1.1

**RS**

Code	Size	Packaging	Notes
611081405	100ml	Bottle	Sodium hydroxide solution, methanolic R1 Ref Ph.Eur 1081405

## Sodium hydroxide 5 mol/l (5N)

**Classification transport**

ONU: 1824  
Transport Hazard class: 8  
Packing group II

**Danger**

3.2/1A; H314  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

### 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	1l	Plastic bottle	
526512	5l	Plastic tank	

Content is guaranteed for standardized volumes at 20°C.

## Sodium hydroxide 3 mol/l (3N)

## Classification transport

ONU: 1824  
 Transport Hazard class: 8  
 Packing group II



## Danger

3.2/1A; H314  
 P260-P280-P304+P340-P305+P351+P338-P405-P501a

## Sodium hydroxide 3 mol/l (3N) &gt;

ERBAPharm-Prepared from raw material according Ph.Eur

ERBAPharm

Identification (Ph.Eur) .....Conform Origine (BSE-TSE).....Conform  
 Assay (Ph.Eur) .....2.85 - 3.15 N Residual solvents (CPMP/ICH/283/95).....Conform

Code	Size	Packaging	Notes
524732	500ml	Plastic bottle	

## Sodium hydroxide 2.5 mol/l (2.5N)

## Classification transport

ONU: 1824  
 Transport Hazard class: 8  
 Packing group II



## Danger

3.2/1A; H314  
 P260-P280-P304+P340-P305+P351+P338-P405-P501a

## Sodium hydroxide 2.5 mol/l (2.5N) &gt; RPE-For analysis

RPE

Assay (potentiometry) .....2.45 - 2.55 N Na<sub>2</sub>SO<sub>4</sub>.....<= 0.006 % Lead (Pb).....<= 0.5 mg/Kg  
 Assay .....>= 99 % Heavy metals (as Pb).....<= 20 mg/Kg Mercury (Hg).....<= 0.05 mg/Kg  
 Na<sub>2</sub>CO<sub>3</sub> .....<= 0.4 % Iron (Fe).....<= 10 mg/Kg  
 Arsenic (As) .....<= 3 mg/Kg

Code	Size	Packaging	Notes
PS0594/41	10l	Plastic tank	
PS0594/42	20l	Plastic tank	
PS0594/66	200l	Polythene-metal drum	

## Sodium hydroxide 2 mol/l (2N)

## Classification transport

ONU: 1824  
 Transport Hazard class: 8  
 Packing group II



## Danger

3.2/1A; H314  
 P260-P280-P304+P340-P305+P351+P338-P405-P501a

## Sodium hydroxide 2 mol/l (2N) &gt; RPE-For analysis

RPE

Description .....Clear colourless liquid Assay (potentiometry) .....1.998 - 2.002 N

Code	Size	Packaging	Notes
480686000	500ml	Plastic bottle	
480687000	1l	Bottle	
480682000	5l	Plastic tank	
480681000	10l	Kubidos	

80 g de NaOH. Volumetric solution ready-to-use : 2 N. Traceable to NIST

## Sodium hydroxide 1.2 mol/l (1.2N)

## Classification transport

ONU: 1824  
 Transport Hazard class: 8  
 Packing group II



## Danger

3.2/1B; H314  
 P260-P280-P304+P340-P305+P351+P338-P405-P501a

## Sodium hydroxide 1.2 mol/l (1.2N) &gt; RS-For analysis

RS

Assay (potentiometry) .....1.1976 - 1.2024 N

Code	Size	Packaging	Notes
PS0736/41	10l	Plastic tank	
PS0736/42	20l	Plastic tank	
PS0736/49	25l	Plastic tank	

# SOD

## Sodium hydroxide 1 mol/l (1N)

### Classification transport

ONU: 1824  
Transport Hazard class: 8  
Packing group II



### Danger

3.2/1B; H314  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

### Sodium hydroxide 1 mol/l (1N) > RS-For analysis according to Ph. Eur. Chap. 4.2.2

RS

Code	Size	Packaging	Notes
613006301	500ml	Bottle	Ref Ph.Eur 3006300
613006300	1l	Bottle	Ref Ph.Eur 3006300

### Sodium hydroxide 1 mol/l (1N) > RS-For analysis according to USP

RS

Code	Size	Packaging	Notes
617000121	500ml	Bottle	

### Sodium hydroxide 1 mol/l (1N) > RPE-For analysis

RPE

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

Code	Size	Packaging	Notes
480717000	1l	Plastic bottle	
480711000	5l	Kubidos	
480713000	10l	Kubidos	
480714000	10l	Plastic tank	

40 g de NaOH. Volumetric solution ready-to-use : 1 N. 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	Normex	Plastic ampoule	

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 Origine (BSE-TSE).....Conform  
Assay (Ph.Eur) .....0.95 - 1.05 N Residual solvents (CPMP/CH/283/95).....Conform

Code	Size	Packaging	Notes
524621	1l	Plastic bottle	

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

## Sodium hydroxide 0.7 mol/l (N/1.4)

### Classification transport

ONU: 1824  
Transport Hazard class: 8  
Packing group II



### Danger

3.2/1B; H314  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

### 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	10l	Kubidos	



## Sodium hydroxide 0.55 mol/l (0.55N)

## Classification transport

ONU: 1824  
 Transport Hazard class: 8  
 Packing group II



## Danger

3.2/1B; H314  
 P260-P280-P304+P340-P305+P351+P338-P405-P501a

## ▶ Sodium hydroxide 0.55 mol/l (0.55N) &gt; RPE-For analysis

RPE

Description .....Clear colourless liquid Assay .....0.548 - 0.552 N

Code	Size	Packaging	Notes
524503	25l	Plastic tank	

22 g of NaOH. Volumetric solution ready-to-use : 0,55 N

## Sodium hydroxide 0.5 mol/l (N/2)

## Classification transport

ONU: 1824  
 Transport Hazard class: 8  
 Packing group II



## Danger

3.2/1B; H314  
 P260-P280-P304+P340-P305+P351+P338-P405-P501a

## ▶ Sodium hydroxide 0.5 mol/l (N/2) &gt; RPE-For analysis

RPE

Description .....Clear colourless liquid Assay (potentiometry).....0.4995 - 0.5005 N

Code	Size	Packaging	Notes
480777000	1l	Plastic bottle	
480771000	5l	Kubidos	
480772000	10l	Kubidos	

20 g of NaOH. Volumetric solution ready-to-use : 0,5 N. Traceable to NIST

## ▶ Sodium hydroxide 0.5 mol/l (N/2) &gt; RPE-NORMEX -For analysis

RPE

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

Code	Size	Packaging	Notes
480801	Normex	Plastic ampoule	

20 g of NaOH. Volumetric concentrated solution to prepare 1 L of solution 0,5 N

## ▶ Sodium hydroxide 0.5 mol/l (N/2) &gt; ERBAPharm-Prepared from raw material according Ph.Eur

ERBAPharm

Identification (Ph.Eur) .....Conform Origine (BSE-TSE).....Conform  
 Assay (Ph.Eur).....0.475 - 0.525 N Residual solvents (CPMP/ICH/283/95).....Conform

Code	Size	Packaging	Notes
524692	500ml	Plastic bottle	

## Sodium hydroxide 0.357 mol/l (0.357N)

## Classification transport

ONU: 1824  
 Transport Hazard class: 8  
 Packing group III



## Warning

3.2/2; H315-3.3/2; H319  
 P280-P264-P305+P351+P338-P332+P313-P337+P313-P362

## ▶ Sodium hydroxide 0.357 mol/l (0.357N) &gt; RPE-For analysis

RPE

Description .....Clear colourless liquid Assay (potentiometry)..... 0.3566 - 0.3574 N

Code	Size	Packaging	Notes
480837000	1l	Plastic bottle	

14,28 g of NaOH. Volumetric solution ready-to-use : 1/2,82 N. Traceable to NIST

# SOD

## Sodium hydroxide 0.25 mol/l (N/4)

**Classification transport**  
ONU: 1824  
Transport Hazard class: 8  
Packing group III



**Warning**  
3.2/2; H315-3.3/2; H319  
P280-P264-P305+P351+P338-P332+P313-P337+P313-P362

### Sodium hydroxide 0.25 mol/l (N/4) > RPE-For analysis

RPE

Description .....Clear colourless liquid Assay (potentiometry).....0.2498 - 0.2503 N

Code	Size	Packaging	Notes
480867000	1l	Plastic bottle	
480861000	5l	Kubidos	
480862000	10l	Kubidos	
480863000	25l	Plastic tank	

10 g of NaOH. Volumetric solution ready-to-use : 0,25 N. 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	5l	Plastic tank	

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

## Sodium hydroxide 0.2 mol/l (N/5)

**Classification transport**  
ONU: 1824  
Transport Hazard class: 8  
Packing group III



**Warning**  
3.2/2; H315-3.3/2; H319  
P280-P264-P305+P351+P338-P332+P313-P337+P313-P362

### 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 N

Code	Size	Packaging	Notes
502782	500ml	Plastic bottle	
502781000	10l	Plastic tank	

### Sodium hydroxide 0.2 mol/l (N/5) > RPE-For analysis

RPE

Assay (potentiometry).....0.1998 - 0.2002 N

Code	Size	Packaging	Notes
P3440015	1l	Plastic bottle	

## Sodium hydroxide 1/9 mol/l (N/9)

**Classification transport**  
ONU: 1824  
Transport Hazard class: 8  
Packing group III



**Warning**  
3.2/2; H315-3.3/2; H319  
P280-P264-P305+P351+P338-P332+P313-P337+P313-P362

### Sodium hydroxide 1/9 mol/l (N/9) > RPE-For analysis

RPE

Assay (potentiometry).....0.1109 - 0.1113 N

Code	Size	Packaging	Notes
P4500022	5l	Plastic tank	

## Sodium hydroxide 0.1 mol/l (N/10)

▶ 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	500ml	Bottle	Ref Ph.Eur 3006600
613006600	1l	Bottle	Ref Ph.Eur 3006600

## ▶ Sodium hydroxide 0.1 mol/l (N/10) &gt; RPE-For analysis

RPE

Description .....Clear colourless liquid Assay (potentiometry).....0.0999 - 0.1001 N

Code	Size	Packaging	Notes
480897000	1l	Plastic bottle	
480891000	5l	Kubidos	
480892000	10l	Kubidos	
480895000	50l	Plastic tank	

4 g of NaOH. Volumetric solution ready-to-use : 0,1 N. Traceable to NIST

## ▶ Sodium hydroxide 0.1 mol/l (N/10) &gt; RPE-NORMEX -For analysis

RPE

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

Code	Size	Packaging	Notes
480921	Normex	Plastic ampoule	

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 Origine (BSE-TSE).....Conform  
Assay (Ph.Eur).....0.095 - 0.105 N Residual solvents (CPMP/ICH/283/95).....Conform

Code	Size	Packaging	Notes
524631	1l	Plastic bottle	

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

## Sodium hydroxide 0.1 mol/l (0.1N) in ethanol

## Classification transport

ONU: 2733  
Transport Hazard class: 3  
Packing group II

## Danger

2.6/2; H225  
P210-P241-P243-P303+P361+P353-P403+P235-P501a▶ 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	100ml	Bottle	Ref Ph.Eur 3007000
613007000	1l	Bottle	Ref Ph.Eur 3007000

## Sodium hydroxide 0.01 mol/l (N/100)

## ▶ Sodium hydroxide 0.01 mol/l (N/100) &gt; RPE-For analysis

RPE

Assay (potentiometry).....0.00998 - 0.01002 N

Code	Size	Packaging	Notes
PS0215/15	1l	Plastic bottle	

# SOD

## ▶ 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	Normex	Plastic ampoule	

0,4 g of NaOH. Volumetric concentrated solution to prepare 1 L of solution 0.01 N

## Sodium hydroxide-d 1 30%

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**  
3.1.0/2; H300-3.2/1A; H314  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

## ▶ Sodium hydroxide-d 1 30% > RS-For NMR-min 99.5%

RS

Code	Size	Packaging	Notes
P5675	25ML	Glass bottle	

## Sodium hydroxide-d 1 mol/l

## ▶ Sodium hydroxide-d 1 mol/l > RS-For NMR-min 99.8%

RS

Code	Size	Packaging	Notes
P5665	25ml	Glass bottle	

## Sodium hypochlorite solution in water

NaClO  
Molecular Weight 74,443  
CAS : 7681-52-9

**Classification transport**  
ONU: 1791  
Transport Hazard class: 8  
Packing group III

**Warning**  
3.2/2; H315-3.3/2; H319-EUH031-EUH206  
P280-P264-P305+P351+P338-P332+P313-P337+P313-P362

## ▶ Sodium hypochlorite solution in water > RS-For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611081609	250ml	Bottle	Sodium hypochlorite solution, strong Ref Ph.Eur 1081600
611081600	1l	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	100ml	Bottle	Sodium hypochlorite TS

## ▶ Sodium hypochlorite solution in water > RS-For analysis according to USP

RS

Code	Size	Packaging	Notes
617000181	1l	Bottle	

## ▶ Sodium hypochlorite solution in water > RPE-For analysis

RPE

Description .....Yellow clear liquid Cr.....<=10 ppm Ni .....<=10 ppm  
Density at 20°C .....~ 1.1 Cu.....<=10 ppm Zn .....<=10 ppm  
Alcalinity (NaOH) .....<=1.8 % m/m Hg.....<=10 ppm Assay (iodometric) .....5 - 9 %(Cl)m/m  
Cd.....<=10 ppm Mn .....<=10 ppm

Code	Size	Packaging	Notes
481181	1l	Plastic bottle	
481185	30kg	Plastic tank	

Store at ambient temperature.

## ▶ Sodium hypochlorite solution in water &gt; RE-Pure

RE

Description.....Yellow clear liquid Alkalinity (NaOH).....&lt;= 1.8 % m/m Assay (iodometric)......5 - 9 % Cl

Code	Size	Packaging	Notes
370321	1l	Plastic bottle	
370323	5l	Plastic bottle	
370322	30kg	Plastic tank	

Store at ambient temperature.

## ▶ Sodium hypochlorite solution 12,5%

## Classification transport

ONU: 1791  
 Transport Hazard class: 8  
 Packing group II



## Danger

3.2/1B; H314-EUH031  
 P260-P280-P304+P340-P305+P351+P338-P405-P501a

## ▶ Sodium hypochlorite solution 12,5% &gt; RPE-For analysis

RPE

Appearance.....Slight yellow liquid French chlorometric degree.....&gt;= 44 ° Active chlorine percentage.....&gt;= 11.6 % (m/m)

Code	Size	Packaging	Notes
P9350015	1l	Plastic bottle	
P9350046	1l	Glass bottle PVC coated	
P9350049	25l	Plastic tank	

Store at ambient temperature.

## ▶ Sodium hypophosphite

NaH<sub>2</sub>PO<sub>2</sub>·H<sub>2</sub>O  
 Molecular Weight 106,06  
 CAS : 10039-56-2  
 EEC-N : 231-669-9

## ▶ Sodium hypophosphite &gt; RE-Pure

RE

Description.....Semitransparent crystals Heavy metals (Pb).....<=10 ppm Fe.....<=50 ppm  
 Identification.....Positive Sulphate.....<=500 ppm Assay (oxidimetric).....>=101 % t.q.  
 Chloride.....<=100 ppm As.....<=2 ppm

Code	Size	Packaging	Notes
481201	1kg	Plastic bottle	
481202	5kg	Plastic bottle	

## ▶ Sodium iodide

NaI  
 Molecular Weight 149,89  
 CAS : 7681-82-5  
 EEC-N : 231-679-3



## Danger

3.4.R/1; H334-3.8/3; H335-3.2/2; H315-3.3/2; H319-3.4.S/1; H317  
 P261-P304+P340-P305+P351+P338-P342+P311-P405-P501a

## ▶ Sodium iodide &gt; RPE-For analysis

RPE

Description.....White crystals Iodate.....<= 4 ppm Assay (oxidimetric).....99 - 101.5 %  
 Identification.....Positive Sulphate.....<= 150 ppm  
 Loss on drying.....<= 2 % Fe.....<= 20 ppm

Code	Size	Packaging	Notes
481163	50g	Glass bottle	
481164	500g	Plastic bottle	
481162	25kg	Drum	

Product specifications are subject to changes.  
 Please visit our website for updates.

## Sodium iodide > ERBAPharm-According to pharmacopoeia: BP-FU-Ph.Eur.-Ph.Franc.

ERBAPharm

Description .....White crystalline powder  
 Identification .....Positive  
 Alkalinity .....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	250g	Plastic bottle	
370307	1kg	Plastic bottle	
370308	50kg	Fibre drum	

## Sodium laurylsulfate

Synonym : Sodium dodecyl sulfate

CH<sub>3</sub>(CH<sub>2</sub>)<sub>11</sub>OSO<sub>3</sub>Na  
 Molecular Weight 288,49  
 CAS : 151-21-3  
 EEC-N : 205-788-1



Warning

3.1.O/4; H302-3.1.D/4; H312-3.2/2; H315-3.3/2; H319  
 P280-P305+P351+P338-P312-P330-P332+P313-P501a

## 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 (Na<sub>2</sub>SO<sub>4</sub>) .....<= 2.5 %  
 Assay (acidimetric) .....>= 92.0 %

Code	Size	Packaging	Notes
481231	250g	Plastic bottle	
481233	10kg	Plastic bucket	

## Sodium laurylsulfate > RPE-For analysis

RPE

Code	Size	Packaging	Notes
P7600517	1kg	Plastic bottle	

## Sodium merthiolate

Synonyms : Sodium ethylmercurithiosalicylate  
 Thimerosal

C<sub>9</sub>H<sub>9</sub>HgNaO<sub>2</sub>S  
 Molecular Weight 404,81  
 CAS : 54-64-8  
 EEC-N : 200-210-4

Classification transport

ONU: 2025  
 Transport Hazard class: 6.1  
 Packing group I



Danger

3.1.O/2; H300-3.1.D/1; H310-3.1.I/2; H330-3.9/2; H373-4.1.A/1; H400-4.1.C/1; H410  
 P260-P271-P302+P350-P304+P340-P405-P501a

## Sodium merthiolate > RE-Pure

RE

Description .....Pale cream powder  
 Identification .....Positive  
 Loss on drying .....<=0.5 %  
 pH sol. 1% at 25° C .....6.0 - 8.0  
 Mercurous salts .....<=0.7 %  
 Ether soluble matter .....<=0.6 %  
 Assay(mercurymetric) .....97.0 - 101.0 % s.s.

Code	Size	Packaging	Notes
370671	10g	Glass bottle	

## Sodium metabisulfite

Synonym : Sodium hydrogensulfite

Na<sub>2</sub>O<sub>5</sub>S<sub>2</sub>  
 Molecular Weight 190,1  
 CAS : 7681-57-4  
 EEC-N : 231-673-0

Classification transport

ONU: 3288  
 Transport Hazard class: 6.1  
 Packing group III



Danger

3.3/1; H318-3.1.O/4; H302-EUH031  
 P280-P264-P305+P351+P338-P330-P301+P312-P501a

## 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
481287	1kg	Plastic bottle	
481288	2,5kg	Plastic bottle	
481283	25kg	Bag	

## Sodium metabisulfite > ERBAPharm-According to pharmacopoeia: BP-NF-Ph.Eur.-FU


Description .....	White crystalline powder	Thiosulphate .....	<=500 ppm	Assay (oxidimetric) .....	95.0 - 100.5 %
Identification .....	Positive	Thiosulphate .....	Pass test Ph.Eur.	Assay (SO <sub>2</sub> ) .....	65.0 - 67.4 %
Appearance of solution .....	Conform Ph.Eur.	Heavy metals (Pb) .....	<=20 ppm	Residual solvents (CPMP/ICH/283/95) .....	Conform
pH solution 5% .....	3.5 - 5.0	As .....	<=5 ppm	Origin (BSE/TSE) .....	Synthesis
Chloride .....	<=500 ppm	Fe .....	<=20 ppm		

Code	Size	Packaging	Notes
370752	2,5kg	Plastic bottle	
370753	25kg	Fibre drum	

## Sodium metabisulfite solution 15%

Na<sub>2</sub>O<sub>5</sub>S<sub>2</sub>  
Molecular Weight 190,10  
CAS : 7681-57-4

**Classification transport**  
ONU: 3287  
Transport Hazard class: 6.1  
Packing group III

 **Danger**  
3.3/1; H318-EUH031  
P280-P305+P351+P338-P310

## Sodium metabisulfite solution 15% > RPE-For analysis

RPE



Description .....	Clear colourless liquid	Identification .....	Positive	Assay (oxidimetric) .....	14 - 16 %
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Code	Size	Packaging	Notes
481293	10l	Bottle	

## Sodium metaperiodate

NaIO<sub>4</sub>  
Molecular Weight 213,89  
CAS : 7790-28-5  
EEC-N : 232-197-6

**Classification transport**  
ONU: 1479  
Transport Hazard class: 5.1  
Packing group III

  **Danger**  
2.14/2; H272-3.2/2; H315-3.3/2; H319-3.8/3; H335  
P210-P221-P304+P340-P305+P351+P338-P405-P501a

## Sodium metaperiodate > RPE-For analysis-ACS

RPE

Description .....	White crystalline powder	Other halogens (Cl) .....	<= 0.02 %	Assay (iodometric) .....	99.8 - 100.3 % (s.s.)
Identification .....	Positive	Mn .....	<= 3 ppm		

Code	Size	Packaging	Notes
482234	100g	Glass bottle	
482236	1kg	Glass bottle	

## Sodium metaphosphate

NaPO<sub>3</sub>  
Molecular Weight 102,2  
CAS : 10361-03-2  
EEC-N : 233-782-9

## Sodium metaphosphate > RE-Pure

RE

Description .....	White crystalline powder	Heavy metals (Pb) .....	<=20 ppm	Assay .....	>=68.0 % P <sub>2</sub> O <sub>5</sub>
Identification .....	Positive	Sulphate .....	<=0.1 %		
Chloride .....	<=500 ppm	Fe .....	<=500 ppm		

Code	Size	Packaging	Notes
481557	1kg	Plastic bottle	
481552	25kg	Drum	

# SOD

## Sodium methoxide 0.1 mol/l

### Classification transport

ONU: 1986  
Transport Hazard class: 3  
Packing group II



### Danger

2.6/2; H225-3.1.D/3; H311-3.8/1; H370  
P210-P241-P307+P311-P403+P235-P405-P501a

### Sodium methoxide 0.1 mol/l > RS-For analysis according to Ph. Eur. Chap. 4.2.2

RS

Code	Size	Packaging	Notes
613007101	100ml	Bottle	Ref Ph.Eur 3007100
613007100	1l	Bottle	Ref Ph.Eur 3007100

## Sodium molybdate dihydrate

Na<sub>2</sub>MoO<sub>4</sub>·2H<sub>2</sub>O  
Molecular Weight 241,95  
CAS : 10102-40-6  
EEC-N : 231-551-7



### Warning

3.2/2; H315-3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

### Sodium molybdate dihydrate > RPE-For analysis

RPE

Description .....White crystalline powder Identification.....Positive Assay (oxidimetric) .....> 99.0 %

Code	Size	Packaging	Notes
481684	100g	Glass bottle	
481685	250g	Plastic bottle	
481687	1kg	Plastic bottle	

## Sodium nitrate

NaNO<sub>3</sub>  
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

2.14/2; H272-3.3/2; H319  
P210-P221-P280-P305+P351+P338-P337+P313-P501a

### Sodium nitrate > RPE-For analysis-ISO-ACS-Reag.Ph.Eur.-Reag.USP

RPE

Description.....White crystals Chloride .....<= 10 ppm Sulphate.....<= 30 ppm Ca.....<= 50 ppm  
Identification.....Positive Phosphate .....<= 5 ppm Heavy metals (Pb) .....<= 5 ppm Mg .....<= 20 ppm  
pH sol. 5% in H<sub>2</sub>O .....5.5 - 8.3 Iodate.....<= 5 ppm Fe.....<= 3 ppm  
Water-insoluble matter .....<= 50 ppm Nitrite .....<= 10 ppm Assay (acidimetric) .....>= 99.0 %

Code	Size	Packaging	Notes
481757	1kg	Plastic bottle	
481759	5kg	Plastic bottle	
481751	25kg	Bag	

### Sodium nitrate > RE-Pure

RE

Description.....Yellowish crystals Water-insoluble matter .....<=500 ppm Fe.....<=50 ppm  
Identification.....Positive Heavy metals (Pb) .....<=50 ppm Assay (non-aqueous medium) .....>=96 %  
Chloride .....<=0.5 % Sulphate .....<=0.5 %

Code	Size	Packaging	Notes
371809	5kg	Plastic bottle	
371802	25kg	Drum	
371804	50kg	Fibre drum	



## Sodium nitrite

NaNO<sub>2</sub>  
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**  
3.1.O/3; H301-2.14/3; H272-4.1.A/1; H400  
P210-P221-P280-P301+P310-P405-P501a

## Sodium nitrite &gt; RPE-For analysis-ACS-Reag.Ph.Eur.-Reag.USP

RPE

Description.....Yellow crystals Sulphate .....<=100 ppm K .....<=50 ppm  
Identification.....Positive Heavy metals (Pb).....<=10 ppm Assay (oxidimetric).....>=97.0 %  
Water-insoluble matter .....<=100 ppm Ca.....<=100 ppm  
Chloride .....<=50 ppm Fe.....<=10 ppm

Code	Size	Packaging	Notes
481827	1kg	Plastic bottle	
481829	5kg	Plastic bottle	

## Sodium nitrite &gt; ERBAPharm-According to pharmacopoeia : USP-BP

ERBAPharm

Description.....Yellow crystals Loss on drying .....<=0.25 % Assay (oxidimetric) .....97.0 - 101.0 % s.s.  
Identification.....Positive Heavy metals (Pb).....<=20 ppm

Code	Size	Packaging	Notes
371901	1kg	Plastic bottle	
371902	5kg	Plastic bottle	
371903	25kg	Fibre drum	

## Sodium nitrite &gt; RE-Pure

RE

Description.....Yellow crystals Heavy metals (Pb).....<=50 ppm Assay (oxidimetric) .....>=95 %  
Identification.....Positive Sulphate .....<=0.1 %  
Chloride .....<=0.1 % Fe.....<=50 ppm

Code	Size	Packaging	Notes
372109	5kg	Plastic bottle	
372102	25kg	Drum	

## Sodium nitrite 0.1 mol/l (0.1N)

## Sodium nitrite 0.1 mol/l (0.1N) &gt; RS-For analysis according to Ph. Eur. Chap. 4.2.2

RS

Code	Size	Packaging	Notes
613007200	1l	Bottle	Ref Ph.Eur 3007200

## Sodium nitrite solution 500 g/l

NaNO<sub>2</sub>  
Molecular Weight 68,99  
CAS : 7632-00-0  
EEC-N : 231-555-9

**Classification transport**  
ONU: 3219  
Transport Hazard class: 5.1  
Packing group III

**Danger**  
2.13/2; H272-3.1.O/3; H301-4.1.A/1; H400  
P210-P221-P280-P301+P310-P405-P501a

## Sodium nitrite solution 500 g/l &gt; RPE-For analysis

RPE

Assay.....490 - 510 g/L

Code	Size	Packaging	Notes
524725	2l	Plastic bottle	

# SOD

## Sodium nitroprusside dihydrate

Synonyms : Sodium nitroferricyanide  
Sodium pentacyanonitrosylferrate

Na<sub>2</sub>Fe(CN)<sub>5</sub>NO·2H<sub>2</sub>O  
Molecular Weight 297.95  
CAS : 13755-38-9  
EEC-N : 238-373-9

**Classification transport**  
ONU: 1588  
Transport Hazard class: 6.1  
Packing group III



**Danger**  
3.1.O/2; H300-3.1.I/2; H330  
P260-P271-P284-P304+P340-P405-P501a

### Sodium nitroprusside dihydrate > RPE-For analysis-ACS-Reag.Ph.Eur.-Reag.USP

RPE

Description .....Red brick crystals Chloride .....<= 200 ppm Not soluble matter .....<= 0.01 %  
Identification.....Positive Sulphate .....Conform

Code	Size	Packaging	Notes
481932	50g	Glass bottle	
481934	100g	Glass bottle	

## Sodium oxalate

(COONa)<sub>2</sub>  
Molecular Weight 134  
CAS : 62-76-0  
EEC-N : 200-550-3



**Warning**  
3.1.O/4; H302-3.1.D/4; H312  
P280-P312-P330-P363-P301+P312-P501a

### Sodium oxalate > RS-For volumetry

RS

Description .....White crystalline powder Identification.....Positive Assay.....>=99.8 %

Code	Size	Packaging	Notes
482101	50g	Glass bottle	

### Sodium oxalate > RPE-For analysis-ACS-Reag.Ph.Eur.-Reag.USP

RPE

Description .....White crystalline powder Loss on drying .....<=100 ppm Sulphate.....<=20 ppm Assay (oxidimetric) .....>=99.5 %  
Identification.....Positive Water-insoluble matter .....<=50 ppm Heavy metals (Pb) .....<=20 ppm  
Neutrality .....Conform Ammonium .....<=20 ppm Fe.....<=10 ppm  
Ready carbonizable substances .....Conform Chloride .....<=20 ppm K .....<=50 ppm

Code	Size	Packaging	Notes
482065	250g	Plastic bottle	
482067	1kg	Plastic bottle	

### Sodium oxalate > RE-Pure

RE

Description .....White crystalline powder Chloride .....<= 300 ppm Fe .....<= 100 ppm  
Identification.....Positive Sulphate .....<= 100 ppm Assay (oxidimetric) .....94 - 96 %

Code	Size	Packaging	Notes
372201	1kg	Plastic bottle	

## S Sodium perborate tetrahydrate

NaBO<sub>3</sub>·4H<sub>2</sub>O  
Molecular Weight 153,88  
CAS : 10486-00-7  
EEC-N : 231-556-4



**Danger**  
3.7/1B; H360Df-3.3/1; H318-3.8/3; H335-A26  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

### Sodium perborate tetrahydrate > RE-Pure

RE


Description .....White crystalline powder Heavy metals (Pb) .....<=100 ppm Fe .....<=500 ppm  
Identification.....Positive Sulphate .....<=0.1 % Assay (oxidimetric) .....>=96 %  
Chloride .....<=500 ppm As .....<=20 ppm

Code	Size	Packaging	Notes
482183	1kg	Plastic bottle	
482185	5kg	Plastic bottle	
482187	25kg	Plastic bucket	

## Sodium perchlorate monohydrate

NaClO<sub>4</sub>·H<sub>2</sub>O  
Molecular Weight 122,44  
CAS : 7601-89-0  
EEC-N : 231-511-9

**Classification transport**  
ONU: 1502  
Transport Hazard class: 5.1  
Packing group II

 **Danger**  
2.14/1; H271-3.1.O/4; H302  
P210-P221-P283-P280-P306+P360-P501a

### Sodium perchlorate monohydrate > RPE-For analysis-ACS

RPE

Description.....White crystals Water-insoluble matter.....<=50 ppm Fe.....<=5 ppm  
Identification.....Positive Heavy metals (Pb).....<=5 ppm K.....<=500 ppm  
pH sol. 5% at 25° C.....6.0 - 8.0 Sulphate.....<=20 ppm Assay (acidimetric).....85.0 - 90.0 %  
Chloride.....<=30 ppm Ca.....<=200 ppm


Code	Size	Packaging	Notes
482204	250g	Glass bottle	

## Sodium peroxide

Synonym : Sodium superoxide

Na<sub>2</sub>O<sub>2</sub>  
Molecular Weight 77,978  
CAS : 1313-60-6  
EEC-N : 215-209-4

**Classification transport**  
ONU: 1504  
Transport Hazard class: 5.1  
Packing group I

 **Danger**  
2.14/1; H271-3.2/1A; H314  
P210-P221-P283-P304+P340-P305+P351+P338-P405-P501a

### Sodium peroxide > RPE-For analysis

RPE

Description.....Pale yellow powder Phosphate.....<=20 ppm K.....<=200 ppm  
Identification.....Positive Total sulphur.....<=200 ppm Pb.....<=20 ppm  
Total nitrogen.....<=20 ppm Ca.....<=500 ppm Assay (oxidimetric).....>=97 %  
Chloride.....<=40 ppm Fe.....<=20 ppm


Code	Size	Packaging	Notes
482252	1kg	Metallic can	

## Sodium persulfate

Synonym : Sodium peroxodisulfate

Na<sub>2</sub>S<sub>2</sub>O<sub>8</sub>  
Molecular Weight 238,09  
CAS : 7775-27-1  
EEC-N : 231-892-1

**Classification transport**  
ONU: 1505  
Transport Hazard class: 5.1  
Packing group III

 **Danger**  
2.14/2; H272-3.4.R/1; H334-3.8/3; H335-3.2/2; H315-3.3/2; H319-3.4.S/1; H317  
P210-P221-P304+P340-P305+P351+P338-P342+P311-P405-P501a

### Sodium persulfate > RE-Pure

RE

Description.....White crystalline powder Chloride.....<=50 ppm Assay (oxidimetric).....>=97 %  
Identification.....Positive Heavy metals (Pb).....<=20 ppm  
Ammonium.....<=0.1 % Fe.....<=10 ppm

Code	Size	Packaging	Notes
482365	250g	Plastic bottle	
482367	2,5kg	Plastic bottle	
482363	25kg	Fibre drum	

## Sodium phosphate dibasic anhydrous

Na<sub>2</sub>HPO<sub>4</sub>  
Molecular Weight 141,960 (an.)  
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 Chloride.....<= 20 ppm Fe.....<= 20 ppm  
Identification.....Positive Water-insoluble matter.....<= 100 ppm Assay (alkalimetric).....>= 99.0 %  
pH sol. 5% at 25° C.....8.7 - 9.3 Heavy metals (Pb).....<= 10 ppm  
Loss on drying.....<= 0.2 % Sulphate.....<= 50 ppm

Code	Size	Packaging	Notes
480141	1kg	Plastic bottle	
480142	5kg	Plastic bottle	

## Sodium phosphate dibasic anhydrous > ERBAPharm-According to pharmacopoeia: Ph.Eur.-USP

Description .....	White powder	Residual solvents (CPMP/ICH/283/95) .....	Conform	Heavy metals (Pb) .....	<= 10 ppm
Identification .....	Positive	Not soluble matter .....	<= 0.4 %	Loss on drying at 105°C .....	<= 1.0 %
Appearance of solution .....	Conform Ph.Eur.	Chloride .....	<= 200 ppm	Assay (potentiometric) .....	98.0 - 100.5 % s.s.
Reducing substances .....	Conform Ph.Eur.	Sulphate .....	<= 500 ppm	Loss on drying at 130°C .....	<= 5.0 %
sodium dihydrogen phosphate .....	Conform Ph.Eur.	As .....	<= 2 ppm		
Origin (BSE/TSE) .....	Synthesis	Fe .....	<= 20 ppm		

Code	Size	Packaging	Notes
369212	1kg	Plastic bottle	
369211	25kg	Bag	

## Sodium phosphate dibasic dihydrate

Synonyms : Disodium hydrogen phosphate dihydrate  
Disodium phosphate

Na<sub>2</sub>HPO<sub>4</sub>·2H<sub>2</sub>O  
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 (potentiometric) .....	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
480226	500g	Plastic bottle	
480227	1kg	Plastic bottle	
480222	5kg	Plastic bottle	

## Sodium phosphate dibasic dihydrate > ERBAPharm-According to pharmacopoeia: Ph.Eur.-USP

ERBAPharm

Description .....	White crystalline powder	sodium dihydrogen phosphate .....	<= 2.5 %	Heavy metals (Pb) .....	<= 20 ppm	Assay( alkalimeter ) .....	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	5kg	Plastic bottle	

## Sodium phosphate dibasic dodecahydrate

Na<sub>2</sub>HPO<sub>4</sub>·12H<sub>2</sub>O  
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	As .....	<= 0.5 ppm	Pb .....	<= 5 ppm
Identification .....	Positive	Ca .....	<= 10 ppm	Zn .....	<= 5 ppm
pH sol. 5% at 25° C .....	9.0 - 9.4	Cd .....	<= 5 ppm	Assay (potentiometric) .....	98 - 102 %
Total nitrogen .....	<= 10 ppm	Cu .....	<= 5 ppm	Mono or Tribasic salt .....	Conform
Chloride .....	<= 5 ppm	Fe .....	<= 5 ppm	Co .....	<= 5 ppm
Water-insoluble matter .....	<= 50 ppm	K .....	<= 100 ppm	Cr .....	<= 5 ppm
Heavy metals (Pb) .....	<= 5 ppm	Mg .....	<= 10 ppm	Mn .....	<= 5 ppm
Sulphate .....	<= 50 ppm	Ni .....	<= 5 ppm		

Code	Size	Packaging	Notes
480137	1kg	Plastic bottle	
480131	5kg	Plastic bottle	
480132	10kg	Plastic container	
480135	25kg	Bag	
480134	50kg	Fibre drum	

## Sodium phosphate dibasic dodecahydrate >

ERBAPharm-According to pharmacopoeia: BP-DAB-FU-Ph.Eur.-Ph.Franc.-USP

Description.....White crystals Monobasic phosphate.....Conform Ph.Eur. Sulphate.....<=500 ppm Not soluble matter .....<= 0.4 %  
 Identification.....Positive Water (K.F.).....57.0 - 61.0 % As.....<=2 ppm Loss on drying 130° C.....55.0 - 64.0 %  
 Appearance of solution.....Conform Ph.Eur. Chloride .....<=200 ppm Fe.....<=20 ppm  
 Reducing substances.....Conform Ph.Eur. Heavy metals (Pb) .....<=10 ppm Assay (alkalimetric) .....98.5 - 100.5 % s.s.

Code	Size	Packaging	Notes
369159	5kg	Plastic bottle	
369152	25kg	Plastic bucket	
369154	50Kg	Fibre drum	

## Sodium phosphate dibasic dodecahydrate > RE-Pure

RE

Description.....White crystals pH sol. 1% at 25° C.....9.1 - 9.4 Assay (potentiometric) .....>=98.0 %  
 Identification.....Positive Water-insoluble matter.....<=0.1 %

Code	Size	Packaging	Notes
369162	25kg	Drum	

## Sodium phosphate dibasic

Synonym : Disodium hydrogen phosphate

Na<sub>2</sub>HPO<sub>4</sub>.nH<sub>2</sub>O  
 Molecular Weight 141,960 (an.)  
 CAS : 7558-79-4  
 EEC-N : 231-448-7

## Sodium phosphate dibasic > RE-Pure

RE

Description.....Grey powder Chloride .....<=500 ppm As .....<=10 ppm  
 Identification.....Positive Heavy metals (Pb) .....<=50 ppm Fe .....<=200 ppm  
 Loss on drying .....<=8 % Sulphate .....<=0.5 % Assay (acidimetric) .....>=92.0 %

Code	Size	Packaging	Notes
369257	1kg	Plastic bottle	
369252	25kg	Drum	

## Sodium phosphate monobasic dihydrate

NaH<sub>2</sub>PO<sub>4</sub>.2H<sub>2</sub>O  
 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 pH solution 5% .....4.2 - 4.5 Not soluble matter .....<=0.2 %  
 Identification.....Positive Water (K.F.) .....18.0 - 26.5 % As .....<=2 ppm  
 Appearance of solution.....Conform Ph.Eur. Loss on drying 130° C.....21.5 - 24.0 % Fe.....<=10 ppm  
 Reducing substances.....Conform Ph.Eur. Chloride .....<=140 ppm Assay (alkalimetric) .....98.0 - 100.5 % s.s.  
 Al,Ca and related sub.....Conform USP-NF Heavy metals (Pb) .....<=10 ppm  
 Organic volatile impurities.....Conform USP-NF Sulphate .....<=300 ppm

Code	Size	Packaging	Notes
369139	5kg	Plastic bottle	
369132	25kg	Fibre drum	

# SOD

## Sodium phosphate monobasic monohydrate

NaH<sub>2</sub>PO<sub>4</sub>·H<sub>2</sub>O  
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  
Identification ..... Positive  
pH sol. 5% in H<sub>2</sub>O ..... 4.1 - 4.5  
Water-insoluble matter ..... <= 100 ppm  
Chloride ..... <= 5 ppm  
Heavy metals (Pb) ..... <= 10 ppm  
Sulphate ..... <= 30 ppm  
Ca ..... <= 50 ppm  
Fe ..... <= 10 ppm  
K ..... <= 100 ppm  
Assay ..... 98.0 - 102.0 %

Code	Size	Packaging	Notes
480086	500g	Plastic bottle	
480087	1kg	Plastic bottle	
480082	5kg	Plastic bottle	
480081	25kg	Bag	

### Sodium phosphate monobasic monohydrate > ERBAPharm-According to pharmacopoeia: USP

ERBAPharm

Description ..... White crystalline powder  
Identification ..... Positive  
Al, Ca and related sub. .... Conform USP-NF  
pH (1:20) ..... 4.1 - 4.5  
Water (K.F.) ..... 10.0 - 15.0 %  
Chloride ..... <= 140 ppm  
Heavy metals (Pb) ..... <= 20 ppm  
Sulphate ..... <= 0.15 %  
Not soluble matter ..... <= 0.2 %  
As ..... <= 8 ppm  
Assay (alkalimetric) ..... 98.0 - 103.0 % s.s.  
Origin (BSE/TSE) ..... Synthesis  
Residual solvents (CPMP/ICH/283/95) ..... Conform

Code	Size	Packaging	Notes
369141	5kg	Plastic bottle	
369142	25kg	Bag	

## Sodium phosphate tribasic

Na<sub>3</sub>PO<sub>4</sub>·12H<sub>2</sub>O  
Molecular Weight 380,12  
CAS : 10101-89-0  
EEC-N : 231-509-8

**Classification transport**  
ONU: 3262  
Transport Hazard class: 8  
Packing group III



**Warning**

3.2/2; H315-3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

### Sodium phosphate tribasic > 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	25kg	Bag	

### Sodium phosphate tribasic > 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
480277	1kg	Plastic bottle	
480272	5kg	Plastic bottle	
480271	25kg	Bag	

### Sodium phosphate tribasic > 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	5kg	Plastic bottle	
369301	25kg	Plastic bucket	

## Sodium o-Phosphite pentahydrate

Na<sub>2</sub>HPO<sub>3</sub>·5H<sub>2</sub>O  
Molecular Weight 216,00  
CAS : 13517-23-2

### Sodium o-Phosphite pentahydrate > RPE-For analysis

RPE

Description .....White crystalline powder pH 10% at 25° C .....8.5 - 9.5 Assay (oxidimetric) .....97.0 - 102.0 %  
Identification .....Positive Water .....38.0 - 45.0 %  
Water solution 20% .....Complete Heavy metals (Pb) .....<=25 ppm

Code	Size	Packaging	Notes
482042	25kg	Drum	
482041	50kg	Fibre drum	

## Sodium phosphomolybdate

Na<sub>3</sub>PO<sub>4</sub>·12MoO<sub>3</sub>  
Molecular Weight 1891,20  
CAS : 1313-30-0  
EEC-N : 215-206-8

### Sodium phosphomolybdate > RPE-For analysis

RPE

Description .....White granular powder Water-insoluble matter .....<=100 ppm Ca .....<=200 ppm  
Identification .....Positive Heavy metals (Pb) .....<=10 ppm Fe .....<=10 ppm  
Ammonium .....<=20 ppm Nitrate .....<=100 ppm K .....<=200 ppm  
Chloride .....<=30 ppm Sulphate .....<=80 ppm

Code	Size	Packaging	Notes
480324	100g	Glass bottle	

## Sodium pyrophosphate decahydrate

Synonyms : *Tetrasodium pyrophosphate*  
*Sodium diphosphate tetrabasic*

Na<sub>4</sub>P<sub>2</sub>O<sub>7</sub>·10H<sub>2</sub>O  
Molecular Weight 446,06  
CAS : 13472-36-1  
EEC-N : 231-767-1



Warning

3.2/2; H315-3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

### Sodium pyrophosphate decahydrate > RPE-For analysis-ACS-Reag.Ph.Eur.-Reag.USP

RPE

Description .....White crystals Chloride .....<=20 ppm Fe .....<=10 ppm  
Identification .....Positive Water-insoluble matter .....<=100 ppm Assay (acidimetric) .....99.0 - 103.0 %  
pH sol. 5% at 25° C .....9.5 - 10.5 Heavy metals (Pb) .....<=10 ppm  
Total nitrogen .....<=10 ppm Sulphate .....<=50 ppm

Code	Size	Packaging	Notes
482427	1kg	Plastic bottle	
482422	10kg	Plastic bottle	
482421	25kg	Bag	

## Sodium salicylate

HOC<sub>6</sub>H<sub>4</sub>COONa  
Molecular Weight 160,11  
CAS : 54-21-7  
EEC-N : 200-198-0



Warning

3.1.0/4; H302  
P264-P270-P330-P301+P312-P501a

### Sodium salicylate >

ERBAPharm

ERBAPharm-According to pharmacopoeia: Ph.Eur.-USP-FU-Ph.Franc.-BP-DAB

Description .....White crystalline powder Sulphite+thiosul. (SO<sub>2</sub>) .....Conform USP-NF Heavy metals (Pb) .....<= 20 ppm  
Identification .....Positive Organic volatile impurities .....Conform USP-NF Sulphate .....<= 0.06 %  
Appearance of solution .....Conform Ph.Eur. Loss on drying .....<= 0.5 % Assay (non-aqueous medium) .....99.0 - 100.5 % s.s.  
Acidity .....Conform Ph.Eur. Chloride .....<= 0.02 % Water (K.F.) .....<= 0.5 %

Code	Size	Packaging	Notes
373607	1kg	Plastic bottle	
373603	25kg	Plastic bucket	

# SOD

## Sodium silicate

Na<sub>2</sub>O.xSiO<sub>2</sub>  
Molecular Weight 182,13 (Anhydre)  
CAS : 1344-09-8  
EEC-N : 215-687-4



**Danger**

3.3/1; H318-3.1.0/4; H302-3.8/3; H335-3.2/2; H315  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

### Sodium silicate > RE-Pure

RE

Description .....White powder      Loss on ignition .....<=21 %  
Identification .....Positive      Assay(Na<sub>2</sub>O 2SiO<sub>2</sub> anydr) .....>=72 %

Code	Size	Packaging	Notes
373908	2,5kg	Plastic bottle	
373902	25kg	Drum	

## Sodium silicate solution 35% (40°Bé)

Na<sub>2</sub>O.5SiO<sub>2</sub>  
CAS : 1344-09-8



**Danger**

3.2/1B; H314-3.8/3; H335  
P260-P261-P304+P340-P305+P351+P338-P405-P501a

### Sodium silicate solution 35% (40°Bé) > RE-Pure

RE

Description .....Opalescent yellow liquid      Identification .....Positive      Assay(SiO<sub>2</sub>/Na<sub>2</sub>O) .....3.25 - 3.45

Code	Size	Packaging	Notes
374508	75kg	Plastic tank	

## Sodium stannate trihydrate

Na<sub>2</sub>SnO<sub>3</sub>.3H<sub>2</sub>O  
Molecular Weight 266,71  
CAS : 12209-98-2  
EEC-N : 235-030-5



**Warning**

3.2/2; H315-3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

### Sodium stannate trihydrate > RE-Pure

RE

Description .....White hazel powder      As .....<= 100 ppm  
Identification .....Positive      Assay (gravimetric) .....>=42 % Sn

Code	Size	Packaging	Notes
377207	1kg	Plastic bottle	
377202	25kg	Drum	

## S Sodium stearate vegetal

CH<sub>3</sub>(CH<sub>2</sub>)<sub>16</sub>COONa  
Molecular Weight 306,46  
CAS : 822-16-2  
EEC-N : 212-490-5



**Warning**

3.2/2; H315-3.3/2; H319  
P280-P264-P305+P351+P338-P332+P313-P337+P313-P362

### Sodium stearate vegetal > ERBAPharm-According to pharmacopoeia: FU-NF

ERBAPharm

Description .....White powder      Loss on drying .....<=5.0 %      Assay (sodium stearate) .....>=40.0 % (GLC)  
Identification .....Positive      Acidity or alkalinity .....0.85 - 1.2 %      Assay(Na stear.+ palm.) .....>=90.0 % (GLC)  
Alcohol not sol. matter .....Conform F.U.      Acidity ind. fat acids .....196 - 211      Origin (BSE/TSE) .....Vegetable  
Organic volatile impurities .....Conform USP-NF      Indic.iiodine d/fat .....<=4.0      Residual solvents (CPMP/ICH/283/95) .....Conform

Code	Size	Packaging	Notes
377512	2,5Kg	Plastic bottle	
377515	25kg	Fibre drum	



## Sodium succinate hexahydrate

(CH<sub>2</sub>COONa)<sub>2</sub>·6H<sub>2</sub>O  
Molecular Weight 270,15  
CAS : 6106-21-4  
EEC-N : 205-778-7

### Sodium succinate hexahydrate > RPE-For analysis

RPE

Description .....	White crystalline powder	Phosphate .....	<=20 ppm	Ca .....	<=50 ppm	Pb .....	<=2 ppm
Identification .....	Positive	Water-insoluble matter .....	<=50 ppm	Cu .....	<=2 ppm	Zn .....	<=2 ppm
pH sol. 5% at 25° C .....	8,4 - 9,2	Heavy metals (Pb) .....	<=5 ppm	Fe .....	<=5 ppm	Assay (non-aqueous medium) .....	>=99 %
Ammonium .....	<=10 ppm	Sulphate .....	<=50 ppm	K .....	<=50 ppm		
Chloride .....	<=10 ppm	As .....	<=1 ppm	Ni .....	<=2 ppm		

Code	Size	Packaging	Notes
483555	250g	Plastic bottle	
483557	2,5kg	Plastic bottle	
483551	25kg	Bag	

## Sodium sulfate anhydrous

Na<sub>2</sub>SO<sub>4</sub>  
Molecular Weight 142,04  
CAS : 7757-82-6  
EEC-N : 231-820-9

### Sodium sulfate anhydrous > RS-For anhydrification

RS

Loss on drying .....

<= 1 %	Assay .....	>= 99 %
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Code	Size	Packaging	Notes
P1320017	1kg	Plastic bottle	
P1320027	5kg	Plastic bottle	
P1320044	25kg	Plastic bucket	

### Sodium sulfate anhydrous > RS-For residual pesticides analysis

RS

Description .....	White crystalline powder	Loss on ignition .....	<=0.5 %	Chloride .....	<=10 ppm	As .....	<=1 ppm
Identification .....	Positive	Total nitrogen .....	<=5 ppm	Water-insoluble matter .....	<=50 ppm	Fe .....	<=10 ppm
pH sol. 5% in H <sub>2</sub> O .....	5,2 - 9,2	Calcium + Magnesium .....	<= 150 ppm	Heavy metals (Pb) .....	<=5 ppm	Assay (acidimetric) .....	>=99.0 %

Code	Size	Packaging	Notes
483025	500g	Glass bottle	

### Sodium sulfate anhydrous > RPE-Powder-For analysis-ACS-ISO

RPE

Description .....	White crystalline powder	Water-insoluble matter .....	<=100 ppm	Heavy metals (Pb) .....	<=5 ppm	Mg .....	<=50 ppm
Identification .....	Positive	Total nitrogen .....	<=5 ppm	Ca .....	<=100 ppm	Assay (acidimetric) .....	>=99.0 %
pH sol. 5% in H <sub>2</sub> O .....	5,2 - 9,2	Chloride .....	<=10 ppm	Fe .....	<=10 ppm		
Loss on ignition .....	<=0.5 %	Phosphate .....	<=10 ppm	K .....	<=100 ppm		

Code	Size	Packaging	Notes
483005	500g	Plastic bottle	
483007	1kg	Plastic bottle	
483009	5kg	Plastic bottle	
483001	25kg	Bag	

### Sodium sulfate anhydrous > RPE-Crystals-For analysis-ACS-ISO

RPE

Description .....	White crystals	Total nitrogen .....	<= 5 ppm	Heavy metals (Pb) .....	<= 5 ppm	Mg .....	<= 50 ppm
Identification .....	Positive	Phosphate .....	<= 10 ppm	Ca .....	<= 100 ppm	Assay (acidimetric) .....	>= 99.0 %
pH sol. 5% in H <sub>2</sub> O .....	5,2 - 9,2	Chloride .....	<= 10 ppm	Fe .....	<= 10 ppm		
Loss on ignition .....	<= 0.5 %	Water-insoluble matter .....	<= 100 ppm	K .....	<= 100 ppm		

Code	Size	Packaging	Notes
483017	1kg	Plastic bottle	
483019	5kg	Plastic bottle	
483011	25kg	Bag	

Product specifications are subject to changes.  
Please visit our website for updates.

# SOD

## Sodium sulfate decahydrate

Na<sub>2</sub>SO<sub>4</sub>·10H<sub>2</sub>O  
Molecular Weight 322,19  
CAS : 7727-73-3  
EEC-N : 231-820-9

### Sodium sulfate decahydrate > RPE-For analysis-ACS

RPE

Description.....White crystals Chloride .....<=5 ppm Ca.....<=50 ppm Assay (acidimetric) .....>=99 %  
Identification.....Positive Phosphate .....<=5 ppm Fe.....<=5 ppm  
pH solution 5%.....5.2 - 9.2 Water-insoluble matter .....<=100 ppm K .....<=50 ppm  
Total nitrogen.....<=3 ppm Heavy metals (Pb) .....<=3 ppm Mg .....<=30 ppm

Code	Size	Packaging	Notes
482957	1kg	Plastic bottle	
482959	5kg	Plastic bottle	

## Sodium sulfide nonahydrate

Na<sub>2</sub>S·9H<sub>2</sub>O  
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**  
3.2/1B; H314-EUH031  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

### Sodium sulfide nonahydrate > RPE-For analysis-ACS

RPE

Description.....Colourless crystals or yeast, yellow Ammonium .....<= 50 ppm Sulphite and thiosulphate (SO<sub>4</sub>).....<= 0.1 %  
Identification.....Positive Fe.....Conform Assay (oxidimetric) .....>= 98.0 %

Code	Size	Packaging	Notes
483485	250g	Plastic bottle	
483487	1kg	Plastic bottle	
483489	5kg	Plastic bottle	

## Sodium sulfide trihydrate

Na<sub>2</sub>S·3H<sub>2</sub>O  
Molecular Weight 132,00  
CAS : 42607-30-7  
EEC-N : 215-211-5

**Classification transport**  
ONU: 1849  
Transport Hazard class: 8  
Packing group II



**Danger**  
3.1.O/3; H301-3.2/1B; H314-EUH031  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

### Sodium sulfide trihydrate > RE-Pure

RE

Description.....yellow flakes Identification.....Positive Assay (oxidimetric) .....>=97 %

Code	Size	Packaging	Notes
376401	2,5kg	Plastic bottle	
376403	25kg	Fibre drum	

## Sodium sulfite anhydrous

Na<sub>2</sub>SO<sub>3</sub>  
Molecular Weight 126,04  
CAS : 7757-83-7  
EEC-N : 231-821-4

EUH031

### Sodium sulfite anhydrous > RPE-For analysis-ACS

RPE

Description.....White powder Free alkalinity .....<=0.03 meq/g Heavy metals (Pb) .....<=10 ppm  
Identification.....Positive Chloride .....<=200 ppm Fe.....<=10 ppm  
Acidity.....Conform Water-insoluble matter .....<=50 ppm Assay (oxidimetric) .....>=98.0 %

Code	Size	Packaging	Notes
483257	1kg	Plastic bottle	
483258	2,5kg	Plastic bottle	
483252	25kg	Drum	

## Sodium sulfite anhydrous > ERBAPharm-According to pharmacopoeia: BP-Ph.Eur.

Description	White powder	Thiosulphate	<=0.1 %	Assay (oxidimetric)	95.0 - 100.5 %
Identification	Positive	Fe	<=10 ppm	Origin (BSE/TSE)	Synthesis
Appearance of solution	Conform Ph.Eur.	Se	<=10 ppm	Residual solvents (CPMP/ICH/283/95)	Conform
Heavy metals (Pb)	<=10 ppm	Zn	<=25.0 ppm		

Code	Size	Packaging	Notes
376008	2,5kg	Plastic bottle	
376008	2,5kg	Plastic bottle	
376002	10kg	Plastic bottle	
376003	25kg	Plastic bucket	
376004	50kg	Plastic bucket	

## Sodium sulfide solution

### Classification transport

ONU: 1760  
 Transport Hazard class: 8  
 Packing group III



### Danger

3.2/1B; H314-EUH031  
 P260-P280-P304+P340-P305+P351+P338-P405-P501a

## Sodium sulfide solution > RS-For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611083901	100ml	Bottle	Ref Ph.Eur 1083901
611083902	100ml	Bottle	Sodium sulfide solution R1 Ref Ph.Eur 1083902

## Sodium sulfocyanate

Synonym : Sodium thiocyanate

NaSCN  
 Molecular Weight 81,07  
 CAS : 540-72-7  
 EEC-N : 208-754-4



### Warning

3.1.0/4; H302-EUH032  
 P264-P270-P330-P301+P312-P501a

## Sodium sulfocyanate > RPE-For analysis-ACS

RPE

Description	White crystals	Chloride	<=100 ppm	Sulphide	<=10 ppm
Identification	Positive	Water-insoluble matter	<=50 ppm	Fe	<=2 ppm
Ammonium	<=20 ppm	Heavy metals (Pb)	<=5 ppm	Assay (argentimetric)	>=98.0 %
Carbonate	<=0.2 %	Sulphate	<=100 ppm		

Code	Size	Packaging	Notes
483354	100g	Plastic bottle	
483356	500g	Plastic bottle	
483358	5kg	Plastic bottle	

## Sodium tartrate dihydrate

(CHOHCOONa)<sub>2</sub>·2H<sub>2</sub>O  
 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	Ammonium	<=30 ppm	Heavy metals (Pb)	<=5 ppm	Assay (non-aqueous medium)	99.0 - 101.0 %
Identification	Positive	Chloride	<=5 ppm	Sulphate	<=50 ppm		
pH sol. 5% at 25° C	7.0 - 9.0	Phosphate	<=5 ppm	Ca	<=100 ppm		
Loss on drying 150° C	15.61 - 15.71 %	Water-insoluble matter	<=50 ppm	Fe	<=10 ppm		

Code	Size	Packaging	Notes
483561	100g	Plastic bottle	

# SOD

## Sodium tartrate dihydrate > RPE-For analysis-ACS-Reag.Ph.Eur.-Reag.USP

RPE

Description .....White crystalline powder Ammonium .....<= 30 ppm Heavy metals (Pb) .....<= 5 ppm Assay (non-aqueous medium) .....99.0 - 101.0 %  
 Identification .....Positive Chloride .....<= 5 ppm Sulphate .....<= 50 ppm  
 pH sol. 5% at 25° C .....7.0 - 9.0 Phosphate .....<= 5 ppm Ca .....<= 100 ppm  
 Loss on drying at 150°C .....15.61 - 15.71 % Water-insoluble matter .....<= 50 ppm Fe .....<= 10 ppm

Code	Size	Packaging	Notes
483636	500g	Plastic bottle	
483637	1kg	Plastic bottle	

## Sodium tetraborate anhydrous

Na<sub>2</sub>B<sub>4</sub>O<sub>7</sub>  
 Molecular Weight 201,22  
 CAS : 1330-43-4  
 EEC-N : 215-540-4



Danger

3.7/1B; H360FD-A26  
 P281-P201-P202-P308+P313-P405-P501a

## Sodium tetraborate anhydrous > RPE-For analysis

RPE

Description .....White crystals Heavy metals (Pb) .....<= 50 ppm Assay (acidimetric) .....>= 98.0 %  
 Identification .....Positive Chloride .....<= 500 ppm Ca .....<= 500 ppm  
 Chloride .....<= 500 ppm Fe .....<= 100 ppm

Code	Size	Packaging	Notes
483736	1kg	Plastic bottle	

## Sodium tetraborate decahydrate

Synonyms : Borax decahydrate  
 Sodium borate decahydrate

Na<sub>2</sub>B<sub>4</sub>O<sub>7</sub>·10H<sub>2</sub>O  
 Molecular Weight 381,37  
 CAS : 1303-96-4  
 EEC-N : 215-540-4



Danger

3.7/1B; H360FD-A26  
 P281-P201-P202-P308+P313-P405-P501a

## Sodium tetraborate decahydrate > RPE-For analysis-ACS-ISO

RPE

Description .....White crystals Phosphate .....<=5 ppm Ca .....<=50 ppm Ni .....<=2 ppm  
 Identification .....Positive Water-insoluble matter .....<=30 ppm Cu .....<=2 ppm Pb .....<=2 ppm  
 pH sol. M/100 at 25° C .....9.00 - 9.50 Heavy metals (Pb) .....<=5 ppm Fe .....<=5 ppm Zn .....<=2 ppm  
 Carbonate .....<=50 ppm Sulphate .....<=10 ppm K .....<=50 ppm Assay (acidimetric) .....>=99.5 %  
 Chloride .....<=5 ppm As .....<=1 ppm Mg .....<=10 ppm

Code	Size	Packaging	Notes
478816	500g	Plastic bottle	
478817	1kg	Plastic bottle	
478819	5kg	Plastic bottle	
478812	25kg	Drum	

## Sodium tetraborate decahydrate >

ERBAPharm

ERBAPharm-According to pharmacopoeia: BP-FU-NF-Ph.Eur.-Ph.Franc.

Description .....White crystalline powder Carbonates and bicarb. ....Conform USP-NF Heavy metals (Pb) .....<= 20 ppm Ca .....<= 100 ppm  
 Identification .....Positive pH sol. 4% at 25 °C .....9.0 - 9.6 Sulphate .....<= 50 ppm Fe .....<= 4 ppm  
 Appearance of solution .....Conform Ph.Eur. Ammonium .....<= 10 ppm As .....<= 5 ppm Assay (alkalimetric) .....99.0 - 103.0 %

Code	Size	Packaging	Notes
367207	1kg	Plastic bottle	
367209	5kg	Plastic bottle	
367201	25kg	Plastic bucket	
367202	25kg	Bag	

## Sodium tetraphenylborate

Na[B(C<sub>6</sub>H<sub>5</sub>)<sub>4</sub>]  
 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

3.1.O/3; H301  
 P264-P270-P301+P310-P330-P405-P501a

## Sodium tetraphenylborate > RPE-For analysis-ACS

RPE

Description .....White crystalline powder Appearance of solution .....Conform Assay (gravimetric) .....>=99.5 %  
 Identification .....Positive Loss on drying .....<=0.5 %

Code	Size	Packaging	Notes
483758	5g	Glass bottle	
483751	25g	Glass bottle	

Reagent for the precipitation titration and potassium.

## Sodium thiosulfate anhydrous

Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>  
Molecular Weight 158,11  
CAS : 7772-98-7  
EEC-N : 231-867-5

### Sodium thiosulfate anhydrous > RE-Pure

RE

Description ..... White crystalline powder Sulphat + sulphit (SO<sub>4</sub>) ..... <= 1 % Assay (oxidimetric) ..... >= 98 %  
Identification ..... Positive Loss on drying ..... <= 0.5 % Fe ..... <= 50 ppm  
pH sol 10% ..... 6.5 - 9.5 Heavy metals (Pb) ..... <= 50 ppm

Code	Size	Packaging	Notes
378377	1kg	Plastic bottle	
378372	10kg	Plastic bottle	

## Sodium thiosulfate pentahydrate

Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>·5H<sub>2</sub>O  
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 Water-insoluble matter ..... <= 50 ppm Appearance of solution ..... Conform Heavy metals (Pb) ..... <= 10 ppm  
Identification ..... Positive Sulphat + sulphit (SO<sub>4</sub>) ..... <= 0.1 % Calcium ..... Conform Assay (iodometric) ..... 99.0 - 100.5 % s.s.  
pH sol. 5% at 25° C ..... 6.0 - 8.4 Sulphide ..... <= 1 ppm pH sol. 10% at 20° C ..... 6.0 - 8.4  
Total nitrogen ..... <= 20 ppm Assay (iodometric) ..... 99.5 - 101.0 % Loss on drying ..... 32.0 - 37.0 %

Code	Size	Packaging	Notes
483827	1kg	Plastic bottle	
483829	5kg	Plastic bottle	
483821	25kg	Bag	

### Sodium thiosulfate pentahydrate > ERBAPharm-According to pharmacopoeia: Ph.Eur.-USP-FU-Ph.Franc.-BP

ERBAPharm

Description ..... Colourless crystals Ca ..... Conform USP-NF Heavy metals (Pb) ..... <= 10 ppm  
Identification ..... Positive pH sol 10% ..... 6.0 - 8.4 Assay (iodometric) ..... 99.0 - 100.5 % s.s.  
Appearance of solution ..... Conform Ph.Eur. Loss at 45° C ..... 32.0 - 37.0 % Assay (iodometric) ..... 99.0 - 101.0 % t.q.  
Sulphide ..... Conform Ph.Eur. Sulphat + sulphit (SO<sub>4</sub>) ..... <= 0.2 %

Code	Size	Packaging	Notes
377907	1kg	Plastic bottle	
377909	5kg	Plastic bottle	
377901	25kg	Bag	

### Sodium thiosulfate pentahydrate > RE-Pure

RE

Description ..... Colourless crystals Heavy metals (Pb) ..... <= 10 ppm Assay (oxidimetric) ..... >= 99 %  
Identification ..... Positive S ..... <= 20 ppm Fe ..... <= 2 ppm  
Ins., Ca, Mg & ppt NH<sub>4</sub>OH ..... <= 0.2 %

Code	Size	Packaging	Notes
378207	1kg	Plastic bottle	
378209	5kg	Plastic bottle	
378202	25kg	Drum	
378204	50kg	Plastic bucket	

## Sodium thiosulfate 1 mol/l (1N)

### 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	500ml	Plastic bottle	

158,11 g of Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>. Volumetric solution ready-to-use : 1 N

# SOD

## Sodium thiosulfate 0.5 mol/l (0.5N)

### Sodium thiosulfate 0.5 mol/l (0.5N) > RPE-For analysis

RPE

Assay (potentiometry).....0.499 - 0.501 N

Code	Size	Packaging	Notes
P3530015	1l	Plastic bottle	

## Sodium thiosulfate 0.2 mol/l (0.2N)

### Sodium thiosulfate 0.2 mol/l (0.2N) > RPE-For analysis

RPE

Assay (potentiometry).....0.1998 - 0.2002 N

Code	Size	Packaging	Notes
P3520022	5l	Plastic tank	

## Sodium thiosulfate 0.1 mol/l (0.1N)

### 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	500ml	Plastic bottle	Ref Ph.Eur 3007300
613007300	1l	Plastic bottle	Ref Ph.Eur 3007300

### Sodium thiosulfate 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
484077000	1l	Glass bottle	
484071000	10l	Kubidos	

15,811 g of Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>. Volumetric solution ready-to-use : 0,1 N. 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	Normex	Plastic ampoule	

Volumetric concentrated solution to prepare 1 L of solution 0.1 M

## Sodium thiosulfate 0.0394 mol/l (0.0394N)

### 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	2,5l	Glass bottle	

## Sodium thiosulfate 0.0197 mol/l (0.0197N)

## Sodium thiosulfate 0.0197 mol/l (0.0197N) &gt; RPE-For analysis

RPE

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

Code	Size	Packaging	Notes
484155	2,5l	Glass bottle	

## Sodium thiosulfate 0.01 mol/l (0.01N)

## Sodium thiosulfate 0.01 mol/l (0.01N) &gt; RPE-NORMEX -For analysis

RPE

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

Code	Size	Packaging	Notes
484161	Normex	Plastic ampoule	

1,581 g Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>. Volumetric concentrated solution to prepare 1 L of solution 0.01 N

## Sodium tungstate dihydrate

Synonym : Tungstic acid sodium salt dihydrate

Na<sub>2</sub>WO<sub>4</sub>·2H<sub>2</sub>O  
 Molecular Weight 329,86  
 CAS : 10213-10-2  
 EEC-N : 236-743-4



Danger

3.1.0/3; H301  
 P264-P270-P301+P310-P330-P405-P501a

## Sodium tungstate dihydrate &gt; 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	50g	Glass bottle	
484236	500g	Plastic bottle	

## Sodium tungstate solution 10%

Na<sub>2</sub>WO<sub>4</sub>·2H<sub>2</sub>O  
 CAS : 10213-10-2  
 EEC-N : 236-743-4

## Sodium tungstate solution 10% &gt; RPE-For analysis

RPE

Description .....Clear colourless liquid Identification.....Positive Density at 20° C.....1.086 - 1.094

Code	Size	Packaging	Notes
484282	500ml	Plastic bottle	

## Solvent Plus

Molecular Weight 176,00  
 CAS : 68551-19-9  
 EEC-N : 271-369-5

## Classification transport

ONU: 1993  
 Transport Hazard class: 3  
 Packing group III



Danger

3.10/1; H304-2.6/3; H226-EUH066  
 P210-P241-P301+P310-P403+P235-P405-P501a

## Solvent Plus &gt; RS-For histology

RS

Description .....Clear liquid Density at 15° C.....0.764 - 0.774 Aromatic compounds .....<= 0.05 %  
 Identification.....Positive Boiling point .....182 - 208 °C

Code	Size	Packaging	Notes
446187	2,5l	Glass bottle	
446181	5l	Plastic tank	

## Solutol HS15 at 5%



**Warning**

3.4.S/1; H317

P261-P280-P363-P333+P313-P302+P352-P501a

### Solutol HS15 at 5% > RS-For analysis

RS

Code	Size	Packaging	Notes
PS0869/41	10l	Plastic tank	

For dissolution testing

## Sorbitol

CH<sub>2</sub>OH(CHOH)<sub>4</sub>CH<sub>2</sub>OH  
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	Assay (HPLC)	97.0 - 102.0 % anidro	TAMC	<= 1000 CFU/g
Identification	Positive	Appearance of solution	Conform Ph.Eur.	TYMC	<= 100 CFU/g
Water (K.F.)	<= 1.5 %	Specific optical rotation (anhydrous)	+4.0 - +7.0 °	Escherichia coli	Absent Ph. Eur.
Ni	<= 1 ppm	Similar substances (HPLC)	Conform Ph.Eur.	Salmonella	Absent Ph. Eur.
Pb	<= 0.5 ppm	Conductivity	<= 20 µS.cm <sup>-1</sup>		
Reducing sugar	Conform Ph.Eur.	Microbial tests			

Code	Size	Packaging	Notes
379014	50kg	Fibre drum	

## Sorbitol (no crystallizable) solution 70%

C<sub>6</sub>H<sub>14</sub>O<sub>6</sub>  
Molecular Weight 182,17  
CAS : 50-70-4  
EEC-N : 200-061-5

### Sorbitol (no crystallizable) solution 70% > ERBAPharm-According to pharmacopoeia: Ph.Eur.-FU-BP

ERBAPharm

Description	Clear colourless liquid	Conductivity	<= 10 µS.cm <sup>-1</sup>	Reducing sugars after hydrolysis	<= 9.3 %
Identification	Positive	Ni	<= 1 ppm	Assay (HPLC)	>= 98 %
Appearance of solution	Conform Ph.Eur.	Pb	<= 0.5 ppm	Dry matter	68.0 - 72.0 %
Water (K.F.)	28.0 - 32.0 %	Reducing sugar	<= 0.2 %	D- Sorbitolo	72.0 - 92.0 %

Code	Size	Packaging	Notes
379021	1l	Plastic bottle	
379022	5l	Plastic bottle	

## D-Sorbitol

CH<sub>2</sub>OH(CHOH)<sub>4</sub>CH<sub>2</sub>OH  
Molecular Weight 182,17  
CAS : 50-70-4  
EEC-N : 200-061-5

### D-Sorbitol > RPE-For analysis

RPE

Description	White crystalline powder	Heavy metals (Pb)	<=10 ppm	Total sugars(Glucose)	<=0.3 %	Assay (oxidimetric)	>=98 %
Identification	Positive	Residue on ignition	<=0.1 %	As	<=2 ppm		
Loss on drying	<=1 %	Sulphate	<=100 ppm	Ca	<=50 ppm		
Chloride	<=50 ppm	Red.ing sugars(Glucose)	<=0.1 %	Fe	<=10 ppm		

Code	Size	Packaging	Notes
484705	250g	Plastic bottle	
484701	1kg	Plastic bottle	



## SPECTROSOL, Solvents for optical spectroscopy

Acetone.....	9	n,n-Dimethylformamide.....	171	Isooctane.....	278
Acetonitrile.....	12	Dimethylsulphoxide.....	174	Methanol.....	320
tert-Butylmethylether.....	94	Ethanol 96°.....	188	n-Pentane.....	374
Chloroform.....	121	Ethanol absolute anhydrous.....	185	n-Pentane 99%.....	373
Cyclohexane.....	147	Ethyl acetate.....	193	Propan-2-ol.....	429
1,2-Dichloroethane.....	157	n-Heptane 99%.....	227	Tetrahydrofuran.....	542
Dichloromethane.....	158	n-Hexane.....	232	Toluene.....	556
Diethyl ether.....	165	n-Hexane 99%.....	231	Trifluoroacetic acid.....	563

## Standard Mixture for hydrocarbon analysis

## Standard Mixture for hydrocarbon analysis &gt;

RS-For environmental analysis according to NF EN ISO 9377-2

RS

Code	Size	Packaging	Notes
506002	1ml	Glass ampoule	Standard quality control of two mineral oils in acetone
506010	1ml	Glass ampoule	Mixture of mineral oil without additive 2 to 5 mg / ml each in hexane
506040	5ml	Glass ampoule	N-tetracontane mixture (20 mg / l) and n-decane (20 mg / l) in hexane
506011	10ml	Glass ampoule	Mixture of mineral oil without additive 2 to 1 mg / ml each in hexane
506020	10ml	Glass ampoule	Standard mixture of n-alkanes (C10 to C40 in pairs) of 50 mcg / ml each in hexane
506030	10ml	Glass ampoule	Mother solution stearyl stearate 2 g / l in hexane

## Standard solution 1.30 µS/cm

## Classification transport

ONU: 1274

Transport Hazard class: 3

Packing group III



Danger

3.3/1; H318-2.6/3; H226-3.8/3; H336

P210-P241-P304+P340-P305+P351+P338-P403+P235-P405-P501a

## Standard solution 1.30 µS/cm &gt; 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	250ml	Glass bottle	

## Standard solution 5 µS/cm

## Classification transport

ONU: 1274

Transport Hazard class: 3

Packing group III



Danger

3.3/1; H318-2.6/3; H226-3.8/3; H336

P210-P241-P304+P340-P305+P351+P338-P403+P235-P405-P501a

## Standard solution 5 µS/cm &gt; 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	250ml	Glass bottle	

## Standard solution 10 µS/cm

## Classification transport

ONU: 1274

Transport Hazard class: 3

Packing group III



Danger

3.3/1; H318-2.6/3; H226-3.8/3; H336

P210-P241-P304+P340-P305+P351+P338-P403+P235-P405-P501a

## Standard solution 10 µS/cm &gt; 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	250ml	Glass bottle	

# STA

## Standard solution 20 µS/cm

### Classification transport

ONU: 1274  
Transport Hazard class: 3  
Packing group III



### Danger

3.3/1; H318-2.6/3; H226-3.8/3; H336  
P210-P241-P304+P340-P305+P351+P338-P403+P235-P405-P501a

### 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	500ml	Plastic bottle	

## Standard solution 50 µS/cm

### Classification transport

ONU: 1274  
Transport Hazard class: 3  
Packing group III



### Danger

3.3/1; H318-2.6/3; H226-3.8/3; H336  
P210-P241-P304+P340-P305+P351+P338-P403+P235-P405-P501a

### 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	500ml	Plastic bottle	

## Standard solution 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	500ml	Plastic bottle	

## Standard solution 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	500ml	Plastic bottle	

## Standard solution 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	500ml	Plastic bottle	

Standard solution 200  $\mu\text{S}/\text{cm}$ ▶ Standard solution 200  $\mu\text{S}/\text{cm}$  > RS-For conductivity

RS

Description .....Clear colourless liquid Identification.....Positive Conductivity at 25°C .....198.0 - 202.0  $\mu\text{S}/\text{cm}$ 

Code	Size	Packaging	Notes
575071	500ml	Plastic bottle	

Standard solution 500  $\mu\text{S}/\text{cm}$ ▶ Standard solution 500  $\mu\text{S}/\text{cm}$  > RS-For conductivity

RS

Description .....Clear colourless liquid Identification.....Positive Conductivity at 25°C .....495.0 - 505.0  $\mu\text{S}/\text{cm}$ 

Code	Size	Packaging	Notes
575081	500ml	Plastic bottle	

Standard solution 1000  $\mu\text{S}/\text{cm}$ ▶ Standard solution 1000  $\mu\text{S}/\text{cm}$  > RS-For conductivity

RS

Description .....Clear colourless liquid Identification.....Positive Conductivity at 25°C .....990.0 - 1010.0  $\mu\text{S}/\text{cm}$ 

Code	Size	Packaging	Notes
575091	500ml	Plastic bottle	

Standard solution 1413  $\mu\text{S}/\text{cm}$ ▶ Standard solution 1413  $\mu\text{S}/\text{cm}$  > RS-For conductivity

RS

Description .....Clear colourless liquid Identification.....Positive Conductivity at 25°C .....1399 - 1427  $\mu\text{S}/\text{cm}$ 

Code	Size	Packaging	Notes
575101	500ml	Plastic bottle	

Standard solution 5000  $\mu\text{S}/\text{cm}$ ▶ Standard solution 5000  $\mu\text{S}/\text{cm}$  > RS-For conductivity

RS

Description .....Clear colourless liquid Identification.....Positive Conductivity at 25°C .....4950 - 5050  $\mu\text{S}/\text{cm}$ 

Code	Size	Packaging	Notes
575111	500ml	Plastic bottle	

Standard solution 10000  $\mu\text{S}/\text{cm}$ ▶ Standard solution 10000  $\mu\text{S}/\text{cm}$  > RS-For conductivity

RS

Description .....Clear colourless liquid Identification.....Positive Conductivity at 25°C .....9900 - 10100  $\mu\text{S}/\text{cm}$ 

Code	Size	Packaging	Notes
575121	500ml	Plastic bottle	

## Standard solution 12880 $\mu\text{S}/\text{cm}$

### Standard solution 12880 $\mu\text{S}/\text{cm}$ > RS-For conductivity

RS

Description .....Clear colourless liquid Identification.....Positive Conductivity at 25°C .....12751 - 13009  $\mu\text{S}/\text{cm}$

Code	Size	Packaging	Notes
575131	500ml	Plastic bottle	

## Standard solution 20000 $\mu\text{S}/\text{cm}$

### Standard solution 20000 $\mu\text{S}/\text{cm}$ > RS-For conductivity

RS

Description .....Clear colourless liquid Identification.....Positive Conductivity at 25°C .....19800 - 20200  $\mu\text{S}/\text{cm}$

Code	Size	Packaging	Notes
575141	500ml	Plastic bottle	

## Standard solution 50000 $\mu\text{S}/\text{cm}$

### Standard solution 50000 $\mu\text{S}/\text{cm}$ > RS-For conductivity

RS

Description .....Clear colourless liquid Identification.....Positive Conductivity at 25°C .....49500 - 50500  $\mu\text{S}/\text{cm}$

Code	Size	Packaging	Notes
575151	500ml	Plastic bottle	

## Standard solution 100000 $\mu\text{S}/\text{cm}$

### Standard solution 100000 $\mu\text{S}/\text{cm}$ > RS-For conductivity

RS

Description .....Clear colourless liquid Identification.....Positive Conductivity at 25°C .....99000 - 101000  $\mu\text{S}/\text{cm}$

Code	Size	Packaging	Notes
575161	500ml	Plastic bottle	

## Standard solution 150000 $\mu\text{S}/\text{cm}$

### Standard solution 150000 $\mu\text{S}/\text{cm}$ > RS-For conductivity

RS

Description .....Clear colourless liquid Identification.....Positive Conductivity at 25°C .....148500 - 151500  $\mu\text{S}/\text{cm}$

Code	Size	Packaging	Notes
575171	500ml	Plastic bottle	

## Standard solution 200000 $\mu\text{S}/\text{cm}$

### Standard solution 200000 $\mu\text{S}/\text{cm}$ > RS-For conductivity

RS

Description .....Clear colourless liquid Identification.....Positive Conductivity at 25°C .....198000 - 202000  $\mu\text{S}/\text{cm}$

Code	Size	Packaging	Notes
575181	500ml	Plastic bottle	

Standard solution 300000 µS/cm

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	500ml	Plastic bottle	

Standard solution 350000 µS/cm

Standard solution 350000 µS/cm > RS-For conductivity

RS

Code	Size	Packaging	Notes
575201	500ml	Plastic bottle	

Standard solution 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	500ml	Plastic bottle	

Standard solution 500000 µS/cm

Classification transport

ONU: 2796  
 Transport Hazard class: 8  
 Packing group II



Danger

3.2/1A; H314  
 P260-P280-P304+P340-P305+P351+P338-P405-P501a

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	500ml	Plastic bottle	

Standard solutions for AAS

Aluminum standard solution .....21	Gold standard solution .....222	Selenium standard solution .....448
Antimony standard solution .....52	Iron standard solution .....268	Silicon standard solution .....453
Barium standard solution .....59	Lead standard solution .....288	Silver standard solution .....454
Bismuth standard solution .....71	Lithium standard solution .....294	Sodium standard solution .....462
Boron standard solution .....75	Magnesium standard solution .....299	Strontium standard solution .....519
Cadmium standard solution .....96	Manganese standard solution .....309	Tin standard solution .....550
Calcium standard solution .....98	Mercury standard solution .....314	Vanadium standard solution .....572
Chromium standard solution .....128	Molybdenum standard solution .....339	Zinc standard solution .....581
Cobalt standard solution .....133	Nickel standard solution .....347	
Copper standard solution .....136	Potassium standard solution .....396	

Standard solutions for ICP and ICP-MS, multielement

Multielement standard for ICP .....341 Multielement standard for ICP and ICP-MS .....342

Product specifications are subject to changes.  
 Please visit our website for updates.



## Standard solutions for ICP, monoelement

Aluminum standard solution	21	Iridium standard solution	263	Samarium standard solution	446
Antimony standard solution	52	Iron standard solution	268	Scandium standard solution	447
Arsenic standard solution	55	Lanthanum standard solution	286	Selenium standard solution	448
Barium standard solution	59	Lead standard solution	288	Silicon standard solution	453
Beryllium standard solution	69	Lithium standard solution	294	Silver standard solution	454
Bismuth standard solution	71	Lutetium standard solution	298	Sodium standard solution	462
Boron standard solution	75	Magnesium standard solution	299	Strontium standard solution	519
Cadmium standard solution	96	Manganese standard solution	309	Sulfur standard solution	525
Calcium standard solution	98	Mercury standard solution	314	Tantalum standard solution	537
Cerium standard solution	113	Molybdenum standard solution	339	Tellurium standard solution	539
Cesium standard solution	115	Multielement standard for ICP	341	Terbium standard solution	540
Chromium standard solution	128	Neodymium	345	Thallium standard solution	545
Cobalt standard solution	133	Nickel standard solution	347	Thorium standard solution	547
Copper standard solution	136	Niobium standard solution	352	Tin standard solution	550
Dysprosium standard solution	181	Palladium standard solution	368	Titanium standard solution	553
Erbium standard solution	184	Phosphorus standard solution	392	Tungsten standard solution	570
Europium standard solution	203	Platinum standard solution	394	Uranium standard solution	571
Gadolinium standard solution	215	Potassium standard solution	396	Vanadium standard solution	572
Germanium standard solution	217	Praseodymium standard solution	427	Ytterbium standard solution	580
Gold standard solution	222	Rhodium standard solution	442	Yttrium standard solution	580
Hafnium standard solution	226	Rubidium standard solution	444	Zinc standard solution	581
Holmium standard solution	236	Ruthenium standard solution	444	Zirconium standard solution	588

## Standard solutions for ICP-MS, monoelement

Aluminum standard solution	21	Iridium standard solution	268	Scandium standard solution	447
Antimony standard solution	52	Iron standard solution	268	Selenium standard solution	448
Arsenic standard solution	55	Lanthanum standard solution	286	Silicon standard solution	453
Barium standard solution	59	Lead standard solution	288	Silver standard solution	454
Beryllium standard solution	69	Lithium standard solution	294	Sodium standard solution	462
Bismuth standard solution	71	Lutetium standard solution	298	Strontium standard solution	519
Boron standard solution	75	Magnesium standard solution	299	Sulfur standard solution	525
Cadmium standard solution	96	Manganese standard solution	309	Tantalum standard solution	537
Calcium standard solution	98	Mercury standard solution	314	Tellurium standard solution	539
Cerium standard solution	113	Molybdenum standard solution	339	Terbium standard solution	540
Cesium standard solution	115	Neodymium	345	Thallium standard solution	545
Chromium standard solution	128	Nickel standard solution	347	Thorium standard solution	547
Cobalt standard solution	133	Niobium standard solution	352	Thulium standard solution	548
Copper standard solution	136	Osmium standard solution	366	Tin standard solution	550
Dysprosium standard solution	181	Palladium standard solution	368	Titanium standard solution	553
Erbium standard solution	184	Phosphorus standard solution	392	Tungsten standard solution	570
Europium standard solution	203	Platinum standard solution	394	Uranium standard solution	571
Gadolinium standard solution	215	Potassium standard solution	396	Vanadium standard solution	572
Gallium standard solution	216	Praseodymium standard solution	427	Ytterbium standard solution	580
Germanium standard solution	217	Rhenium standard solution	442	Yttrium standard solution	580
Gold standard solution	222	Rhodium standard solution	442	Zinc standard solution	581
Hafnium standard solution	226	Rubidium standard solution	444	Zirconium standard solution	588
Holmium standard solution	236	Ruthenium standard solution	444		
Indium standard solution	263	Samarium standard solution	446		

## Standard solutions for degree of coloration of liquids

### 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	125ml	Bottle	Standard solution B (brown)
612202520	125ml	Bottle	Standard solution BY (brownish-yellow)
612202530	125ml	Bottle	Standard solution Y (yellow)
612202540	125ml	Bottle	Standard solution GY (greenish-yellow)
612202550	125ml	Bottle	Standard solution R (red)

## Stannous chloride solution

### Stannous chloride solution > RS-For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611085001	100ml	Bottle	Ref Ph.Eur 1085001

## Starch paste solution 1%

CAS : 9005-84-9

### Starch paste solution 1% > RPE-For analysis

RPE

Description .....Colourless opaline liquid Identification.....Positive

Code	Size	Packaging	Notes
E477302	1l	Glass bottle	

**Stabilized.**

## Starch soluble

(C<sub>6</sub>H<sub>10</sub>O<sub>5</sub>)<sub>n</sub>  
 CAS : 9005-84-9  
 EEC-N : 232-686-4

## ▶ Starch soluble &gt; 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	250g	Plastic bottle	
417587	1kg	Plastic bottle	

## Starch solution

(C<sub>6</sub>H<sub>10</sub>O<sub>5</sub>)<sub>n</sub>  
 CAS : 9005-84-9

## ▶ Starch solution &gt; RS-For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611085103	100ml	Bottle	Ref Ph.Eur 1085103

## Start-up Kit Aluminium

## Classification transport

ONU: 2796  
 Transport Hazard class: 8  
 Packing group II



## Danger

3.3/1; H318-3.2/2; H315  
 P280-P264-P305+P351+P338-P332+P313-P362-P302+P352

## ▶ Start-up Kit Aluminium &gt; RS-Standard for Idrimeter

RS

Description .....Clear colourless liquid Identification.....Positive Assay.....0.998 - 1.002 g/L

Code	Size	Packaging	Notes
416705	100ml	Glass bottle	

## Start-up Kit Ammonia

H<sub>4</sub>CIN  
 Molecular Weight 53,49  
 CAS : 12125-02-9  
 EEC-N : 235-186-4



## Warning

3.1.0/4; H302-3.3/2; H319  
 P280-P305+P351+P338-P330-P337+P313-P301+P312-P501a

## ▶ Start-up Kit Ammonia &gt; RS-Standard for Idrimeter

RS

Code	Size	Packaging	Notes
419405	25g	Glass bottle	

## Start-up Kit Anionic surfactants

C<sub>18</sub>H<sub>30</sub>O<sub>3</sub>S.Na  
 CAS : 25155-30-0  
 EEC-N : 246-680-4



## Warning

3.1.0/4; H302  
 P264-P270-P330-P301+P312-P501a

## ▶ Start-up Kit Anionic surfactants &gt; RS-Standard for Idrimeter

RS

Description .....Clear colourless liquid Identification.....Positive pH at 20° C.....3.98 - 4.02

Code	Size	Packaging	Notes
486965	10g	Glass bottle	

## Start-up Kit Cadmium



**Warning**  
3.1.1/4; H332-4.1.C/3; H412  
P261-P271-P273-P304+P340-P312-P501a

### Start-up Kit Cadmium > RS-Standard for Idrimeter

RS

Description.....Clear colourless liquid Identification.....Positive Assay.....0.998 - 1.002 g/L

Code	Size	Packaging	Notes
432305	100ml	Glass bottle	

## Start-up Kit Calcium

### Start-up Kit Calcium > RS-Standard for Idrimeter

RS

Description.....Clear, colorless liquid Identification.....Positive Assay.....0.998 - 1.002 g/L

Code	Size	Packaging	Notes
432905	100ml	Glass bottle	

## Start-up Kit Cationic surfactants

C<sub>19</sub>H<sub>42</sub>BrN  
Molecular Weight 364,46  
CAS : 57-09-0  
EEC-N : 200-311-3

**Classification transport**  
ONU: 3077  
Transport Hazard class: 9  
Packing group III



**Warning**  
4.1.A/1; H400-3.1.O/4; H302-3.2/2; H315-3.3/2; H319  
P280-P305+P351+P338-P330-P332+P313-P337+P313-P501a

### Start-up Kit Cationic surfactants > RS-Standard for Idrimeter

RS

Description.....Clear colourless liquid Identification.....Positive pH at 20° C.....9.95-10.05

Code	Size	Packaging	Notes
486985	25g	Glass bottle	

## Start-up Kit Chlorides

### Start-up Kit Chlorides > RS-Standard for Idrimeter

RS

Description.....Clear colourless liquid Identification.....Positive Assay.....0.998 - 1.002 g/L

Code	Size	Packaging	Notes
439085	100ml	Glass bottle	

## Start-up Kit Chromates

Na<sub>2</sub>CrO<sub>4</sub> · 4H<sub>2</sub>O  
CAS : 10034-82-9  
EEC-N : 231-889-5

**Classification transport**  
ONU: 3077  
Transport Hazard class: 9  
Packing group III



**Danger**  
3.6/1B; H350-4.1.A/1; H400-4.1.C/1; H410-3.4.S/1; H317-A26  
P261-P280-P308+P313-P363-P405-P501a

### Start-up Kit Chromates > RS-Standard for Idrimeter

RS

Code	Size	Packaging	Notes
440605	25g	Glass bottle	



## Start-up Kit Copper

## Start-up Kit Copper &gt; RS-Standard for Idrimeter

RS

Description .....Clear blue liquid Identification.....Positive Assay.....0.998 - 1.002 g/L

Code	Size	Packaging	Notes
475205	100ml	Glass bottle	

## Start-up Kit Iron

## Start-up Kit Iron &gt; RS-Standard for Idrimeter

RS

Code	Size	Packaging	Notes
451305	100ml	Glass bottle	

## Start-up Kit Manganese

## Start-up Kit Manganese &gt; RS-Standard for Idrimeter

RS

Description .....Clear colourless liquid Identification.....Positive Assay.....0.998 - 1.002 g/L

Code	Size	Packaging	Notes
459955	100ml	Glass bottle	

## Start-up Kit Nickel

## Start-up Kit Nickel &gt; RS-Standard for Idrimeter

RS

Code	Size	Packaging	Notes
464455	100ml	Glass bottle	

## Start-up Kit Nitrates

## Start-up Kit Nitrates &gt; ERBAPharm-Standard for Idrimeter

ERBAPharm

Description .....Clear colourless liquid Identification.....Positive Assay.....0.998 - 1.002 g/L

Code	Size	Packaging	Notes
464955	100ml	Plastic bottle	

## Start-up Kit Nitrites

## Start-up Kit Nitrites &gt; RS-Standard for Idrimeter

RS

Description .....Clear colourless liquid Identification.....Positive Assay.....0.998 - 1.002 g/L

Code	Size	Packaging	Notes
464975	100ml	Glass bottle	

Product specifications are subject to changes.  
Please visit our website for updates.

## Start-up Kit Nitrogen

H<sub>8</sub>N<sub>2</sub>O<sub>4</sub>S  
Molecular Weight 132,14  
CAS : 7783-20-2  
EEC-N : 231-984-1



### Warning

3.2/2; H315-3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

### Start-up Kit Nitrogen > RS-Standard for Idrimeter

RS

Code	Size	Packaging	Notes
424605	25g	Glass bottle	

## Start-up Kit Phosphates

### Start-up Kit Phosphates > RS-Standard for Idrimeter

RS

Description .....Clear colourless liquid Identification.....Positive Assay.....0.998 - 1.002 g/L

Code	Size	Packaging	Notes
452385	100ml	Glass bottle	

## Start-up Kit Sulfates

### Start-up Kit Sulfates > RS-Standard for Idrimeter

RS

Description .....Clear colourless liquid Identification.....Positive Assay.....0.998 - 1.002 g/L

Code	Size	Packaging	Notes
484605	100ml	Glass bottle	

## Start-up Kit Zinc

4.1.C/3; H412  
P273-P501a

### Start-up Kit Zinc > RS-Standard for Idrimeter

RS

Code	Size	Packaging	Notes
493405	100ml	Glass bottle	

## Stearic acid

Synonyms : 1-Heptadecanecarboxylic acid  
Octadecanoic acid

CH<sub>3</sub>(CH<sub>2</sub>)<sub>16</sub>COOH  
Molecular Weight 284,47  
CAS : 57-11-4  
EEC-N : 200-313-4

### Classification transport

ONU: 1325  
Transport Hazard class: 4.1  
Packaging group III



### Warning

2.7/2; H228-3.2/2; H315-3.3/2; H319-3.8/3; H335  
P210-P241-P304+P340-P305+P351+P338-P405-P501a

### Stearic acid > ERBAPharm-Vegetal origin

ERBAPharm

Description .....White flakes Iodine value .....<= 4.0 Assay (Stearic Acid+Palmitic Acid).....>=90.0 %  
Identification.....Positive Sulphated ash.....<=0,1 % Soluble mineral acids.....Conform USP-NF  
Appearance.....Conform Ph.Eur. Heavy metals (Pb) .....<=10 ppm Neutral fats-paraffins.....Conform USP-NF  
Acidity.....Conform Ph.Eur. Ni .....<=1 ppm Melting point .....53 - 59 ° C  
Acidity index.....194 - 212 Assay (Stearic Acid) .....40.0 - 60.0 %

Code	Size	Packaging	Notes
307112	2,5kg	Plastic bottle	
307115	25kg	Fibre drum	

## Strontium standard solution

## ▶ Strontium standard solution &gt; RS-Standard for ICP-MS

RS

Code	Size	Packaging	Notes
505866	50ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505867	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505868	100ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid

## ▶ Strontium standard solution &gt; RS-Standard for ICP

RS

Code	Size	Packaging	Notes
503951	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503955	100ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
503953	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503957	500ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

## ▶ Strontium standard solution &gt; RS-Standard for AAS

RS

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

Code	Size	Packaging	Notes
E497665	100ml	Glass bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
E497661	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid

## ▶ Strontium standard solution &gt; RS-NORMEX- Concentrated solution for AAS

RS

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

Code	Size	Packaging	Notes
485391	Normex	Plastic ampoule	conc. 1.000 ppm Matrix : Nitric acid

## Strontium acetate

Sr(CH<sub>3</sub>COO)<sub>2</sub>  
 Molecular Weight 205,71  
 CAS : 543-94-2  
 EEC-N : 208-854-8

## ▶ Strontium acetate &gt; RPE-For analysis

RPE

Description .....White cryst. powder Heavy metals (Pb) .....<=5 ppm Ca .....<=0.1 % Ni .....<=2.5 ppm  
 Identification.....Positive Nitrate .....<=30 ppm Cu .....<=2.5 ppm Pb .....<=2.5 ppm  
 pH sol. 5% at 25° C .....6.5 - 8.5 Substanc. not ppt H<sub>2</sub>SO<sub>4</sub> .....<=0.15 % Fe .....<=2.5 ppm Zn .....<=2.5 ppm  
 Chloride .....<=50 ppm Sulphate.....<=30 ppm K .....<=500 ppm Assay (complexometric) .....>=99 %  
 Insol.in dil.acetic ac. ....<=50 ppm Ba .....<=50 ppm Na .....<=0.15 %

Code	Size	Packaging	Notes
485304	100g	Glass bottle	

## Strontium bromide monohydrate

SrBr<sub>2</sub>.H<sub>2</sub>O  
 Molecular Weight 265,43  
 CAS : 14519-13-2  
 EEC-N : 233-969-5



Warning

3.2/2; H315-3.3/2; H319-3.8/3; H335  
 P261-P271-P304+P340-P305+P351+P338-P405-P501a

## ▶ Strontium bromide monohydrate &gt; RPE-For analysis

RPE

Description .....White granular powder Water-insoluble matter .....<=100 ppm Sulphide.....<=10 ppm Ni .....<=25 ppm  
 Identification.....Positive Iodide .....<=50 ppm Ba .....<=50 ppm Pb .....<=25 ppm  
 pH sol. 5% at 25° C .....4.8 - 8.0 Heavy metals (Pb) .....<=5 ppm Ca .....<=0.1 % Zn .....<=25 ppm  
 Bromate .....<=10 ppm Substanc. not ppt H<sub>2</sub>SO<sub>4</sub> .....<=0.2 % Cu .....<=25 ppm Assay (complexometric) .....99 - 100 %  
 Chloride .....<=0.2 % Sulphate.....<=50 ppm Fe .....<=5 ppm

Code	Size	Packaging	Notes
485354	100g	Glass bottle	

# STR

## Strontium carbonate

SrCO<sub>3</sub>  
 Molecular Weight 147,63  
 CAS : 1633-05-2  
 EEC-N : 216-643-7

### Strontium carbonate > RPE-For analysis

**RPE**

Description.....White powder  
 Identification.....Positive  
 Alkalinity(SrOH).....<=300 ppm  
 Chloride.....<=10 ppm  
 Phosphate.....<=10 ppm  
 HCl-insoluble matter.....<=100 ppm  
 Heavy metals (Pb).....<=60 ppm  
 Substanc. not ppt H<sub>2</sub>SO<sub>4</sub>.....<=0.3 %  
 Sulphate.....<=50 ppm  
 Ba.....<=200 ppm  
 Ca.....<=0.2 %  
 Cu.....<=5 ppm  
 Fe.....<=10 ppm  
 Ni.....<=5 ppm  
 Pb.....<=5 ppm  
 Zn.....<=5 ppm  
 Assay (complexometric).....99 - 100 %

Code	Size	Packaging	Notes
485404	100g	Glass bottle	
485407	1kg	Plastic bottle	

## Strontium chloride hexahydrate

SrCl<sub>2</sub>.6H<sub>2</sub>O  
 Molecular Weight 266,62  
 CAS : 10025-70-4  
 EEC-N : 233-971-6

**Danger**

3.3/1; H318  
 P280-P305+P351+P338-P310

### Strontium chloride hexahydrate > 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  
 Heavy metals (Pb).....<=5 ppm  
 Sulphate.....<=10 ppm  
 Ba.....<=500 ppm  
 Ca.....<=500 ppm  
 Fe.....<=5 ppm  
 Mg.....<=2 ppm  
 Assay (complexometric).....99.0 - 103.0 %

Code	Size	Packaging	Notes
485455	250g	Plastic bottle	
485457	1kg	Plastic bottle	

## Strontium nitrate

Sr(NO<sub>3</sub>)<sub>2</sub>  
 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**

2.14/2; H272-3.1.O/4; H302  
 P210-P221-P280-P220-P330-P501a

### Strontium nitrate > RPE-For analysis-ACS

**RPE**

Description.....White crystalline powder  
 Identification.....Positive  
 pH sol. 5% at 25° C.....5.0 - 7.0  
 Loss on drying.....<=0.1 %  
 Chloride.....<=20 ppm  
 Water-insoluble matter.....<=100 ppm  
 Mg and Alkali salts.....<=0.15 %  
 Heavy metals (Pb).....<=5 ppm  
 Sulphate.....<=50 ppm  
 Ba.....<=500 ppm  
 Ca.....<=500 ppm  
 Fe.....<=5 ppm  
 Assay (complexometric).....>=99.0 %

Code	Size	Packaging	Notes
485605	250g	Plastic bottle	
485607	1kg	Plastic bottle	

### Strontium nitrate > RE-Pure

**RE**

Description.....White cryst. powder  
 Identification.....Positive  
 Chloride.....<=500 ppm  
 Water-insoluble matter.....<=0.1 %  
 Heavy metals (Pb).....<=50 ppm  
 Sulphate.....<=500 ppm  
 Fe.....<=50 ppm  
 Assay (complexometric).....>=98 %

Code	Size	Packaging	Notes
379707	1kg	Plastic bottle	

## Strontium sulphate

SrSO<sub>4</sub>

Molecular Weight 183,68

CAS : 7759-02-6

EEC-N : 231-850-2

## Strontium sulphate &gt; 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	250g	Plastic bottle	

## Succinic acid

Synonym : Butanedioic acid

HOOC(CH<sub>2</sub>)<sub>2</sub>COOH

Molecular Weight 118,09

CAS : 110-15-6

EEC-N : 203-740-4



Warning

3.3/2; H319

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

## Succinic acid &gt; RPE-For analysis

RPE

Description.....	White crystals	Melting point .....	185 - 190 °C	Fumaric acid and maleic .....	<= 1 %
Identification.....	Positive	Water (KF) .....	<= 1 %	Assay (acidimetric) .....	>=98.5 %

Code	Size	Packaging	Notes
411025	250g	Plastic bottle	
411027	1kg	Plastic bottle	
411023	25kg	Bag	

## Succinic anhydride

Synonym : Dihydro-2,5-furandione

(CH<sub>2</sub>CO)<sub>2</sub>O

Molecular Weight 100,07

CAS : 108-30-5

EEC-N : 203-570-0



Warning

3.1.0/4; H302-3.3/2; H319-3.8/3; H335

P261-P271-P304+P340-P305+P351+P338-P405-P501a

## Succinic anhydride &gt; RPE-For analysis

RPE

Description.....	White crystals	Chloride .....	<=10 ppm	Fe.....	<=5 ppm
Identification.....	Positive	Heavy metals (Pb) .....	<=5 ppm	Assay (as anhydride) .....	>=99 %
Melting point .....	117.6 - 121.6 °C	Residue on ignition .....	<=100 ppm		
Ammonium .....	<=20 ppm	Total sulphur .....	<=20 ppm		

Code	Size	Packaging	Notes
422204	100g	Glass bottle	

## Succinic anhydride &gt; RE-Pure

RE

Description .....	White flakes	Chloride .....	<=150 ppm	Assay (as anhydride) .....	>=99 %
Identification.....	Positive	Heavy metals (Pb) .....	<=10 ppm		
Melting point .....	118.2 - 119.0 °C	Sulphate .....	<=400 ppm		

Code	Size	Packaging	Notes
318507	1kg	Plastic bottle	

Product specifications are subject to changes.  
Please visit our website for updates.

# SUC

## D(+)-Sucrose

C<sub>12</sub>H<sub>22</sub>O<sub>11</sub>  
Molecular Weight 342,30  
CAS : 57-50-1  
EEC-N : 200-334-9

### D(+)-Sucrose > RPE-For analysis-ACS

RPE

Description.....White crystals  
Identification.....Positive  
Appearance of solution.....+66.3 - +66.8 °  
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 (SO<sub>4</sub>).....<=50 ppm  
Inver.sugar (Glucose).....<=500 ppm  
Fe.....<=5 ppm

Code	Size	Packaging	Notes
477187	1kg	Plastic bottle	
477182	5kg	Plastic bottle	
477183	25kg	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.  
Invert sugar.....Conform USP-NF  
Reducing sugar.....Conform Ph.Eur.  
Conductivity.....Conform Ph.Eur.  
Colour (A).....<= 45 Ph.Eur.  
Ca.....Conform USP-NF  
Organic volatile impurities.....Conform USP-NF  
Specific optical rotation.....+66.3 - +67.0 °  
Loss on drying.....<= 0.1 %  
Sulphated ash.....<= 500 ppm  
Chloride.....<= 35 ppm  
Heavy metals (Pb).....<= 5 ppm  
Sulphate.....<= 60 ppm  
Sulphite.....<= 10 ppm  
Pb.....<= 0.5 ppm

Code	Size	Packaging	Notes
365157	1kg	Plastic bottle	
365152	25kg	Plastic bucket	

## Sudan black B

Synonyms : Solvent Black 3  
Ceres black BN

C<sub>29</sub>H<sub>24</sub>N<sub>6</sub>  
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	25g	Glass bottle	

Dye for histology

## Sudan III

Synonyms : 1-[4-(Phenylazo)phenylazo]-2-naphthol  
Sudan Red BK

C<sub>22</sub>H<sub>16</sub>N<sub>4</sub>O  
Molecular Weight 352,40  
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	25g	Glass bottle	

Dye for histology

## Sudan III hydroalcoholic saturated solution

## Classification transport

ONU: 1170  
 Transport Hazard class: 3  
 Packing group II



## Danger

2.6/2; H225  
 P210-P241-P243-P303+P361+P353-P403+P235-P501a

## Sudan III hydroalcoholic saturated solution &gt; RS-For the coloring of neutral fats

RS

Description .....Red clear liquid Identification.....Positive Density at 20° C.....0.855 - 0.861

Code	Size	Packaging	Notes
E485952	250ml	Glass bottle	

## Sudan yellow

C<sub>16</sub>H<sub>12</sub>N<sub>2</sub>O  
 Molecular Weight 248,28  
 CAS : 842-07-9  
 EEC-N : 212-668-2



## Warning

3.5/2; H341-3.6/2; H351-3.4.S/1; H317-4.1.C/4; H413  
 P261-P280-P308+P313-P363-P405-P501a

## Sudan yellow &gt; RPE-For analysis-C.I. 12055

RPE

Description .....Red-orange crystalline powder Identification.....Positive

Code	Size	Packaging	Notes
453581	10g	Glass bottle	

## Sulfamic acid

Synonym : Amidosulfonic acid

NH<sub>2</sub>SO<sub>3</sub>H  
 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

3.2/2; H315-3.3/2; H319-4.1.C/3; H412  
 P280-P305+P351+P338-P332+P313-P337+P313-P362-P501a

## Sulfamic acid &gt; RPE-For analysis-ACS

RPE

Description.....White crystals Water-insoluble matter .....<= 100 ppm Sulphate .....<= 0.05 %  
 Identification.....Positive Heavy metals (Pb).....<= 10 ppm Fe.....<= 5 ppm  
 Chloride .....<= 10 ppm Residue on ignition .....<= 100 ppm Assay (acidimetric) .....99.3 - 100.3 %

Code	Size	Packaging	Notes
410105	250g	Plastic bottle	
410106	500g	Plastic bottle	
410104	25kg	Fibre drum	

## Sulfamic acid &gt; RE-Pure

RE

Description.....White crystals Heavy metals (Pb).....<=20 ppm Fe.....<=20 ppm  
 Identification.....Positive Sulphate .....<=0.3 % Assay .....>=99.5 %

Code	Size	Packaging	Notes
306507	1kg	Plastic bottle	
306503	25kg	Fibre drum	

## Sulfanilamide

Synonym : p-Aminobenzenesulfonamide

C<sub>6</sub>H<sub>8</sub>O<sub>2</sub>N<sub>2</sub>S  
 Molecular Weight 172,21  
 CAS : 63-74-1  
 EEC-N : 200-563-4

## Sulfanilamide &gt; RS-For microanalysis

RS

Description .....White crystalline powder Melting point .....164 - 167 ° C Assay.....>= 97.5 % (s.s.)  
 Identification.....Positive Loss on drying .....<= 0.5 %

Code	Size	Packaging	Notes
485961	2g	Glass bottle	

## Sulfanilic acid

4-NH<sub>2</sub>C<sub>6</sub>H<sub>4</sub>SO<sub>3</sub>H  
 Molecular Weight 173,19  
 CAS : 121-57-3  
 EEC-N : 204-482-5



### Warning

3.2/2; H315-3.3/2; H319-3.4.S/1; H317  
 P261-P280-P305+P351+P338-P332+P313-P337+P313-P501a

### Sulfanilic acid > RS-For analysis according to Ph. Eur. Chap. 4.2.1

RS

Code	Size	Packaging	Notes
61200700	50g	Bottle	Ref Ph.Eur 2000700

### Sulfanilic acid > RPE-For analysis-ACS-Reag. Ph.Eur.

RPE

Description.....White powder Residue on ignition.....<=100 ppm Sulphate.....<=100 ppm  
 Identification.....Positive Chloride.....<=20 ppm Assay (acidimetric).....98.0 - 102.0 %  
 Sodium carbonate 5% ins.....<=200 ppm Nitrite.....<=0.5 ppm

Code	Size	Packaging	Notes
410154	100g	Plastic bottle	
410156	500g	Plastic bottle	

## Sulfate standard solution

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

RS

Code	Size	Packaging	Notes
615002801	100ml	Bottle	A 10 ppm solution R1 : to dilute according to Ref Ph.Eur 5002801
615002802	100ml	Bottle	A 100 ppm solution : to dilute according to Ref Ph.Eur 5002802
615002809	100ml	Bottle	A 10 ppm solution : to dilute according to Ref Ph.Eur 5002800

### Sulfate standard solution > RS-Standard for ionic chromatography

RS

Code	Size	Packaging	Notes
503350	50ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503351	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503352	250ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503353	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Water

## Sulfite standard solution

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

RS

Code	Size	Packaging	Notes
615002900	100ml	Bottle	A 1,5 ppm solution Ref Ph.Eur 5002900

## Sulfochromic mixture

### Classification transport

ONU: 3265  
 Transport Hazard class: 8  
 Packing group II



### Danger

3.1.1/3; H331-3.4.R/1; H334-3.5/1B; H340-3.6/1B; H350-3.7/1B; H360FD-3.9/1; H372-3.2/1A; H314-3.4.S/1; H317-3.8/3; H335-H336-4.1.C/2; H411-A26  
 P260-P304+P340-P305+P351+P338-P342+P311-P405-P501a

### Sulfochromic mixture > RE-Pure

RE

Description.....Dark red liquid Identification.....Positive Density at 20° C.....1.843 - 1.853

Code	Size	Packaging	Notes
336711	1l	Glass bottle	
336712	2,5l	Glass bottle	



## Sulfolane

Synonyms : Tetramethylene sulfone  
Tetrahydrothiophene 1,1-dioxideCH<sub>2</sub>(CH<sub>2</sub>)<sub>3</sub>.SO<sub>2</sub>  
Molecular Weight 120,17  
CAS : 126-33-0  
EEC-N : 204-783-1

Warning

3.1.0/4; H302  
P264-P270-P330-P301+P312-P501a

## Sulfolane &gt; RS-Anhydrous-For analysis

RS

Water content (K.F).....<= 20 mg/Kg    Turbidity .....<= 3.5 NTU  
Assay (GC).....>= 98.5 %    Colourless to light yellow appearance.....Conform

Code	Size	Packaging	Notes
P932SP16	1l	Glass bottle	

## Sulfolane &gt; RPE-For analysis

RPE

Description.....Yellow crystalline mass    Refractive index at 20°C .....1.4820 - 1.4850    Residue on ignition .....<= 0.1 %  
Identification.....Positive    Assay (GLC).....>= 99.0 %    Water .....<= 0.3 %

Code	Size	Packaging	Notes
484611	250ml	Glass bottle	

## Sulfomolybdic reagent

## Classification transport

ONU: 1760  
Transport Hazard class: 8  
Packing group II

Danger

3.2/1A; H314  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

## Sulfomolybdic reagent &gt; RS-For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611086500	100ml	Bottle	Sulfomolybdic reagent R3 Ref Ph.Eur 1086500

## Sulfosalicylic acid

HO<sub>2</sub>C<sub>6</sub>H<sub>3</sub>(COOH)SO<sub>3</sub>H.2H<sub>2</sub>O  
Molecular Weight 254,20  
CAS : 5965-83-3  
EEC-N : 202-555-6

Warning

3.2/2; H315-3.3/2; H319  
P280-P264-P305+P351+P338-P332+P313-P337+P313-P362

## Sulfosalicylic acid &gt; RPE-For analysis-ACS

RPE

Description.....White solid    Water-insoluble matter.....<= 0.02 %    Fe.....<= 10 ppm  
Identification.....Positive    Heavy metals (Pb).....<= 20 ppm    Assay (acidimetric).....99.0 - 101.0 %  
Salicylic acid.....<= 0.04 %    Residue on ignition .....<= 0.1 %  
Chloride.....<= 10 ppm    Sulphate .....<= 0.02 %

Code	Size	Packaging	Notes
410894	100g	Glass bottle	
410896	500g	Plastic bottle	

## Sulfur standard solution

## Sulfur standard solution &gt; RS-Standard for ICP-MS

RS


Code	Size	Packaging	Notes
505821	50ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
505822	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
505825	100ml	Plastic bottle	conc. 100 ppm Matrix : Water

## Sulfur standard solution > RS-Standard for ICP

RS

Code	Size	Packaging	Notes
504291	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
504295	100ml	Plastic bottle	conc. 10.000 ppm Matrix : Water
504293	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
504297	500ml	Plastic bottle	conc. 10.000 ppm Matrix : Water

## Sulfur sublimed and washed

S Molecular Weight 32,06 CAS : 7704-34-9 EEC-N : 231-722-6	<b>Classification transport</b> ONU: 1350 Transport Hazard class: 4.1 Packing group III	 <b>Warning</b> 3.2/2; H315 P280-P264-P332+P313-P362-P302+P352-P321
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## Sulfur sublimed and washed > RE-Pure

RE

Description ..... Yellow powder      Residue on ignition ..... <= 0.1 %      Assay (gravimetric) ..... >= 99.5 %  
Identification ..... Positive      Acidity (H<sub>2</sub>SO<sub>4</sub>) ..... <= 0.1 %

Code	Size	Packaging	Notes
378807	1kg	Plastic bottle	
378809	5kg	Plastic bottle	
378802	25kg	Drum	
378804	50kg	Fibre drum	

## Sulfuric acid 98%

H <sub>2</sub> SO <sub>4</sub> Molecular Weight 98,07 CAS : 7664-93-9 EEC-N : 231-639-5	<b>Classification transport</b> ONU: 1830 Transport Hazard class: 8 Packing group II	 <b>Danger</b> 3.2/1A; H314 P260-P280-P304+P340-P305+P351+P338-P405-P501a
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## Sulfuric acid 98% > RS-For microanalysis

RS

Description ..... Clear liquid      Density at 20° C ..... ~ 1.835  
Identification ..... Positive      Assay ..... 95 - 98 %

Code	Size	Packaging	Notes
410421	1l	Glass bottle	

## Sulfuric acid 98% > RPE-For nitrogen dosing


RPE

Description ..... Clear colourless liquid      Total nitrogen (N) ..... <= 2 ppm  
Density at 20° C ..... ~ 1.84      Assay (acidimetric) ..... 95 - 98 %

Code	Size	Packaging	Notes
502641	2,5l	Glass bottle	

Content is guaranteed for standardized volumes at 20°C.

## Sulfuric acid 96% (66°Be)

H <sub>2</sub> SO <sub>4</sub> Molecular Weight 98,07 CAS : 7664-93-9 EEC-N : 231-639-5	<b>Classification transport</b> ONU: 1830 Transport Hazard class: 8 Packing group II	 <b>Danger</b> 3.2/1A; H314 P260-P280-P304+P340-P305+P351+P338-P405-P501a
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## Sulfuric acid 96% (66°Be) > RE-Pure

RE

Description ..... Clear or opaline colourless liquid      Chloride ..... <= 500 ppm      Pb ..... <= 0.03 ppm  
Identification ..... Positive      Cu ..... <= 0.02 ppm      Zn ..... <= 0.25 ppm  
Density at 20° C ..... 1.830 - 1.836      Assay (acidimetric) ..... >= 96 %

Code	Size	Packaging	Notes
306751	2,5l	Glass bottle	
306755	25kg	Plastic tank	
306752	50kg	Drum	

**Sulfuric acid 96%**

<p>H<sub>2</sub>SO<sub>4</sub> Molecular Weight 98,07 CAS : 7664-93-9 EEC-N : 231-639-5</p>	<p><b>Classification transport</b> ONU: 1830 Transport Hazard class: 8 Packing group II</p>	<p> <b>Danger</b> 3.2/1A; H314 P260-P280-P304+P340-P305+P351+P338-P405-P501a</p>
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**Sulfuric acid 96% > RS-VLSI For electronic use** RS

Code	Size	Packaging	Notes
527630	2,5l	Glass bottle	

**Sulfuric acid 96% > RS-RSE For electronic use** RS

<p>Description .....Clear liquid Colour .....&lt;=10 APHA Identification.....Positive Density at 20° C.....1.834 - 1.836 Assay (acidimetric) .....95.0 - 97.0 % Ammonium .....&lt;=0.5 ppm Chloride .....&lt;=0.1 ppm Heavy metals (Pb) .....&lt;=0.4 ppm Nitrate .....&lt;=0.1 ppm Phosphate .....&lt;=0.5 ppm Residue on ignition.....&lt;=3 ppm Subst. reducing KMnO4 .....&lt;=2 ppm</p>	<p>Ag .....&lt;=0.02 ppm Al .....&lt;=0.05 ppm As .....&lt;=0.005 ppm Au .....&lt;=0.05 ppm B .....&lt;=0.01 ppm Ba .....&lt;=0.05 ppm Be .....&lt;=0.02 ppm Bi .....&lt;=0.02 ppm Ca .....&lt;=0.2 ppm Cd .....&lt;=0.005 ppm Co .....&lt;=0.01 ppm Cr .....&lt;=0.01 ppm</p>	<p>Cu .....&lt;=0.01 ppm Fe .....&lt;=0.1 ppm Ga .....&lt;=0.02 ppm In .....&lt;=0.02 ppm K .....&lt;=0.1 ppm Li .....&lt;=0.02 ppm Mg .....&lt;=0.1 ppm Mn .....&lt;=0.01 ppm Mo .....&lt;=0.01 ppm Na .....&lt;=0.5 ppm Ni .....&lt;=0.01 ppm Pb .....&lt;=0.02 ppm</p>	<p>Pt .....&lt;=0.05 ppm Sb .....&lt;=0.01 ppm Se .....&lt;=0.5 ppm Sn .....&lt;=0.02 ppm Sr .....&lt;=0.02 ppm Ti .....&lt;=0.05 ppm Tl .....&lt;=0.05 ppm V .....&lt;=0.05 ppm Zn .....&lt;=0.02 ppm Zr .....&lt;=0.05 ppm</p>
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Code	Size	Packaging	Notes
410374	1l	Glass bottle	
410371	2,5l	Glass bottle	

**Sulfuric acid 96% > RS-MOS- For electronic use** RS

<p>Description .....Clear liquid Colour .....&lt;=10 APHA Identification.....Positive Density at 20° C.....1.834 - 1.836 Assay (acidimetric) .....95.0 - 97.0 % Ammonium .....&lt;=0.5 ppm Chloride .....&lt;=0.1 ppm Heavy metals (Pb) .....&lt;=0.4 ppm Nitrate .....&lt;=0.1 ppm Phosphate .....&lt;=0.5 ppm Residue on ignition.....&lt;=3 ppm Subst. reducing KMnO4 .....&lt;=2 ppm</p>	<p>Ag .....&lt;=0.02 ppm Al .....&lt;=0.05 ppm As .....&lt;=0.005 ppm Au .....&lt;=0.05 ppm B .....&lt;=0.01 ppm Ba .....&lt;=0.05 ppm Be .....&lt;=0.02 ppm Bi .....&lt;=0.02 ppm Ca .....&lt;=0.2 ppm Cd .....&lt;=0.005 ppm Co .....&lt;=0.01 ppm Cr .....&lt;=0.01 ppm</p>	<p>Cu .....&lt;=0.01 ppm Fe .....&lt;=0.1 ppm Ga .....&lt;=0.02 ppm In .....&lt;=0.02 ppm K .....&lt;=0.1 ppm Li .....&lt;=0.02 ppm Mg .....&lt;=0.1 ppm Mn .....&lt;=0.01 ppm Mo .....&lt;=0.01 ppm Na .....&lt;=0.5 ppm Ni .....&lt;=0.01 ppm Pb .....&lt;=0.02 ppm</p>	<p>Pt .....&lt;=0.05 ppm Sb .....&lt;=0.01 ppm Se .....&lt;=0.5 ppm Sn .....&lt;=0.02 ppm Sr .....&lt;=0.02 ppm Ti .....&lt;=0.05 ppm Tl .....&lt;=0.05 ppm V .....&lt;=0.05 ppm Zn .....&lt;=0.02 ppm Zr .....&lt;=0.05 ppm</p>
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Code	Size	Packaging	Notes
410381	2,5l	Glass bottle	

**Sulfuric acid 96% > RS-For environmental analysis -ACS-Reag. Ph.Eur.-Reag. USP** RS

<p>Description .....Clear oily liquid Colour .....&lt;=10 APHA Colour of 2N solution.....&lt;=10 APHA Identification.....Positive Density at 20° C.....1.834 - 1.836 Ammonium .....&lt;=1 ppm Chloride .....&lt;=0.1 ppm Phosphate .....&lt;=0.5 ppm Heavy metals (Pb) .....&lt;=0.8 ppm Nitrate .....&lt;=0.2 ppm Residue on ignition.....&lt;=4 ppm</p>	<p>Subst. reducing KMnO4 .....&lt;=2 ppm Ag .....&lt;=0.02 ppm Al .....&lt;=0.05 ppm As .....&lt;=0.005 ppm Ba .....&lt;=0.1 ppm Be .....&lt;=0.02 ppm Bi .....&lt;=0.02 ppm Ca .....&lt;=0.2 ppm Cd .....&lt;=0.005 ppm Co .....&lt;=0.01 ppm Cr .....&lt;=0.05 ppm</p>	<p>Cu .....&lt;=0.01 ppm Fe .....&lt;=0.1 ppm Hg .....&lt;=0.005 ppm K .....&lt;=0.1 ppm Li .....&lt;=0.02 ppm Mg .....&lt;=0.1 ppm Mn .....&lt;=0.01 ppm Mo .....&lt;=0.01 ppm Na .....&lt;=0.5 ppm Ni .....&lt;=0.02 ppm Pb .....&lt;=0.02 ppm</p>	<p>Se .....&lt;=3 ppm Sr .....&lt;=0.02 ppm Ti .....&lt;=0.05 ppm Tl .....&lt;=0.05 ppm V .....&lt;=0.05 ppm Zn .....&lt;=0.05 ppm Zr .....&lt;=0.05 ppm Assay (acidimetric) .....95.0 - 97.0 %</p>
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Code	Size	Packaging	Notes
410261	1l	Glass bottle	

Low content in Hg

Product specifications are subject to changes. Please visit our website for updates.

## 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 .....	<=10 APHA	Nitrate .....	<=0.2 ppm	Fe .....	<=0.1 ppm	Se .....	<=3 ppm
Colour of 2N solution .....	<=10 APHA	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	1l	Glass bottle	
410303	1l	Glass bottle PVC coated	
524540	1l	Plastic bottle	
410306	2,5l	Glass bottle	
524541	2,5l	Plastic bottle	
524543	25l	Tank	
410307	30kg	Drum	
410302	50kg	Drum	
410308	100kg	Drum	

## 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	1l	Glass bottle	
306657	2,5l	Glass bottle	
306653	50kg	Plastic tank	
306658	100kg	Polythene-metal drum	

## Sulfuric acid 93-98%

H<sub>2</sub>SO<sub>4</sub>  
Molecular Weight 98,07  
CAS : 7664-93-9  
EEC-N : 231-639-5

**Classification transport**  
ONU: 1830  
Transport Hazard class: 8  
Packing group II



3.2/1A; H314  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

## Sulfuric acid 93-98% > RS-Ultrapure - For trace analysis

RS

Description .....	Clear colourless liquid	Mg .....	<= 50 ppt	Dy .....	<= 10 ppt	Rb .....	<= 10 ppt
Identification .....	Positive	Mn .....	<= 10 ppt	Er .....	<= 10 ppt	Sm .....	<= 10 ppt
Ag .....	<= 50 ppt	Mo .....	<= 10 ppt	Eu .....	<= 10 ppt	Sc .....	<= 10 ppt
Al .....	<= 50 ppt	Na .....	<= 50 ppt	Gd .....	<= 10 ppt	Se .....	<= 500 ppt
As .....	<= 500 ppt	Ni .....	<= 50 ppt	Ga .....	<= 10 ppt	Te .....	<= 50 ppt
Ba .....	<= 10 ppt	Pb .....	<= 10 ppt	Ge .....	<= 100 ppt	Tb .....	<= 10 ppt
Be .....	<= 10 ppt	Sn .....	<= 50 ppt	Hf .....	<= 10 ppt	Tl .....	<= 10 ppt
Bi .....	<= 10 ppt	Sr .....	<= 10 ppt	Ho .....	<= 10 ppt	Tm .....	<= 10 ppt
Ca .....	<= 50 ppt	Ti .....	<= 50 ppt	In .....	<= 10 ppt	W .....	<= 10 ppt
Cd .....	<= 10 ppt	V .....	<= 10 ppt	La .....	<= 10 ppt	U .....	<= 10 ppt
Co .....	<= 10 ppt	Zn .....	<= 50 ppt	Li .....	<= 10 ppt	Yb .....	<= 10 ppt
Cr .....	<= 10 ppt	Assay (acidimetric) .....	93 - 98 %	Lu .....	<= 10 ppt	Y .....	<= 10 ppt
Cu .....	<= 10 ppt	Th .....	<= 10 ppt	Nd .....	<= 10 ppt	Zr .....	<= 10 ppt
Fe .....	<= 50 ppt	Sb .....	<= 50 ppt	Nb .....	<= 10 ppt		
Hg .....	<= 100 ppt	Ce .....	<= 10 ppt	Pr .....	<= 10 ppt		
K .....	<= 50 ppt	Cs .....	<= 10 ppt	Rh .....	<= 50 ppt		

Code	Size	Packaging	Notes
410351	500ml	Plastic bottle	

## Sulfuric acid 93-98% > RS-Superpure-For trace analysis

RS

Description .....	Clear liquid	Mn .....	<= 0.5 ppb	Cs .....	<= 0.1 ppb	Sm .....	<= 0.1 ppb
Identification .....	Positive	Mo .....	<= 0.5 ppb	Dy .....	<= 0.1 ppb	Sc .....	<= 0.1 ppb
Ag .....	<= 1 ppb	Na .....	<= 1 ppb	Er .....	<= 0.1 ppb	Te .....	<= 0.1 ppb
Al .....	<= 1 ppb	Ni .....	<= 0.5 ppb	Eu .....	<= 0.1 ppb	Tl .....	<= 0.1 ppb
As .....	<= 0.5 ppb	Pb .....	<= 0.1 ppb	Gd .....	<= 0.1 ppb	Tm .....	<= 0.1 ppb
Ba .....	<= 0.1 ppb	Sb .....	<= 1 ppb	Ga .....	<= 0.1 ppb	W .....	<= 0.5 ppb
Be .....	<= 0.1 ppb	Se .....	<= 10 ppb	Ge .....	<= 1 ppb	U .....	<= 0.2 ppb
Bi .....	<= 0.1 ppb	Sn .....	<= 1 ppb	Hf .....	<= 0.1 ppb	Yb .....	<= 0.1 ppb
Ca .....	<= 1 ppb	Sr .....	<= 0.5 ppb	Ho .....	<= 0.1 ppb	Y .....	<= 0.1 ppb
Cd .....	<= 0.5 ppb	Ti .....	<= 1 ppb	In .....	<= 0.1 ppb	Tb .....	<= 0.1 ppb
Co .....	<= 0.5 ppb	V .....	<= 0.5 ppb	La .....	<= 0.1 ppb	Chloride .....	<= 0.7 ppm
Cr .....	<= 0.5 ppb	Zn .....	<= 1 ppb	Lu .....	<= 0.1 ppb	Nitrate .....	<= 0.2 ppm
Cu .....	<= 0.5 ppb	Zr .....	<= 0.5 ppb	Nd .....	<= 0.1 ppb	Total phosphorus .....	<= 0.05 ppm
Hg .....	<= 0.1 ppb	Assay (acidimetric) .....	93 - 98 %	Nb .....	<= 0.1 ppb	Reducing substances KMnO4 .....	<= 20 ppm
K .....	<= 1 ppb	Th .....	<= 0.1 ppb	Pr .....	<= 0.1 ppb		
Li .....	<= 0.5 ppb	Colour .....	<= 10 APHA	Rh .....	<= 0.5 ppb		
Mg .....	<= 1 ppb	Ce .....	<= 0.1 ppb	Rb .....	<= 0.5 ppb		

Code	Size	Packaging	Notes
410405	500ml	Plastic bottle	
410406	1l	Plastic bottle	
410407	2,5l	Plastic bottle	

## Sulfuric acid 90-91%

H<sub>2</sub>SO<sub>4</sub>  
Molecular Weight 98,07  
CAS : 7664-93-9  
EEC-N : 231-639-5

**Classification transport**  
ONU: 1830  
Transport Hazard class: 8  
Packing group II



**Danger**

3.2/1A; H314  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

## Sulfuric acid 90-91% > RS-For analysis according to Gerber

RS

Description ..... Clear colourless liquid Density at 20° C ..... 1.815 - 1.821 Assay (acidimetric) ..... 90 - 91 %

Code	Size	Packaging	Notes
410391	1l	Plastic bottle	
410394	2,5l	Glass bottle	
E410395	50kg	Plastic drum	

## Sulfuric acid 72%

H<sub>2</sub>SO<sub>4</sub>  
Molecular Weight 98,07  
CAS : 7664-93-9  
EEC-N : 231-639-5

**Classification transport**  
ONU: 1830  
Transport Hazard class: 8  
Packing group II



**Danger**

3.2/1A; H314  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

## Sulfuric acid 72% > RS-For agroalimentary analysis

RS

Description ..... Clear colourless liquid Density at 20°C ..... 1.629 - 1.639  
Colour ..... <= 10 APHA Assay ..... 71.50 - 72.50 %

Code	Size	Packaging	Notes
502771	2,5l	Glass bottle	

## Sulfuric acid 69%

H<sub>2</sub>SO<sub>4</sub>  
Molecular Weight 98,07  
CAS : 7664-93-9  
EEC-N : 231-639-5

**Classification transport**  
ONU: 1830  
Transport Hazard class: 8  
Packing group II



**Danger**

3.2/1A; H314  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

## Sulfuric acid 69% > RS-For milk analysis

RS

Sulfuric acid content ..... 68.0 - 70.0 % Description ..... Clear, colourless solution


Code	Size	Packaging	Notes
PS0893/21	2,5l	Glass bottle	

# SUL

## Sulfuric acid 62%

H<sub>2</sub>SO<sub>4</sub>  
Molecular Weight 98,07  
CAS : 7664-93-9  
EEC-N : 231-639-5

**Classification transport**  
ONU: 1830  
Transport Hazard class: 8  
Packing group II

 **Danger**  
3.2/1A; H314  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

### Sulfuric acid 62% > RS-For milk analysis

RS


Sulfuric acid content .....61.0 - 63.0 % Description.....Clear, colourless solution

Code	Size	Packaging	Notes
PS0894/21	2,5l	Glass bottle	

## Sulfuric acid 50%

H<sub>2</sub>SO<sub>4</sub>  
Molecular Weight 98,07  
CAS : 7664-93-9  
EEC-N : 231-639-5

**Classification transport**  
ONU: 2796  
Transport Hazard class: 8  
Packing group II

 **Danger**  
3.2/1A; H314  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

### Sulfuric acid 50% > RE-Pure

RE


Description .....Clear colourless liquid Density at 20° C.....1.385 - 1.405  
Identification.....Positive Assay (acidimetric) .....>=49 %

Code	Size	Packaging	Notes
E306702	1l	Glass bottle	
528541	5l	Plastic tank	
E306704	35kg	Plastic drum	

## Sulfuric acid 35% (30°Be)

H<sub>2</sub>SO<sub>4</sub>  
Molecular Weight 98,07  
CAS : 7664-93-9  
EEC-N : 231-639-5

**Classification transport**  
ONU: 2796  
Transport Hazard class: 8  
Packing group II

 **Danger**  
3.2/1A; H314  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

### 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	30kg	Plastic tank	

## Sulfuric acid 25 %

H<sub>2</sub>SO<sub>4</sub>  
Molecular Weight 98,07  
CAS : 7664-93-9  
EEC-N : 231-639-5

**Classification transport**  
ONU: 2796  
Transport Hazard class: 8  
Packing group II

 **Danger**  
3.2/1A; H314  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

### 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	2,5l	Glass bottle	

## Sulfuric acid 20%

H<sub>2</sub>SO<sub>4</sub>  
Molecular Weight 98,07  
CAS : 7664-93-9  
EEC-N : 231-639-5

**Classification transport**  
ONU: 2796  
Transport Hazard class: 8  
Packing group II

 **Danger**  
3.2/1A; H314  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

## Sulfuric acid 20% &gt; RPE-For analysis

RPE

Description .....Clear colourless liquid Density at 20° C.....1.136 - 1.158 Assay .....20 - 22 %


Code	Size	Packaging	Notes
410511000	1l	Plastic bottle	
410516	20kg	Plastic tank	

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

## Sulfuric acid 10% v/v

H<sub>2</sub>SO<sub>4</sub>  
Molecular Weight 98,07  
CAS : 7664-93-9  
EEC-N : 231-639-5

**Classification transport**  
ONU: 2796  
Transport Hazard class: 8  
Packing group II

 **Danger**  
3.2/1A; H314  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

## Sulfuric acid 10% v/v &gt; RPE-For analysis


RPE

Density at 20°C.....1.12 - 1.14

Code	Size	Packaging	Notes
502591	1l	Bottle	

## Sulfuric acid 4 mol/l (8N)

**Classification transport**  
ONU: 2796  
Transport Hazard class: 8  
Packing group II

 **Warning**  
3.2/2; H315-3.3/2; H319  
P280-P264-P305+P351+P338-P332+P313-P337+P313-P362

## Sulfuric acid 4 mol/l (8N) &gt; RS-For COD determination


RS

Description .....Clear colourless liquid Assay .....7.984 - 8.016 N

Code	Size	Packaging	Notes
526741	1l	Bottle	

## Sulfuric acid 2.5 mol/l (5N)

**Classification transport**  
ONU: 2796  
Transport Hazard class: 8  
Packing group II

 **Danger**  
3.2/1A; H314  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

## Sulfuric acid 2.5 mol/l (5N) &gt; RPE-For analysis

RPE

Assay (potentiometry) .....4.995 - 5.005 N

Code	Size	Packaging	Notes
P3240015	1l	Plastic bottle	

# SUL

## Sulfuric acid 1 mol/l (2N)

### Classification transport

ONU: 2796  
 Transport Hazard class: 8  
 Packing group II



### Warning

3.2/2; H315-3.3/2; H319  
 P280-P264-P305+P351+P338-P332+P313-P337+P313-P362

### Sulfuric acid 1 mol/l (2N) > RPE-For analysis

RPE

Description .....Clear colourless liquid Assay (potentiometry).....1.998 - 2.002 N

Code	Size	Packaging	Notes
410547000	1l	Plastic bottle	

98,06 g of H<sub>2</sub>SO<sub>4</sub>. Volumetric solution ready-to-use : 2N. Traceable to NIST

## Sulfuric acid 0.5 mol/l (1N)

### Classification transport

ONU: 2796  
 Transport Hazard class: 8  
 Packing group II



### Warning

3.2/2; H315-3.3/2; H319  
 P280-P264-P305+P351+P338-P332+P313-P337+P313-P362

### Sulfuric acid 0.5 mol/l (1N) > RS-For analysis according to Ph. Eur. Chap. 4.2.2

RS

Code	Size	Packaging	Notes
613007800	1l	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

Code	Size	Packaging	Notes
410577000	1l	Plastic bottle	
410572000	5l	Kubidos	
410575000	5l	Plastic tank	
410571000	10l	Kubidos	
410573	25kg	Plastic tank	

49,03 g of H<sub>2</sub>SO<sub>4</sub>. 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	Normex	Plastic ampoule	

49,04 g of H<sub>2</sub>SO<sub>4</sub>. Volumetric concentrated solution to prepare 1 L of solution 1N

## Sulfuric acid 0.33 mol/l (2N/3)

### 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	1l	Plastic bottle	

32,363 g of H<sub>2</sub>SO<sub>4</sub>. Volumetric solution ready-to-use : 2N/3. Content is guaranteed for standardized volumes at 20°C.



## Sulfuric acid 0.26 mol/l (0.52N)

## ▶ Sulfuric acid 0.26 mol/l (0.52N) &gt; RS-For agroalimentary analysis

RS

Description .....Clear colourless liquid Aspect .....Conform Assay .....0.515 - 0.525 N

Code	Size	Packaging	Notes
502202	5l	Plastic tank	

## Sulfuric acid 0.25 mol/l (0.5N)

## ▶ Sulfuric acid 0.25 mol/l (0.5N) &gt; RPE-For analysis

RPE

Description .....Clear colourless liquid Assay (potentiometry).....0.4995 - 0.5005 N

Code	Size	Packaging	Notes
410667000	1l	Plastic bottle	
410663000	5l	Kubidos	
410662000	10l	Kubidos	

24,52 g of H<sub>2</sub>SO<sub>4</sub>. Volumetric solution ready-to-use : 0,5N. Traceable to NIST

## ▶ Sulfuric acid 0.25 mol/l (0.5N) &gt; RPE-NORMEX -For analysis

RPE

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

Code	Size	Packaging	Notes
410681	Normex	Plastic ampoule	

24,52 g H<sub>2</sub>SO<sub>4</sub>. Volumetric concentrated solution to prepare 1 L of solution 0.5N

## Sulfuric acid 0.166 mol/l (0.333N)

## ▶ Sulfuric acid 0.166 mol/l (0.333N) &gt; RPE-For analysis

RPE

Assay (potentiometry).....0.3331 - 0.3337 N

Code	Size	Packaging	Notes
PS0217/15	1l	Plastic bottle	

## Sulfuric acid 0.13 mol/l (0.26N)

## ▶ Sulfuric acid 0.13 mol/l (0.26N) &gt; RS-For agroalimentary analysis

RS

Description .....Clear colourless liquid Assay .....0.255 - 0.265 N

Code	Size	Packaging	Notes
502651	5l	Plastic tank	

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

## Sulfuric acid 0.125 mol/l (0.25N)

## ▶ Sulfuric acid 0.125 mol/l (0.25N) &gt; RPE-For analysis

RPE

Assay (potentiometry).....0.2495 - 0.2505 N

Code	Size	Packaging	Notes
PS0445/22	5l	Plastic tank	
PS0445/41	10l	Plastic tank	

# SUL

## Sulfuric acid 0.1 mol/l (0.2N)

### 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	1l	Plastic bottle	

## Sulfuric acid 0.05 mol/l (0.1N)

### 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	500ml	Bottle	Ref Ph.Eur 3008000
613008000	1l	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

Code	Size	Packaging	Notes
410717000	1l	Plastic bottle	
410712000	5l	Kubidos	
410711000	10l	Kubidos	
410714000	20l	Plastic tank	
410713000	25l	Plastic tank	

4,904 g of H<sub>2</sub>SO<sub>4</sub>. 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	Normex	Plastic ampoule	

4,904 g of H<sub>2</sub>SO<sub>4</sub>. Volumetric concentrated solution to prepare 1 L of solution 0.1 N

## Sulfuric acid 0.025 mol/l (0.05N)

### Sulfuric acid 0.025 mol/l (0.05N) > RPE-For analysis

RPE

Assay (potentiometry).....0.0499 - 0.0501 N

Code	Size	Packaging	Notes
PS0016/96	10l	Kubidos	

## Sulfuric acid 0.02 mol/l (0.04N)

### Sulfuric acid 0.02 mol/l (0.04N) > RPE-For analysis

RPE

Assay (potentiometry).....0.03992 - 0.04008 N

Code	Size	Packaging	Notes
PS0219/15	1l	Plastic bottle	
PS0219/95	5l	Kubidos	
PS0219/96	10l	Kubidos	

## Sulfuric acid 0.01 mol/l (0.02N)

## ▶ Sulfuric acid 0.01 mol/l (0.02N) &gt; RPE-For analysis

RPE

Assay (potentiometry).....0.01996 - 0.02004 N

Code	Size	Packaging	Notes
PS0047/15	1l	Plastic bottle	

## Sulfuric acid 0.005 mol/l (0.01N)

## ▶ Sulfuric acid 0.005 mol/l (0.01N) &gt; RPE-For analysis

RPE

Assay (potentiometry).....0.00998 - 0.01002 N

Code	Size	Packaging	Notes
PS0026/15	1l	Plastic bottle	
PS0026/95	5l	Kubidos	

## ▶ Sulfuric acid 0.005 mol/l (0.01N) &gt; RPE-NORMEX -For analysis

RPE

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

Code	Size	Packaging	Notes
410791	Normex	Plastic ampoule	

0,490 g of H<sub>2</sub>SO<sub>4</sub>. Volumetric concentrated solution to prepare 1 L of solution 0.01 N

## Sulfuric acid 0.0025 mol/l (0.005N)

## ▶ Sulfuric acid 0.0025 mol/l (0.005N) &gt; RS-For analysis

RS

Assay (potentiometry).....0.00495 - 0.00505 N

Code	Size	Packaging	Notes
424111	10l	Kubidos	

Content is guaranteed for standardized volumes at 20°C.

Sulfuric acid with 10 g/l Ag<sub>2</sub>SO<sub>4</sub>

## Classification transport

ONU: 1830  
 Transport Hazard class: 8  
 Packing group II



## Danger

3.2/1A; H314  
 P260-P280-P304+P340-P305+P351+P338-P405-P501a

▶ Sulfuric acid with 10 g/l Ag<sub>2</sub>SO<sub>4</sub> > RS-For COD determination

RS

Assay .....9.0 - 11.0 g/l

Code	Size	Packaging	Notes
526605	1l	Glass bottle	
526606	2,5l	Glass bottle	

According to NF T90101 of 02/2001

Product specifications are subject to changes.  
 Please visit our website for updates.

## Sulfuric acid with 6.6 g/l Ag<sub>2</sub>SO<sub>4</sub>

**Classification transport**

 ONU: 1830  
 Transport Hazard class: 8  
 Packing group II

**Danger**

 3.2/1A; H314  
 P260-P280-P304+P340-P305+P351+P338-P405-P501a

### Sulfuric acid with 6.6 g/l Ag<sub>2</sub>SO<sub>4</sub> > RS-For COD determination

**RS**

Assay .....6.0 - 7.2 g/l

Code	Size	Packaging	Notes
526602	2,5l	Glass bottle	

According to NF T90101 of 02/2001

## Sulfuric acid d=1,820

 H<sub>2</sub>SO<sub>4</sub>  
 Molecular Weight 98,07  
 CAS : 7664-93-9  
 EEC-N : 231-639-5

**Classification transport**

 ONU: 1830  
 Transport Hazard class: 8  
 Packing group II

**Danger**

 3.2/1A; H314  
 P260-P280-P304+P340-P305+P351+P338-P405-P501a

### Sulfuric acid d=1,820 > RS-For agroalimentary analysis

**RS**

Description .....Clear colourless liquid Colour .....&lt;= 10 APHA Density at 20°C .....1.815 - 1.825

Code	Size	Packaging	Notes
502020	5l	Plastic tank	

According to NF V04-263 and V04-210

## Sulfuric acid, dilute

**Classification transport**

 ONU: 2796  
 Transport Hazard class: 8  
 Packing group II

**Warning**

 3.2/2; H315-3.3/2; H319  
 P280-P264-P305+P351+P338-P332+P313-P337+P313-P362

### Sulfuric acid, dilute > RS-For analysis according to Ph. Eur. Chap. 4.1.1

**RS**

Code	Size	Packaging	Notes
611086804	1l	Bottle	A 98 g/l solution Ref Ph.Eur 1086804

## SUPERPURE range, for trace metal analysis at ppb level

Acetic acid glacial .....2	Hydrofluoric acid 47-51% .....251	Sulfuric acid 93-98% .....528
Ammonia solution 20% .....31	Nitric acid 67-70% .....354	Water .....574
Hydrochloric acid 34-37% .....240	Perchloric acid 65-71% .....376	

## Talc

Synonym : Hydrous magnesium silicate

 3MgO.4SiO<sub>2</sub>.H<sub>2</sub>O  
 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	TAMC.....<= 100 CFU/g
Identification.....Positive	Ca.....<= 0.90 %	Loss on ignition.....<= 7.0 %	TYMC.....<= 50 CFU/g
Acidity or alkalinity.....Conform	Fe.....<= 0.25 %	Asbestos.....Absent	
water-soluble substances.....<= 0.1 %	Mg.....17.0 - 19.5 %	Microbial tests.....	

Code	Size	Packaging	Notes
382107	1kg	Plastic bottle	
382109	5kg	Plastic bottle	
382105	25kg	Plastic bucket	
382104	50kg	Bag	

**Tannic acid** Synonym : *Tannin*

C<sub>76</sub>H<sub>52</sub>O<sub>46</sub>  
 Molecular Weight 1701,23  
 CAS : 1401-55-4  
 EEC-N : 215-753-2

 **Warning**  
 3.1.0/4; H302-4.1.C/3; H412  
 P273-P264-P270-P330-P301+P312-P501a

**Tannic acid > ERBAPharm-According to pharmacopoeia: Ph.Eur.-USP-FU**

**ERBAPharm**

Description ..... Yellowish powder Sulphated ash ..... <= 0.1 % Dextrins, gum, salts, sugars ..... Conform Ph.Eur.  
 Identification ..... Positive Heavy metals (Pb) ..... <= 40 ppm Appearance of solution ..... Conform Ph.Eur.  
 Loss on drying ..... <= 12 % As ..... <= 3 ppm Resins ..... Conform Ph.Eur.

Code	Size	Packaging	Notes
307157	1kg	Plastic bottle	
307152	5kg	Plastic bottle	
307153	25kg	Bag	

**Tannic acid > RE-Pure**

**RE**

Description ..... Brown powder Alcohol solubility ..... Conform Assay (gravimetric) ..... > 94 % s.s.  
 Identification ..... Positive Water ..... < 7 %  
 Water solubility ..... Conform Sulphated ash ..... < 0.3 %

Code	Size	Packaging	Notes
411074	100g	Plastic bottle	
411076	500g	Plastic bottle	

**Tantalum standard solution**

**Tantalum standard solution > RS-Standard for ICP-MS**

**RS**

Code	Size	Packaging	Notes
505871	50ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrofluoric acid and nitric acid
505872	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrofluoric acid and nitric acid
505875	100ml	Plastic bottle	conc. 100 ppm Matrix : Hydrofluoric acid and nitric acid


**Tantalum standard solution > RS-Standard for ICP**

**RS**

Code	Size	Packaging	Notes
503961	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrofluoric acid and nitric acid
503965	100ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrofluoric acid and nitric acid
503963	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrofluoric acid and nitric acid
503967	500ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrofluoric acid and nitric acid

**L(+)-Tartaric acid**

HOOC(CHOH)<sub>2</sub>COOH  
 Molecular Weight 150,09  
 CAS : 87-69-4  
 EEC-N : 201-766-0

 **Warning**  
 3.3/2; H319  
 P280-P264-P305+P351+P338-P337+P313

**T**

**L(+)-Tartaric acid > RPE-For analysis-ACS-ISO**

**RPE**

Description ..... White crystalline powder Chloride ..... <= 10 ppm Heavy metals (Pb) ..... <= 5 ppm  
 Identification ..... Positive Phosphate ..... <= 10 ppm Fe ..... <= 5 ppm  
 Water-insoluble matter ..... <= 50 ppm Oxalate ..... Conform Assay (acidimetric) ..... >= 99.0 %  
 Residue on ignition ..... <= 200 ppm Sulfur compounds (as SO<sub>4</sub>) ..... <= 20 ppm

Code	Size	Packaging	Notes
411125	250g	Plastic bottle	
411127	1kg	Plastic bottle	
411121	25kg	Drum	

Product specifications are subject to changes.  
 Please visit our website for updates.



# TAR

ERBAPharm

## L(+) Tartaric acid >

ERBAPharm-According to pharmacopoeia: DAB-BP-FU-NF-Ph.Eur.-Ph.Franc.

Description.....	White crystalline powder	Loss on drying.....	<=0.2 %	Heavy metals (Pb).....	<=10 ppm
Identification.....	Positive	Sulphated ash.....	<=0.1 %	Calcium.....	<=200 ppm
Appearance of solution.....	Conform Ph.Eur.	Oxalic acid.....	<=350 ppm	Assay (acidimetric).....	99.7 - 100.5 % s.s.
Organic volatile impurities.....	Conform USP-NF	Chloride.....	<=100 ppm	Residual solvents (CPMP/ICH/283/95).....	Conform
Specific optical rotation.....	+12.0 - +12.8 °	Sulphate.....	<=150 ppm		

Code	Size	Packaging	Notes
307357	1kg	Plastic bottle	
307359	5kg	Plastic bottle	

## L(+) Tartaric acid >

ERBAPharm-Crystals-According to pharmacopoeia: Ph.Eur.-NF-FU-Ph.Franc.-BP-DAB

ERBAPharm

Description.....	Colourless crystals	Loss on drying.....	<= 0.2 %	Heavy metals (Pb).....	<= 10 ppm
Identification.....	Positive	Sulphated ash.....	<= 0.1 %	Calcium.....	<= 200 ppm
Appearance of solution.....	Conform Ph.Eur.	Oxalic acid.....	<= 350 ppm	Origin (BSE/TSE).....	Vegetable
Residue solvents.....	Conform USP-NF	Chloride.....	<= 100 ppm	Residual solvents (CPMP/ICH/283/95).....	Conform
Specific optical rotation.....	+12.0 - +12.8 °	Sulphate.....	<= 150 ppm		

Code	Size	Packaging	Notes
307307	1kg	Plastic bottle	
307309	5kg	Plastic bottle	
307301	25kg	Plastic bucket	

## L(+) Tartaric acid solution 20% in water



Warning

3.3/2; H319

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

## L(+) Tartaric acid solution 20% in water > RPE-For analysis

RPE

Description.....	Clear colourless liquid	Density at 15° C.....	~ 1.10
Identification.....	Positive	Assay (acidimetric).....	20 - 21 %

Code	Size	Packaging	Notes
E411131	1l	Plastic bottle	

## Tartrazine

Synonym : Acid Yellow 23

C<sub>16</sub>H<sub>9</sub>N<sub>4</sub>Na<sub>3</sub>O<sub>9</sub>S<sub>2</sub>  
Molecular Weight 534,39  
CAS : 1934-21-0  
EEC-N : 217-699-5

## Tartrazine > RS-For microscopy-C.I. 19140

RS

Description.....	Orange powder	Loss on drying.....	<=6 %
Identification.....	Positive	Assay (oxidimetric).....	>=85 %

Code	Size	Packaging	Notes
486903	50g	Glass bottle	

Bye for histology

## Tauber reagent

Classification transport  
ONU: 3264



Danger

3.2/1A; H314-4.1.C/3; H412

P260-P280-P304+P340-P305+P351+P338-P405-P501a

## Tauber reagent > RS-For microscopy

RS

Description.....	Yellow clear liquid	Identification.....	Positive	Sensitivity ascorbic acid.....	Conform
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Code	Size	Packaging	Notes
490422	500ml	Bottle	

## Taurine

Synonym : 2-Aminoethanesulfonic acid

NH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>SO<sub>3</sub>H  
 Molecular Weight 125,15  
 CAS : 107-35-7  
 EEC-N : 203-483-8



Warning

3.2/2; H315-3.3/2; H319-3.8/3; H335  
 P261-P271-P304+P340-P305+P351+P338-P405-P501a

## Taurine &gt; RPE-For analysis

RPE

Description.....White crystals Sulphate .....<= 140 ppm Residue on ignition .....<= 0.1 %  
 Identification.....Positive Heavy metals (Pb).....<= 20 ppm Assay (acidimetric) .....>= 98.5 %  
 Loss on drying .....<= 0.2 % As .....<= 2 ppm  
 Chloride .....<= 110 ppm Ammonium .....<= 200 ppm

Code	Size	Packaging	Notes
486953	50g	Glass bottle	

## Tellurium standard solution

## Tellurium standard solution &gt; RS-Standard for ICP-MS

RS

Code	Size	Packaging	Notes
505886	50ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505887	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505888	100ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid

## Tellurium standard solution &gt; RS-Standard for ICP

RS

Code	Size	Packaging	Notes
503981	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
503985	100ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrochloric acid
503983	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
503987	500ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrochloric acid

## Tellurium, lumps

Te  
 Molecular Weight 127,61  
 CAS : 13494-80-9  
 EEC-N : 236-813-4

## Classification transport

ONU: 3288  
 Transport Hazard class: 6.1  
 Packing group III



Danger

3.1.0/3; H301-3.1.1/4; H332-3.3/2; H319-3.8/3; H335  
 P261-P271-P304+P340-P305+P351+P338-P405-P501a

## Tellurium, lumps &gt; RPE-For analysis

RPE

Description.....shiny pieces Identification.....Positive Assay (oxidimetric) .....99 - 100 %

Code	Size	Packaging	Notes
487002	25g	Glass bottle	

## Tellurium, powder

Te  
 Molecular Weight 127,6  
 CAS : 13494-80-9  
 EEC-N : 236-813-4

## Classification transport

ONU: 3288  
 Transport Hazard class: 6.1  
 Packing group III



Danger

3.1.0/3; H301-3.1.1/4; H332-3.3/2; H319-3.8/3; H335  
 P261-P271-P304+P340-P305+P351+P338-P405-P501a

## Tellurium, powder &gt; RPE-For analysis

RPE

Description.....Black powder Identification.....Positive Assay (oxidimetric) .....>=99 %

Code	Size	Packaging	Notes
487023	50g	Glass bottle	

## Terbium standard solution

### Terbium standard solution > RS-Standard for ICP-MS

RS

Code	Size	Packaging	Notes
505881	50ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505882	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505885	100ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid

### Terbium standard solution > RS-Standard for ICP

RS

Code	Size	Packaging	Notes
503971	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503975	100ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
503973	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503977	500ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

## sym-Tetrabromoethane ▶ 1,1,2,2-Tetrabromoethane

## Tetrabutylammonium bisulfate

Synonym : Tetrabutylammonium hydrogen sulfate

(C<sub>4</sub>H<sub>9</sub>)<sub>4</sub>NHSO<sub>4</sub>  
Molecular Weight 339,54  
CAS : 32503-27-8  
EEC-N : 251-068-5



### Warning

3.1.O/4; H302-3.3/2; H319  
P280-P305+P351+P338-P330-P337+P313-P301+P312-P501a

### Tetrabutylammonium bisulfate > RPE-For analysis

RPE

Description.....White crystals Assay (acidimetric).....>= 97.5 % Tributylamine.....<= 0.5 %  
Identification.....Positive Melting point .....168 - 172 °C Sulphated ash.....<= 0.5 %

Code	Size	Packaging	Notes
487101	250g	Plastic bottle	

## Tetrabutylammonium bromide

(C<sub>4</sub>H<sub>9</sub>)<sub>4</sub>NBr  
Molecular Weight 322,37  
CAS : 1643-19-2  
EEC-N : 216-699-2



### Warning

3.1.O/4; H302  
P264-P270-P330-P301+P312-P501a

### Tetrabutylammonium bromide > RS-For polarography

RS

Description.....White crystals Identification.....Positive Melting point .....100-104 °C

Code	Size	Packaging	Notes
487051	10g	Glass bottle	

## Tetrabutylammonium hydroxide solution 0.1 mol/l (0.1N)

### Classification transport

ONU: 1993  
Transport Hazard class: 3  
Packing group II



### Danger

2.6/2; H225-3.2/1B; H314-3.8/3; H336-3.3/2; H319  
P210-P241-P304+P340-P305+P351+P338-P403+P235-P405-P501a

### 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	1l	Bottle	Ref Ph.Eur 3008300



▶ **Tetrabutylammonium hydroxide solution 0.1 mol/l (0.1N) > RPE-For analysis**

RPE

Description .....Clear colourless liquid Density at 20° C .....~ 0.80  
 Identification.....Positive Titration factor.....0.995 - 1.005

Code	Size	Packaging	Notes
487031	500ml	Glass bottle	

▶ **Tetrabutylammonium hydroxide solution 0.1 mol/l (0.1N) in methanol / propanol-2 (50/50)** ◀**Classification transport**

ONU: 1228

Transport Hazard class: 3

Packing group II

**Danger**

2.6/2; H225-3.1.D/3; H311-3.8/1; H370-H336-3.3/1; H318-3.2/2; H315  
 P210-P241-P305+P351+P338-P307+P311-P403+P235-P405-P501a

▶ **Tetrabutylammonium hydroxide solution 0.1 mol/l (0.1N) in methanol / propanol-2 (50/50) > RPE-For analysis**

RPE

Assay (potentiometry).....0.0998 - 0.1002 N

Code	Size	Packaging	Notes
P3840016	1l	Glass bottle	

▶ **Tetrabutylammonium hydroxide solution 0.1 mol/l (0.1N) in 2-propanol** ◀**Classification transport**

ONU: 1993

Transport Hazard class: 3

Packing group II

**Danger**

2.6/2; H225-3.2/1B; H314-3.8/3; H336-3.3/2; H319  
 P210-P241-P304+P340-P305+P351+P338-P403+P235-P405-P501a

▶ **Tetrabutylammonium hydroxide solution 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	1l	Bottle	Ref Ph.Eur 3008400

▶ **Tetrachloroethane-d2** ◀Cl<sub>2</sub>CDCl<sub>2</sub>

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**

3.1.D/1; H310-3.1.I/2; H330-4.1.C/2; H411  
 P260-P271-P302+P350-P304+P340-P405-P501a

▶ **Tetrachloroethane-d2 > RS-For NMR-min 99.5%**

RS

Code	Size	Packaging	Notes
P5435	25ml	Glass bottle	

▶ **Tetrachloroethylene** ◀Synonym : *Perchloroethylene*C<sub>2</sub>Cl<sub>4</sub>

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**

3.6/2; H351-4.1.C/2; H411  
 P281-P273-P308+P313-P391-P405-P501a

▶ **Tetrachloroethylene > RPE-For analysis**

RPE

Description .....Clear colourless liquid Phosgene.....Conform Water (K.F.).....<= 200 ppm Chloride .....<= 1 ppm  
 Identification.....Positive Ready carbonizable substances .....Conform Residue on evaporation .....<= 10 ppm Assay (GLO).....>= 99.5 %  
 Alcohol miscibility .....Complete Density at 20° C .....1.618 - 1.628 Acidity (HCl).....<= 5 ppm  
 Benzene miscibility .....Complete Refractive index at 20°C .....1.5014 - 1.5074 Alkalinity (NH<sub>3</sub>).....<= 0.5 ppm  
 Diethyl ether miscib. ....Complete Boiling point .....120.3 - 121.8 °C Free chlorine .....<= 0.1 ppm

Code	Size	Packaging	Notes
449671	1l	Glass bottle	
449672	2,5l	Glass bottle	
449673	35kg	Glass-polystyrene container	

## Tetrachloroethylene > RE-Pure

**RE**

Description .....Clear colourless liquid Density at 20° C.....1.618 - 1.628 Assay (GLC).....>=98 %  
 Identification.....Positive Residue on evaporation.....<=20 ppm

Code	Size	Packaging	Notes
343001	1l	Glass bottle	
343003	40kg	Metal tank	

## Tetrachloroethylene > RE-Pure-For synthesis

**RE**

Refractive index at 20°C .....1.503 - 1.507 Non volatile residue .....<= 50 mg/Kg Assay (GC).....>= 99 %  
 Water content (K.F.).....<= 100 mg/Kg Colour .....<= 10 Hazen

Code	Size	Packaging	Notes
P0680228	5l	Plastic tank	

## Tetraethylammonium bromide

(C<sub>2</sub>H<sub>5</sub>)<sub>4</sub>NBr  
 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	25g	Glass bottle	

## Tetrahydrofuran

OCH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>  
 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**

2.6/2; H225-3.6/2; H351-3.3/2; H319-3.8/3; H335-EUJ019  
 P210-P241-P304+P340-P305+P351+P338-P403+P235-P405-P501a

## Tetrahydrofuran > RS-For HPLC Isocratic-Not stabilized

**RS**

Description .....Clear colourless liquid Residue on evaporation .....<=2 ppm At 230 nm.....>=15 % At 280 nm.....>=92 %  
 Identification.....Positive Peroxide.....<=200 ppm At 240 nm.....>=40 % At 310 nm.....>= 98 %  
 Density at 20° C.....0.885 - 0.893 Acidity.....<=0.00035 meq/g At 250 nm.....>=55 % At 315 nm.....>= 99 %  
 Refractive index at 20°C .....1.4040 - 1.4100 Alkalinity.....<=0.0006 meq/g At 260 nm.....>=70 %  
 Boiling point .....64.0 - 65.0 ° C Assay (GLC).....>=99.9 % At 270 nm.....>=85 %  
 Water (K.F.).....<=200 ppm **U.V. Transmittance** At 275 nm.....>= 90 %

Code	Size	Packaging	Notes
412451000	1l	Glass bottle	
412453000	1l	Glass bottle PVC coated	
412452000	2,5l	Glass bottle	

Filtered through 0.2 µm membrane

## Tetrahydrofuran > RS-For HPLC Isocratic-Stabilized with BHT

**RS**

Clear, colourless liq. appearance .....Conform Stabilizer (jonol) .....40 - 60 mg/Kg At 320 nm.....>= 95 %  
 Identification.....Conform **U.V. Transmittance** Free acid (as CH<sub>3</sub>COOH) .....<= 20 mg/Kg  
 Colour.....<= 10 Apha At 240 nm.....>= 10 % Assay (GC).....>= 99.8 %  
 Refractive index at 20°C .....1.405 - 1.409 At 250 nm.....>= 40 % Non volatile residue (without stab.) .....<= 5 mg/Kg  
 Water content (K.F.).....<= 200 mg/Kg At 280 nm.....>= 30 %  
 Peroxides (as H<sub>2</sub>O<sub>2</sub>).....<= 50 mg/Kg At 300 nm.....>= 90 %

Code	Size	Packaging	Notes
412471	1l	Glass bottle	
412472	2,5l	Glass bottle	

▶ **Tetrahydrofuran > RS-For HPLC preparative-Not stabilized**

Description	Clear colourless liquid	Boiling point	64.0 - 65.0 °C	Peroxide	<=50 ppm	Stabilizer (Iono)	40 - 60 ppm
Identification	Positive	Water (K.F.)	<=200 ppm	Assay (GLC)	>=99.8 %		
Density at 20° C	0.885 - 0.893	Residue on evaporation	<=5 ppm	<b>U.V. Transmittance</b>			
Refractive index at 20° C	1.4040 - 1.4100	Alcalinity	<=0.0002 meq/g	at 320 nm	>=90 %		

Code	Size	Packaging	Notes
487352	2,5l	Glass bottle	

▶ **Tetrahydrofuran > RS-SPECTROSOL-For optical spectroscopy-Non stabilized**

Description	Clear liquid	Boiling point	64.0 - 65.0 °C	Peroxides (H2O2)	<=300 ppm	At 300 nm	>=95 %
Colour	<=10 APHA	Water (K.F.)	<=200 ppm	Assay (GLC)	>=99.9 %	At 320 nm	>=98 %
Identification	Positive	Residue on evaporation	<=5 ppm	<b>U.V. Transmittance</b>			
Density at 20° C	0.885 - 0.893	Acidity	<=0.0005 meq/g	At 240 nm	>=30 %		
Refractive index at 20° C	1.4040 - 1.4100	Alcalinity	<=0.0002 meq/g	At 250 nm	>=50 %		

Code	Size	Packaging	Notes
487345	1l	Glass bottle	

▶ **Tetrahydrofuran > RS-Anhydrous-For analysis-Stabilized with BHT**

Refractive index at 20° C	1.405 - 1.409	Stabilizer (Iono)	200 - 400 mg/Kg	Identification (IR)	Conform
Water content (K.F.)	<= 100 mg/Kg	Free acid (as CH3COOH)	<= 20 mg/Kg	Density d20/4	0.884 - 0.894
Colour	<= 10 Hazen	Clear, colourless liq. appearance	Conform	Non volatile residue (without stab.)	<= 10 mg/Kg
Peroxides (as H2O2)	<= 20 mg/Kg				

Code	Size	Packaging	Notes
P0701010	200ml	Bottle with sept	
P07010T10	200ml	Bottle with sept	On molecular sieves 4A
P0701016	1l	Glass bottle	
P07010T16	1l	Glass bottle	On molecular sieves 4A
P0701021	2,5l	Glass bottle	

▶ **Tetrahydrofuran > RPE-For analysis-Stabilized with BHT**

Description	Clear colourless liquid	Peroxides (H2O2)	<=20 ppm	Mg	<=0.1 ppm
Identification (I.R.)	Conform	Al	<=0.5 ppm	Min	<=0.02 ppm
Density at 20° C	0.885 - 0.893	Ba	<=0.1 ppm	Ni	<=0.02 ppm
Refractive index at 20° C	1.4040 - 1.4100	Ca	<=0.5 ppm	Pb	<=0.1 ppm
Boiling point	64.0 - 65.0 °C	Cd	<=0.05 ppm	Sn	<=0.1 ppm
Water (K.F.)	<=150 ppm	Co	<=0.02 ppm	Zn	<=0.1 ppm
Residue on evaporation	<=600 ppm	Cr	<=0.02 ppm	Assay (GLC)	>=99.9 %
Acidity (acetic acid)	<=20 ppm	Cu	<=0.02 ppm	Stabilized with BHT	200 - 350 ppm
Alcalinity (NH3)	<=7 ppm	Fe	<=0.1 ppm	Residue on evaporation (without stab.)	<= 10 ppm

Code	Size	Packaging	Notes
487308	1l	Glass bottle	
487303	2,5l	Glass bottle	
487305	5l	Plastic tank	
487307	5l	Aluminium can	
487309	200l	Metal drum	
487301	23kg	Metal tank	

▶ **Tetrahydrofuran > RE-Pure-Stabilized with BHT**

Description	Clear colourless liquid	Boiling point	63.8 - 65.3 °C	Assay (GLC)	>=99.5 %
Identification	Positive	Water (K.F.)	<=200 ppm	Residue on evaporation (without stab.)	<= 50 ppm
Density at 20° C	0.884 - 0.894	Acidity	<=50 ppm	Stabilized with BHT	200 - 350 ppm
Refractive index at 20° C	1.4020 - 1.4120	Peroxides (H2O2)	<=100 ppm		

Code	Size	Packaging	Notes
382981	1l	Glass bottle	
382985	2,5l	Glass bottle	
382982	5l	Aluminium can	
528481	5l	Plastic tank	
382983	200l	Metal drum	
382986	23kg	Metal tank	

**Tetrahydrofuran-d8**

C<sub>4</sub>D<sub>8</sub>O  
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**

2.6/1; H224-3.3/2; H319-3.8/3; H335-EUJ019  
P210-P241-P304+P340-P305+P351+P338-P403+P235-P405-P501a

▶ **Tetrahydrofuran-d8 > RS-For NMR-min 99.5%**

Code	Size	Packaging	Notes
P5380	2x0,6ml	Ampoule	
P5385	25ml	Glass bottle	

# TET

## 1,2,3,4-Tetrahydronaphthalene

Synonym : Tetralin® solvent

C<sub>6</sub>H<sub>4</sub>CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>  
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**

3.2/2; H315-3.3/2; H319-4.1.C/2; H411-EUH019  
P280-P305+P351+P338-P332+P313-P337+P313-P362-P501a

### 1,2,3,4-Tetrahydronaphthalene > RPE-For analysis

RPE

Description .....Clear colourless liquid    Refractive index at 20°C .....1.5436 - 1.5486    Water (K.F.) .....<=500 ppm  
Identification.....Positive    Boiling point .....206.8 - 207.8 °C    Assay (GLC) .....>=98 %  
Density at 20° C.....0.968 - 0.978    Acidity or alkalinity.....<=0.0001 meq/g

Code	Size	Packaging	Notes
487413	1l	Glass bottle	

### 1,2,3,4-Tetrahydronaphthalene > RE-Pure

RE

Description .....Clear colourless liquid    Refractive index at 20°C .....1.5411 - 1.5511    Assay (GLC) .....>=97 %  
Identification.....Positive    Boiling point .....206.3 - 208.3 °C  
Density at 20° C.....0.968 - 0.978    Residue on ignition .....<=100 ppm

Code	Size	Packaging	Notes
383002	1l	Glass bottle	
383001	26kg	Metal tank	

## Tetramethylammonium hydroxide 10%

C<sub>4</sub>H<sub>13</sub>NO  
Molecular Weight 91,15  
CAS : 75-59-2

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



**Danger**

2.6/2; H225-3.1.D/1; H310-3.2/1C; H314  
P210-P241-P302+P350-P304+P340-P305+P351+P338-P403+P235-P405-P501a

### 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	100ml	Glass bottle	
487492	250ml	Glass bottle	

## 3,3',5,5'-Tetramethylbenzidine

C<sub>16</sub>H<sub>20</sub>N<sub>2</sub>  
Molecular Weight 240,35  
CAS : 54827-17-7  
EEC-N : 259-364-6



**Danger**

3.1.O/3; H301-3.1.D/3; H311-3.1.I/2; H330  
P260-P271-P280-P304+P340-P405-P501a

### 3,3',5,5'-Tetramethylbenzidine > RS-For blood detection

RS

Description .....Ivory powder    Identification.....Positive

Code	Size	Packaging	Notes
487192	5g	Glass bottle	

## n,n,n',n'-Tetramethyl-p-phenylenediamine dihydrochloride

C<sub>6</sub>H<sub>4</sub>[N(CH<sub>3</sub>)<sub>2</sub>]<sub>2</sub>.2HCl  
Molecular Weight 237,17  
CAS : 637-01-4  
EEC-N : 211-274-8



**Warning**

3.2/2; H315-3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

### n,n,n',n'-Tetramethyl-p-phenylenediamine dihydrochloride > RPE-For analysis

RPE

Description .....White-hazel crystalline powder    Melting point .....219 - 222 °C  
Identification.....Positive    Assay (non-aqueous medium) .....>= 98.5 %

Code	Size	Packaging	Notes
487601	5g	Glass bottle	

## Tetramethylsilane

(CH<sub>3</sub>)<sub>4</sub>Si  
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**

2.6/1; H224  
P210-P241-P243-P303+P361+P353-P403+P235-P501a

## ▶ Tetramethylsilane &gt; RS-For NMR-min 99.8%

RS

Code	Size	Packaging	Notes
P5455S	25ml	Bottle with sept	

## Tetrazolium blue

C<sub>4</sub>H<sub>3</sub>N<sub>3</sub>O<sub>2</sub>Cl<sub>2</sub>  
Molecular Weight 727,65  
CAS : 1871-22-3  
EEC-N : 217-488-8

**Classification transport**  
ONU: 3143  
Transport Hazard class: 6.1  
Packing group III

## ▶ Tetrazolium blue &gt; RS-For microscopy

RS

Description.....Pale yellow powder Identification.....Positive Melting point.....~ 245 °C

Code	Size	Packaging	Notes
429187	1g	Glass bottle	

## Thallium standard solution

## ▶ Thallium standard solution &gt; RS-For analysis according to Ph. Eur. Chap. 4.1.2

RS

Code	Size	Packaging	Notes
615003000	100ml	Bottle	A 10 ppm solution Ref Ph.Eur 5003000

## ▶ Thallium standard solution &gt; RS-Standard for ICP-MS

RS

Code	Size	Packaging	Notes
505911	50ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505912	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505915	100ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid

## ▶ Thallium standard solution &gt; RS-Standard for ICP

RS

Code	Size	Packaging	Notes
504011	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
504015	100ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
504013	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
504017	500ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

## Thioacetamide

CH<sub>3</sub>CSNH<sub>2</sub>  
Molecular Weight 75,133  
CAS : 62-55-5  
EEC-N : 200-541-4

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



**Danger**

3.6/1B; H350-3.1.0/4; H302-3.2/2; H315-3.3/2; H319-4.1.C/3; H412-A26  
P280-P305+P351+P338-P308+P313-P330-P405-P501a

## ▶ Thioacetamide &gt; RPE-For analysis-ACS-Reag.Ph.Eur.-Reag.USP

RPE

Description.....White crystalline powder Melting point.....111 - 114 °C Assay (argentimetric).....>= 99.0 %  
Identification.....Positive Residue on ignition.....<= 500 ppm Appearance of solution 2%.....Conform

Code	Size	Packaging	Notes
487803	50g	Glass bottle	
487807	500g	Plastic bottle	

# THI

## Thioacetamide solution 40 g/l



**Danger**

3.6/1B; H350-A26  
P281-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	100ml	Bottle	Ref Ph.Eur 1089602
611089602	1l	Bottle	Ref Ph.Eur 1089602

## 2-Thiobarbituric acid

NHCOCH<sub>2</sub>CONHCS  
Molecular Weight 144,15  
CAS : 504-17-6  
EEC-N : 207-985-8

### 2-Thiobarbituric acid > RPE-For analysis

RPE

Description.....Yellowish crystalline powder Loss on drying .....<= 2 % Assay (acidimetric).....>= 97.5 % (s.s.)  
Identification.....Positive Sulphated ash.....<= 0.5 %

Code	Size	Packaging	Notes
411271	5g	Glass bottle	

## Thioglycolic acid 80%

CH<sub>2</sub>SHCOOH  
Molecular Weight 92,17  
CAS : 68-11-1

### Classification transport

ONU: 1940  
Transport Hazard class: 8  
Packing group II



**Danger**

3.1.O/3; H301-3.1.D/3; H311-3.1.I/3; H331-3.2/1B; H314  
P260-P261-P304+P340-P305+P351+P338-P405-P501a

### Thioglycolic acid 80% > RPE-For analysis

RPE

Description.....Clear colourless liquid Heavy metals (Pb).....<=10 ppm Fe.....<=50 ppm  
Identification.....Positive Iron sensitivity.....>=0.1 µg/ml Assay (oxidimetric).....>=80 %  
Density at 20° C.....1.249 - 1.269 Sulphate.....<=50 ppm

Code	Size	Packaging	Notes
411385	500ml	Glass bottle	

## Thiourea

Synonyms : *Sulfoarea*  
*Thiocarbamide*

NH<sub>2</sub>CSNH<sub>2</sub>  
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**

3.6/2; H351-3.7/2; H361d-3.1.O/4; H302-4.1.C/2; H411  
P281-P308+P313-P330-P301+P312-P405-P501a

### Thiourea > RPE-For analysis-ACS

RPE

Description.....White crystalline powder Melting point .....174 - 177 °C Bismuth sensitivity .....Conform  
Identification.....Positive Loss on drying .....<=0.5 % Assay (argentimetric).....>=99.0 % s.s.  
Water solubility.....Conform Residue on ignition.....<=0.1 %

Code	Size	Packaging	Notes
488105	250g	Plastic bottle	
488107	1kg	Plastic bottle	
488101	50kg	Fibre drum	

## ▶ Thiourea > RE-Pure

Description .....White crystalline powder    Loss on drying .....<=2 %    Fe.....<=10 ppm  
 Identification.....Positive    Heavy metals (Pb).....<=10 ppm    Assay (argentimetric).....>=98 %  
 Melting point .....173 - 178 °C    Residue on ignition .....<=0,1 %

Code	Size	Packaging	Notes
385407	1kg	Plastic bottle	
385409	5kg	Plastic bottle	
385403	25kg	Fibre drum	

## Thiourea HCl

NH<sub>2</sub>CSNH<sub>2</sub>  
 Molecular Weight 76,12  
 CAS : 62-56-6

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

**Warning**  
 3.6/2; H351-3.7/2; H361d-3.1.0/4; H302-4.1.C/3; H412  
 P281-P308+P313-P330-P301+P312-P405-P501a

## ▶ Thiourea HCl > RPE-For analysis

Description .....Clear colourless liquid    Identification.....Positive    Assay .....0.25 ÷ 0.35 HCl %

Code	Size	Packaging	Notes
488115	250ml	Bottle	

*Cleaning solution*

## Thorin

H<sub>2</sub>O<sub>3</sub>AsC<sub>6</sub>H<sub>4</sub>N:NC<sub>10</sub>H<sub>4</sub>(SO<sub>3</sub>Na)<sub>2</sub>OH  
 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**  
 3.1.0/3; H301-3.1.1/3; H331-4.1.A/1; H400-4.1.C/1; H410  
 P261-P271-P304+P340-P301+P310-P405-P501a

## ▶ Thorin > RPE-For analysis

Description .....Red powder    Identification.....Positive

Code	Size	Packaging	Notes
402392	1g	Glass bottle	

*Complexometric indicator.*

## Thorium standard solution

### ▶ Thorium standard solution > RS-Standard for ICP-MS

Code	Size	Packaging	Notes
505901	50ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505902	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505905	100ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid

### ▶ Thorium standard solution > RS-Standard for ICP

Code	Size	Packaging	Notes
504281	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
504285	100ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
504283	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
504287	500ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

# THO

## Thorium nitrate 10 mg/L solution

Thorium nitrate 10 mg/L solution > RS-Matrix modifiers for AAS-GTA

RS

Code	Size	Packaging	Notes
503199	50ml	Bottle	Matrix : 1% Nitric acid

## Thulium standard solution

Thulium standard solution > RS-Standard for ICP-MS

RS

Code	Size	Packaging	Notes
505916	50ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505917	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505918	100ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid

## Thymol

Synonym : 5-Methyl-2-(1-methylethyl)phenol

C<sub>10</sub>H<sub>14</sub>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**

3.2/1B; H314-3.1.O/4; H302-4.1.C/2; H411  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

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	250g	Plastic bottle	
384202	2,5kg	Plastic bottle	

## Thymol blue

Synonym : Thymolsulfonphthalein

C<sub>27</sub>H<sub>30</sub>O<sub>6</sub>S  
Molecular Weight 466,6  
CAS : 76-61-9  
EEC-N : 200-973-3

Thymol blue > RPE-For analysis

RPE

Description ..... Dark green powder  
Identification ..... Positive  
Appearance of solution ..... Conform  
pH range ..... 1.2 - 2.8  
Colour change ..... Red - yellow  
pH range ..... 8.0 - 9.6  
Colour change ..... Yellow - blue

Code	Size	Packaging	Notes
429228	5g	Glass bottle	
429223	50g	Plastic bottle	

## Thymol blue 0.4% in ethanol

**Classification transport**  
ONU: 1170  
Transport Hazard class: 3  
Packing group III



**Warning**

2.6/3; H226  
P210-P241-P243-P303+P361+P353-P403+P235-P501a

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	250ml	Glass bottle	

Acid-basis indicator (pH 1,2÷2,8-pH 8,2÷9,6).



## Thymol blue solution

**Classification transport**  
 ONU: 2924  
 Transport Hazard class: 3  
 Packing group III

 **Warning**  
 2.6/3; H226  
 P210-P241-P243-P303+P361+P353-P403+P235-P501a

### Thymol blue solution > RS-For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611090601	100ml	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).

## Thymolphthalein

C<sub>28</sub>H<sub>30</sub>O<sub>4</sub>  
 Molecular Weight 430,55  
 CAS : 125-20-2  
 EEC-N : 204-729-7

### Thymolphthalein > RPE-For analysis-ACS

RPE

Description .....White crystalline powder Colour change .....Colorless - Blue  
 Identification.....Positive pH range.....9.3 - 10.5


Code	Size	Packaging	Notes
487728	5g	Glass bottle	

Michaelis indicator series.

## Thymolphthalein solution 0.1% hydroalcoholic

C<sub>28</sub>H<sub>30</sub>O<sub>4</sub>  
 CAS : 125-20-2  
 EEC-N : 204-729-7

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

 **Danger**  
 2.6/2; H225  
 P210-P241-P243-P303+P361+P353-P403+P235-P501a

### Thymolphthalein solution 0.1% hydroalcoholic > 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 .....Colorless - Blue


Code	Size	Packaging	Notes
E487755	250ml	Glass bottle	

Michaelis indicator series.

## Thymolphthalein solution 0.1% in ethanol

C<sub>28</sub>H<sub>30</sub>O<sub>4</sub>  
 CAS : 125-20-2  
 EEC-N : 204-729-7

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

 **Danger**  
 2.6/2; H225  
 P210-P241-P243-P303+P361+P353-P403+P235-P501a

### Thymolphthalein solution 0.1% in ethanol > RS-For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611090701	100ml	Bottle	Ref Ph.Eur 1090701

Colour change: pH 9.3 (colourless) to pH 10.5 (blue)

# TIN

## Tin standard solution

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

RS

Code	Size	Packaging	Notes
615003101	100ml	Bottle	A 0,1 ppm solution : to dilute according to Ref Ph.Eur 5003101
615003109	100ml	Bottle	A 5 ppm solution : to dilute according to Ref Ph.Eur 5003100

### Tin standard solution > RS-Standard for ICP-MS

RS

Code	Size	Packaging	Notes
505861	50ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrofluoric acid and nitric acid
505862	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrofluoric acid and nitric acid
505865	100ml	Plastic bottle	conc. 100 ppm Matrix : Hydrofluoric acid and nitric acid

### Tin standard solution > RS-Standard for ICP

RS

Code	Size	Packaging	Notes
503941	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
503945	100ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrochloric acid
503943	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
503947	500ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrochloric acid

### Tin standard solution > RS-Standard for AAS

RS

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

Code	Size	Packaging	Notes
E497655	100ml	Glass bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
E497651	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid

### 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	Normex	Plastic ampoule	conc. 1.000 ppm Matrix : Hydrochloric acid

## Tin, foil

Sn  
Molecular Weight 118,69  
CAS : 7440-31-5  
EEC-N : 231-141-8

### Tin, foil > RPE-For analysis

RPE

Description .....Metallic foil Identification.....Positive Assay (gravimetric) .....>=99 %

Code	Size	Packaging	Notes
484884	100g	Bag	
484887	1kg	Bag	

## Tin, powder

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	100g	Glass bottle	
484917	1kg	Plastic bottle	

## Tin (II) chloride dihydrate

SnCl<sub>2</sub>·2H<sub>2</sub>O  
Molecular Weight 225,63  
CAS : 10025-69-1  
EEC-N : 231-868-0



**Warning**  
3.1.0/4; H302-3.1.1/4; H332-3.2/2; H315  
P261-P271-P280-P304+P340-P312-P501a

## Tin (II) chloride dihydrate &gt; RPE-For analysis-ACS

RPE

Description.....White crystals    Ca.....<= 50 ppm    Pb.....<= 100 ppm  
Identification.....Positive    Fe.....<= 30 ppm    Assay (oxidimetric).....98.0 - 103.0 %  
HCl solubility.....Conform    K.....<= 50 ppm  
Sulphate.....Conform    Na.....<= 100 ppm

Code	Size	Packaging	Notes
485005	250g	Plastic bottle	
485007	1kg	Plastic bottle	
485002	5kg	Plastic bottle	

## Tin (II) chloride dihydrate &gt; RE-Pure

RE

Description.....White crystals    Identification.....Positive    Assay (oxidimetric).....>=97.0 %

Code	Size	Packaging	Notes
379406	500g	Plastic bottle	
379403	25kg	Fibre drum	

## Tin (II) chloride solution 10%



**Warning**  
3.2/2; H315  
P280-P264-P332+P313-P362-P302+P352

## Tin (II) chloride solution 10% &gt; RPE-For analysis

RPE

Description.....Clear colourless liquid    Density at 20° C.....1.075 - 1.085  
Identification.....Positive    Assay.....9.5 - 10.5 %

Code	Size	Packaging	Notes
E485041	1l	Glass bottle	

## Tin (II) sulfate

SnSO<sub>4</sub>  
Molecular Weight 214,75  
CAS : 7488-55-3  
EEC-N : 231-302-2

## Tin (II) sulfate &gt; RE-Pure

RE

Description.....Yellowish crystalline powder    Cu.....<=20 ppm    Pb.....<=200 ppm  
Identification.....Positive    Fe.....<=100 ppm    Assay (oxidimetric).....>=95 %  
Co.....<=50 ppm    Ni.....<=20 ppm

Code	Size	Packaging	Notes
379601	1kg	Plastic bottle	

# TIN

## Tin (IV) chloride pentahydrate

SnCl<sub>4</sub>·5H<sub>2</sub>O  
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**  
3.2/1B; H314-4.1.C/3; H412  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

### 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. H<sub>2</sub>S.....<=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	100g	Glass bottle	
485076	500g	Plastic bottle	
485072	2,5kg	Plastic bottle	

## Tin (IV) oxide

SnO<sub>2</sub>  
Molecular Weight 150,69  
CAS : 18282-10-5  
EEC-N : 242-159-0

### Tin (IV) oxide > RPE-For analysis

**RPE**

Description.....Yellow powder  
Identification.....Positive  
Loss on ignition.....<=0.5 %  
Alcalinity (NaOH).....<=0.1 %  
Other heavy metals.....<=0.1 %  
Chloride.....<=20 ppm  
Sulphate.....<=50 ppm  
Water solubility.....<=0.25 %  
As.....<=200 ppm  
Fe.....<=20 ppm

Code	Size	Packaging	Notes
485154	100g	Glass bottle	

## Tiron

Synonym : 4,5-Dihydroxy-1,3-benzenedisulfonic acid disodium salt monohydrate

C<sub>6</sub>H<sub>4</sub>O<sub>8</sub>S<sub>2</sub>Na<sub>2</sub>·H<sub>2</sub>O  
Molecular Weight 332,21  
CAS : 149-45-1  
EEC-N : 205-741-5



**Warning**  
3.2/2; H315-3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

### Tiron > RPE-For analysis

**RPE**

Description.....Whitish powder  
Identification.....Positive  
Loss on drying.....4 -6 %

Code	Size	Packaging	Notes
488131	10g	Glass bottle	

Complexometric indicator.

## Tisab III solution

**Classification transport**  
ONU: 2734



**Danger**  
3.2/1A; H314-2.6/3; H226  
P210-P241-P304+P340-P305+P351+P338-P403+P235-P405-P501a

### 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	500ml	Bottle	

## Titanium standard solution

## ▶ Titanium standard solution &gt; RS-For analysis according to Ph. Eur. Chap. 4.1.2

RS

Code	Size	Packaging	Notes
615003200	1l	Bottle	A 100 ppm solution Ref Ph.Eur 5003200

## ▶ Titanium standard solution &gt; RS-Standard for ICP-MS

RS

Code	Size	Packaging	Notes
505906	50ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrofluoric acid and nitric acid
505907	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrofluoric acid and nitric acid
505908	100ml	Plastic bottle	conc. 100 ppm Matrix : Hydrofluoric acid and nitric acid

## ▶ Titanium standard solution &gt; RS-Standard for ICP

RS

Code	Size	Packaging	Notes
504001	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrofluoric acid and hydrochloric acid
504005	100ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrofluoric acid and hydrochloric acid
504003	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrofluoric acid and hydrochloric acid
504007	500ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrofluoric acid and hydrochloric acid

## Titanium dioxide

Synonym : Titanium(IV) oxide

TiO<sub>2</sub>  
 Molecular Weight 79,9  
 CAS : 13463-67-7  
 EEC-N : 236-675-5

## ▶ Titanium dioxide &gt; RPE-For analysis

RPE

Description.....	White powder	Phosphate .....	<=0.1 %	Water solubility .....	<=0.4 %	Zn .....	<=50 ppm
Identification.....	Positive	H <sub>2</sub> SO <sub>4</sub> -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 .....	<=100 ppm	Solubility in dil. HCl.....	<=0.5 %	Pb .....	<=10 ppm		

Code	Size	Packaging	Notes
488257	1kg	Plastic bottle	
488251	10kg	Bag	

## ▶ Titanium dioxide &gt; 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	1kg	Plastic bottle	
385752	5kg	Plastic tank	
385753	25kg	Plastic bucket	

## ▶ Titanium dioxide &gt; 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	1kg	Plastic bottle	
385709	5kg	Plastic bottle	
385702	25kg	Drum	

Product specifications are subject to changes.  
 Please visit our website for updates.

## Titanium isopropylate

Ti[OCH(CH<sub>3</sub>)<sub>2</sub>]<sub>4</sub>  
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**  
3.1.1/3; H331-2.6/3; H226-3.3/2; H319-3.8/3; H336  
P210-P241-P304+P340-P305+P351+P338-P403+P235-P405-P501a

## Titanium isopropylate &gt; 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	100ml	Glass bottle	

## Titanium tetrachloride

Synonym : Titanium(IV) chloride

TiCl<sub>4</sub>  
Molecular Weight 189,71  
CAS : 7550-45-0  
EEC-N : 231-441-9

**Classification transport**  
ONU: 1838  
Transport Hazard class: 8  
Packing group III



**Danger**  
3.2/1B; H314-EUH014  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

## Titanium tetrachloride &gt; RPE-For analysis

RPE

Description.....Yellowish clear liquid Density at 20° C.....1.719 - 1.725 Assay (argentimetric).....>=98 %  
Identification.....Positive Boiling point .....135.4 - 137.4 ° C

Code	Size	Packaging	Notes
488402	500ml	Glass bottle PVC coated	

## Titanium trichloride solution 15%

TiCl<sub>3</sub>  
Molecular Weight 154,27  
CAS : 7705-07-9

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



**Danger**  
3.2/1B; H314-3.8/3; H335  
P260-P261-P304+P340-P305+P351+P338-P405-P501a

## Titanium trichloride solution 15% &gt; RPE-For analysis

RPE

Description.....Purple clear liquid Density at 20° C.....1.19 - 1.21  
Identification.....Positive Assay (oxidimetric) .....14.5 - 15.5 %

Code	Size	Packaging	Notes
E488354	1l	Glass bottle	

## Titanium trichloride-sulfuric acid reagent

**Classification transport**  
ONU: 1760  
Transport Hazard class: 8  
Packing group II



**Danger**  
3.2/1A; H314  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

Titanium trichloride-sulfuric acid reagent >  
RS-For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611091202	100ml	Bottle	Ref Ph.Eur 1091202

## TLC aluminium sheets

## TLC aluminium sheets &gt; RS-For thin layer chromatography

RS

Code	Size	Packaging	Notes
MNL818132	cm5x20	50 pcs	Silica Gel 60 F254 0.2 mm thick
MNL818145	cm5x20	50 pcs	RP18 silica F254 0.2 mm thick
MNL818033	cm20x20	25 pcs	Silica Gel 60 0.2 mm thick
MNL818133	cm20x20	25 pcs	Silica Gel 60 F254 0.2 mm thick
MNL818023	cm20x20	25 pcs	Alumina 60A F254
MNL818146	cm20x20	25 pcs	RP18 silica F254 0.2 mm thick

## TLC Glass plates

## TLC Glass plates &gt; RS-For thin layer chromatography

RS

Code	Size	Packaging	Notes
MNL809017	cm5x10	50 pcs	Silica Gel 60 0.25 mm thick
MNL809027	cm5x10	50 pcs	Silica Gel 60 F254 0.25 mm thick
MNL809011	cm5x20	100 pcs	Silica Gel 60 0.25 mm thick
MNL809021	cm5x20	100 pcs	Silica Gel 60 F254 0.25 mm thick
MNL809020	cm10x10	25 pcs	Silica Gel 60 F254 0.25 mm thick
MNL811075	cm10x10	25 pcs	RP18 silica F254 0.25 mm thick
MNL811022	cm10x10	25 pcs	Silica 60/10 F254 0.2 mm thick
MNL809012	cm10x20	50 pcs	Silica Gel 60 0.25 mm thick
MNL809022	cm10x20	50 pcs	Silica Gel 60 F254 0.25 mm thick
MNL809013	cm20x20	25 pcs	Silica Gel 60 0.25 mm thick
MNL809023	cm20x20	25 pcs	Silica Gel 60 F254 0.25 mm thick
MNL811071	cm20x20	25 pcs	RP18 silica F254 0.25 mm thick
MNL811074	cm20x20	15 pcs	RP18 silica F254 1mm
MNL809051	cm20x20	20 pcs	Silica Gel 60 0.5 mm thick
MNL809061	cm20x20	15 pcs	Silica Gel 60 1mm
MNL809073	cm20x20	12 pcs	Silica Gel 60 0.2 mm thick
MNL809053	cm20x20	20 pcs	Silica Gel 60 F254 0.5 mm thick
MNL809063	cm20x20	15 pcs	Silica Gel 60 F254 1mm
MNL809083	cm20x20	12 pcs	Silica Gel 60 F254 0.2 mm thick
MNL807033	cm20x20	15 pcs	Alumina 60A F254 1mm

## TLC polyester sheets

## TLC polyester sheets &gt; RS-For thin layer chromatography

RS

Code	Size	Packaging	Notes
MNL805012	cm5x20	50 pcs	Silica Gel 60 0.25 mm thick
MNL805022	cm5x20	50 pcs	Silica Gel 60 F254 0.25 mm thick
MNL802022	cm5x20	50 pcs	Alumina 60A F254 0.2 mm thick
MNL805013	cm20x20	25 pcs	Silica Gel 60 0.25 mm thick
MNL805023	cm20x20	25 pcs	Silica Gel 60 F254 0.25 mm thick
MNL802023	cm20x20	25 pcs	Alumina 60A F254 0.2 mm thick

## o-Tolidine solution 0.1%

C<sub>14</sub>H<sub>16</sub>N<sub>2</sub>  
Molecular Weight 212,28  
CAS : 119-93-7

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

**Danger**

3.6/1B; H350-A26  
P281-P201-P202-P308+P313-P405-P501a

## o-Tolidine solution 0.1% &gt; RPE-For analysis

RPE

Description .....Clear colourless liquid Identification.....Positive

Code	Size	Packaging	Notes
488461	1l	Glass bottle	

For the determination of Au, Ce, Cl, halogen free, Mn.

Product specifications are subject to changes.  
Please visit our website for updates.

## o-Tolidine solution

C<sub>14</sub>H<sub>16</sub>N<sub>2</sub>  
CAS : 119-93-7

## o-Tolidine solution &gt; RS-For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611123001	500ml	Bottle	Ref Ph.Eur 1123001

## Toluene

C<sub>6</sub>H<sub>5</sub>CH<sub>3</sub>  
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

2.6/2; H225-3.10/1; H304-3.7/2; H361d-3.9/2; H373-3.2/2; H315-3.8/3; H336  
P210-P241-P304+P340-P403+P235-P405-P501a

## Toluene &gt; RS-For HPLC Isocratic

RS

Description	Clear colourless liquid	Acidity or alkalinity	<=0.0015 meq/g	At 285 nm	>= 10 %	At 330 nm	>=96 %
Identification	Positive	Water (K.F.)	<=100 ppm	At 290 nm	>=55 %	At 350 nm	>=99 %
Density at 20° C	0.865 - 0.869	Residue on evaporation	<=2 ppm	At 300 nm	>=80 %		
Refractive index at 20° C	1.4931 - 1.4991	Assay (GLC)	>=99.8 %	At 310 nm	>=90 %		
Boiling point	110.1 - 111.1 °C	<b>U.V. Transmittance</b>		At 320 nm	>=94 %		

Code	Size	Packaging	Notes
412641000	1l	Glass bottle	
412642000	2,5l	Glass bottle	

## Toluene &gt; RS-For HPLC preparative

RS

Description	Clear colourless liquid	Refractive index at 20° C	1.4931 - 1.4991	Residue on evaporation	<=5 ppm	<b>U.V. Transmittance</b>	
Identification	Positive	Boiling point	110.1 - 111.1 °C	Alcalinity	<=0.0002 meq/g	At 300 nm	>=75 %
Density at 20° C	0.865 - 0.869	Water (K.F.)	<=200 ppm	Assay (GLC)	>=99.8 %	At 350 nm	>=98 %

Code	Size	Packaging	Notes
488531	2,5l	Glass bottle	

## Toluene &gt; RS-ATRASOL- For trace analysis

RS

Refractive index at 20° C	1.494 - 1.498	Non volatile residue	<= 5 mg/Kg	<b>Retention time trichlorobenzene to mirex</b>	
Water content (K.F.)	<= 50 mg/Kg	Assay (GC)	>= 99.8 %	GC-FID. Individ. peak (hexadecane)	<= 5 µg/l
Colour	<= 10 Hazen	GC ( FID ) - NC Atrasol	Conform	<b>Retention time range over toluene</b>	
Free acid (as HCl)	<= 10 mg/Kg	GC-ECD. Individual peak (Lindane)	<= 2 ng/l		

Code	Size	Packaging	Notes
P0713221	2,5l	Glass bottle	

## Toluene &gt; RS-PESTIPUR- For pesticide analysis

RS

Description	Clear liquid	Water	<= 100 ppm	GC-ECD (Lindane)	<= 3 ng/l
Colour	<= 10 APHA	Acidity (HCl)	<= 10 ppm	GC-NPD (Ethylparation)	<= 3 ng/l
Identification	Positive	Not volatile residue	<= 5 ppm	Assay (GLC)	>= 99.8 %

Code	Size	Packaging	Notes
488591	1l	Glass bottle	
488592	2,5l	Glass bottle	

## Toluene &gt; RS-SPECTROSOL - For optical spectroscopy

RS

Description	Clear liquid	Boiling point	110.1 - 111.1 °C	<b>U.V. Transmittance</b>	
Colour	<=10 APHA	Acidity or alkalinity	<=0.0015 meq/g	At 285 nm	>=10 %
Identification	Positive	Water (K.F.)	<=100 ppm	At 290 nm	>=55 %
Density at 20° C	0.865 - 0.869	Residue on evaporation	<=5 ppm	At 300 nm	>=80 %
Refractive index at 20° C	1.4931 - 1.4991	Assay (GLC)	>=99.8 %	At 310 nm	>=90 %
				At 320 nm	>=93 %
				At 350 nm	>=98 %

Code	Size	Packaging	Notes
488602	2,5l	Glass bottle	



## ► Toluene &gt; RS-Anhydrous-For analysis

Refractive index at 20°C	1.494 - 1.498	Colour	<= 10 Hazen	Benzene	<= 200 mg/Kg
Water content (K.F.)	<= 50 mg/Kg	Assay (GC)	>= 99.8 %	Styrene	<= 10 mg/Kg
Non volatile residue	<= 10 mg/Kg	Free acid (as HCl)	<= 10 mg/Kg	Ethylbenzene + xylene	<= 500 mg/Kg

Code	Size	Packaging	Notes
P0711010	200ml	Bottle with sept	
P07110T10	200ml	Bottle with sept	On molecular sieves 4A
P0711016	1l	Glass bottle	
P0711021	2,5l	Glass bottle	

## ► Toluene &gt; RPE-For analysis-ISO-ACS-Reag.Ph.Eur.-Reag.USP

Description	Clear colourless liquid	Acidity (benzoic acid)	<=14 ppm	Al	<=0.5 ppm	Mg	<=0.1 ppm
Identification (I.R.)	Positive	Alkalinity (NH3)	<=2 ppm	B	<=0.01 ppm	Mn	<=0.01 ppm
Colour	<=10 APHA	Water (K.F.)	<=150 ppm	Ba	<=0.1 ppm	Ni	<=0.01 ppm
Density at 20° C	0.865 - 0.869	Residue on evaporation	<=10 ppm	Ca	<=0.5 ppm	Pb	<=0.01 ppm
Refractive index at 20°C	1.4931 - 1.4991	Ready carbonizable substances	Conform	Cd	<=0.01 ppm	Sn	<=0.1 ppm
Boiling point	110.1 - 111.1 °C	Benzene	<= 0.02 %	Co	<=0.01 ppm	Zn	<=0.01 ppm
Alcohol miscibility	Complete	Tiophene	<=1 ppm	Cr	<=0.01 ppm	Styrene	<= 10 ppm
Chloroform miscibility	Complete	Total sulphur	<=3 ppm	Cu	<=0.01 ppm	Ethyl benzene + xylene	<= 500 ppm
Diethyl ether miscib.	Complete	Assay (GLC)	>=99.8 %	Fe	<=0.05 ppm		

Code	Size	Packaging	Notes
488551	1l	Glass bottle	
488555	2,5l	Glass bottle	
488552	5l	Aluminium can	
488559	5l	Plastic tank	
488557	24kg	Metal tank	
488556	170kg	Metal drum	

## ► Toluene &gt; RE-Pure

Description	Clear colourless liquid	Boiling point	109.9 - 111.4 °C	Total sulphur	<=100 ppm
Identification	Positive	Residue on evaporation	<=50 ppm	Assay (GLC)	>=99.5 %
Density at 20° C	0.862 - 0.872	Water (K.F.)	<=300 ppm	Ethyl benzene + xylene	<= 750 ppm
Refractive index at 20°C	1.491 - 1.501	Benzene	<= 0.02 %		

Code	Size	Packaging	Notes
386002	1l	Glass bottle	
386001	2,5l	Glass bottle	
386003	23kg	Metal tank	
386009	170kg	Metal drum	

## ► Toluene &gt; RE-Pure-Low content in benzene

Description	Clear colourless liquid	Boiling point	109.9 - 111.4 °C	Total sulphur	<=100 ppm
Identification	Positive	Residue on evaporation	<=50 ppm	Assay (GLC)	>=99.5 %
Density at 20° C	0.862 - 0.872	Water (K.F.)	<= 300 ppm	Ethyl benzene + xylene	<= 750 ppm
Refractive index at 20°C	1.491 - 1.501	Benzene	<= 0.01 %		

Code	Size	Packaging	Notes
528231	5l	Plastic tank	
528233	25l	Metal tank	
528232	200l	Metal drum	

## Toluene in solution in hexan

## Classification transport

ONU: 1993  
 Transport Hazard class: 3  
 Packing group II



Danger

2.6/2; H225-3.7/2; H361f-3.9/2; H373-3.2/2; H315-3.8/3; H336-4.1.C/2; H411  
 P210-P241-P304+P340-P403+P235-P405-P501a

## ► Toluene in solution in hexan &gt; RS-For analysis according to Ph. Eur. Chap. 2.2.25

Code	Size	Packaging	Notes
506461	8x10ml	Glass ampoule	To check the resolution


Product specifications are subject to changes.  
 Please visit our website for updates.

# TOL

## Toluene-d8

C<sub>6</sub>D<sub>5</sub>CD<sub>3</sub>  
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**  
2.6/2; H225-3.10/1; H304-3.7/2; H361d-3.9/2; H373-3.2/2; H315-3.8/3; H336  
P210-P241-P304+P340-P403+P235-P405-P501a

### Toluene-d8 > RS-For NMR-min 99.5%

RS

Code	Size	Packaging	Notes
P5399A	2x0,75ml	Glass ampoule	
P5393A	5ml	Glass ampoule	
P5395	25ml	Glass bottle	

## p-Toluene sulfonamide

CH<sub>3</sub>C<sub>6</sub>H<sub>4</sub>SO<sub>2</sub>NH<sub>2</sub>  
Molecular Weight 171,22  
CAS : 70-55-3  
EEC-N : 200-741-1

### p-Toluene sulfonamide > RPE-For analysis

RPE


Description ..... White powder  
Identification ..... Positive  
Melting point ..... ~ 136 °C  
Chloride ..... <=50 ppm  
Heavy metals (Pb) ..... <=20 ppm  
Residue on ignition ..... <=200 ppm  
Sulphate ..... <=50 ppm  
Fe ..... <=10 ppm  
Assay (ex nitrogen) ..... >=99 %

Code	Size	Packaging	Notes
488661	100g	Plastic bottle	

## p-Toluenesulfonic acid

CH<sub>3</sub>C<sub>6</sub>H<sub>4</sub>SO<sub>3</sub>H.H<sub>2</sub>O  
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**  
3.1.0/4; H302-3.2/2; H315-3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

### p-Toluenesulfonic acid > RPE-For analysis

RPE

Description ..... White crystals  
Identification ..... Positive  
Melting point ..... 102 - 105 °C  
Water (K.F) ..... <=13 %  
Acidity(Sulphuric acid) ..... <=0.3 %  
Fe ..... <=50 ppm  
Assay (oxidimetric) ..... >=98.5 %

Code	Size	Packaging	Notes
411436	500g	Plastic bottle	
411432	20kg	Fibre drum	

### p-Toluenesulfonic acid > RE-Pure


RE

Description ..... White crystals  
Identification ..... Positive  
Chloride ..... <=500 ppm  
Water-insoluble matter ..... <=0.1 %  
Heavy metals (Pb) ..... <=100 ppm  
Residue on ignition ..... <=0.5 %  
Sulphate ..... <=2 %  
Fe ..... <=100 ppm  
Assay (acidimetric) ..... >=97 %

Code	Size	Packaging	Notes
307508	10kg	Bag	

## p-Toluenesulfonic acid sodium salt

CH<sub>3</sub>C<sub>6</sub>H<sub>4</sub>SO<sub>3</sub>Na  
Molecular Weight 194,19  
CAS : 657-84-1  
EEC-N : 211-522-5

 **Warning**  
3.2/2; H315-3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

### p-Toluenesulfonic acid sodium salt > RPE-For analysis

RPE

Description ..... White crystals  
Identification ..... Positive  
Assay ..... >= 97.5 %

Code	Size	Packaging	Notes
411504	100g	Glass bottle	

## p-Toluenesulfonylchloride

CH<sub>3</sub>C<sub>6</sub>H<sub>4</sub>SO<sub>2</sub>Cl  
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**

3.2/1B; H314  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

### p-Toluenesulfonylchloride > RPE-For analysis

**RPE**

Description .....White crystalline powder    Melting point .....69.0 - 71.0 ° C    Assay (acidimetric) .....99 - 100 %  
Identification.....Positive    Residue on ignition .....<=500 ppm

Code	Size	Packaging	Notes
488671	100g	Glass bottle	
488672	1kg	Plastic bottle	

## p-Toluidine

CH<sub>3</sub>C<sub>6</sub>H<sub>4</sub>NH<sub>2</sub>  
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**

3.1.0/3; H301-3.1.D/3; H311-3.1.I/3; H331-3.6/2; H351-4.1.A/1; H400-3.3/2; H319-3.4.S/1; H317  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

### p-Toluidine > RE-Pure

**RE**

Description .....Yellow semitransparent crystals    Total chlorine.....<=50 ppm    p-Nitrotoluene .....<=10 ppm  
Identification.....Positive    Heavy metals (Pb).....<=5 ppm    Fe.....<=5 ppm  
Hydrocarbons.....Conform    Residue on ignition .....<=50 ppm    Assay (GLC).....99 - 100 %  
Melting point .....42.0 - 45.0 ° C    Total sulphur .....<=10 ppm  
Water (K.F.).....<=0.5 %    o-Toluidine .....<=300 ppm

Code	Size	Packaging	Notes
488804	100g	Glass bottle	

## Toluidine blue

C<sub>15</sub>H<sub>16</sub>ClN<sub>3</sub>S  
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	25g	Glass bottle	

*Dye for cytology-histochemistry*

## Total-ionic-strength-adjustment buffer

**Classification transport**  
ONU: 1993  
Transport Hazard class: 3  
Packing group III



**Danger**

3.2/1A; H314-2.6/3; H226  
P210-P241-P304+P340-P305+P351+P338-P403+P235-P405-P501a

### Total-ionic-strength-adjustment buffer > RS-For analysis according to Ph. Eur. Chap. 4.1.3

**RS**

Code	Size	Packaging	Notes
614007700	1l	Bottle	Ref Ph.Eur 4007700

## Triacetin

Synonyms : 1,2,3-Triacetoxypropane  
Glyceryl triacetate

CH3COOCH2CH(OOCCH3)CH2OOCCH3  
Molecular Weight 218,21  
CAS : 102-76-1  
EEC-N : 203-051-9

### Triacetin > RPE-For analysis

RPE

Description .....Clear colourless liquid      Acidity (acetic acid) .....<=100 ppm      Assay (GLC) .....>=99.0 %  
Identification .....Positive      Water .....<=0.1 %

Code	Size	Packaging	Notes
489152	1l	Glass bottle	

## Tributylphosphate

(C4H9O)3PO  
Molecular Weight 266,32  
CAS : 126-73-8  
EEC-N : 204-800-2



Warning

3.6/2; H351-3.1.O/4; H302-3.2/2; H315  
P280-P308+P313-P330-P332+P313-P405-P501a

### Tributylphosphate > RPE-For analysis

RPE

Description .....Clear liquid      Refractive index at 20°C .....1.4230 - 1.4250      Butan-1-ol .....<= 0.1 %  
Identification .....Positive      Colour .....<= 50 APHA      Water (K.F.) .....<= 0.2 %  
Density at 20° C .....0.975 - 0.980      Acid value .....<= 0.05      Assay (GLC) .....>= 99.0 %

Code	Size	Packaging	Notes
432054	500ml	Glass bottle	

## Trichloroacetic acid

CCl3COOH  
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

3.2/1A; H314-4.1.A/1; H400-4.1.C/1; H410  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

### Trichloroacetic acid > RPE-For analysis-ACS-Reag.Ph.Eur.-Reag.USP

RPE

Description .....Colourless crystals      Chloride .....<= 20 ppm      Heavy metals (Pb) .....<= 20 ppm  
Identification .....Positive      Phosphate .....<= 5 ppm      Fe .....<= 10 ppm  
Ready carbonizable substances .....Conform      Nitrate .....<= 20 ppm      Assay (acidimetric) .....>= 99.0 %  
Residue on ignition .....<= 0.03 %      Sulphate .....<= 0.02 %

Code	Size	Packaging	Notes
411524	100g	Glass bottle	
411525	250g	Plastic bottle	
411527	1kg	Plastic bottle	

### Trichloroacetic acid > RE-Pure

RE

Description .....Colourless crystals      Water .....<= 0.3 %      Assay (acidimetric) .....>= 98.5 %  
Identification .....Positive      Fe .....<= 10 ppm

Code	Size	Packaging	Notes
307557	1kg	Plastic bottle	

## Trichloroacetic acid solution 20%

Classification transport

ONU: 2564  
Transport Hazard class: 8  
Packing group II



Danger

3.2/1A; H314-3.8/3; H335-4.1.C/2; H411  
P260-P261-P304+P340-P305+P351+P338-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	1l	Glass bottle	

For the determination of iron in the blood according Heimayer. For protein precipitation. Content is guaranteed for standardized volumes at 20°C. Keep tightly closed.

## Trichloroacetic acid solution 3% in dichloromethane

## Trichloroacetic acid solution 3% in dichloromethane &gt; RPE-For analysis

RPE


Water content (K.F.).....&lt;= 100 mg/Kg

Code	Size	Packaging	Notes
P0553574W	500ml	Glass bottle	
P0553521	2,5l	Glass bottle	

## 1,2,4-Trichlorobenzene

C<sub>6</sub>H<sub>3</sub>Cl<sub>3</sub>  
 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**  
 4.1.A/1; H400-4.1.C/1; H410-3.1.O/4; H302-3.2/2; H315  
 P280-P330-P332+P313-P362-P301+P312-P501a

## 1,2,4-Trichlorobenzene &gt; RPE-For analysis

RPE


Description .....Clear colourless liquid    Refractive index at 20°C .....1.5687 - 1.5747    Water (K.F.).....<=0.1 %  
 Identification.....Positive    Boiling point .....212.5 - 213.5 ° C    Residue on ignition .....<=10 ppm  
 Density at 20° C.....1.451 - 1.457    Melting point .....16.0 - 18.0 ° C    Assay (GLC).....>=98.5 %

Code	Size	Packaging	Notes
489382	1l	Glass bottle	

Should be stored at not less than 20°C.

## 2,2,2-Trichloroethanol

Cl<sub>3</sub>CCH<sub>2</sub>OH  
 Molecular Weight 149,4  
 CAS : 115-20-8  
 EEC-N : 204-071-0

 **Warning**  
 3.1.O/4; H302  
 P264-P270-P330-P301+P312-P501a

## 2,2,2-Trichloroethanol &gt; RPE-For analysis

RPE


Description .....Clear colourless liquid    Refractive index at 20°C .....1.4885 - 1.4905  
 Identification.....Positive    Assay (GLC).....>=98.5 %

Code	Size	Packaging	Notes
415271	100ml	Glass bottle	

## Tricresol

HOC<sub>6</sub>H<sub>4</sub>CH<sub>3</sub>  
 Molecular Weight 108,14  
 CAS : 1319-77-3  
 EEC-N : 215-293-2

**Classification transport**  
 ONU: 2022  
 Transport Hazard class: 6.1  
 Packing group II

 **Danger**  
 3.1.O/3; H301-3.1.D/3; H311-3.2/1B; H314  
 P260-P280-P304+P340-P305+P351+P338-P405-P501a

## Tricresol &gt; RE-Pure

RE

Description .....Brown clear liquid    Identification.....Positive    Density at 25° C.....>=1.035

Code	Size	Packaging	Notes
386202	1l	Glass bottle	

Mixture of isomers.

Product specifications are subject to changes.  
 Please visit our website for updates.

## Triethanolamine

Synonyms : *Tris(2-hydroxyethyl)amine*  
2,22,22 2 -Nitrilotriethanol

(CH<sub>2</sub>OHCH<sub>2</sub>)<sub>3</sub>N  
Molecular Weight 149,19  
CAS : 102-71-6  
EEC-N : 203-049-8



**Warning**  
3.3/2; H319  
P280-P264-P305+P351+P338-P337+P313

### 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-aqueous medium) ..... >=98 %

Code	Size	Packaging	Notes
489504	1l	Glass bottle	
489501	30kg	Metal tank	

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	1l	Glass bottle	
386303	2,5l	Glass bottle	
386304	30kg	Metal tank	
386305	220Kg	Metal drum	

Keep in a dark place

## Triethylamine

(C<sub>2</sub>H<sub>5</sub>)<sub>3</sub>N  
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**

2.6/2; H225-3.2/1A; H314-3.1.0/4; H302-3.1.D/4; H312-3.1.I/4; H332  
P210-P241-P304+P340-P305+P351+P338-P403+P235-P405-P501a

### Triethylamine > RS-For HPLC Isocratic

**RS**

Clear, colourless liquid ..... Conform  
Water content (K.F.) ..... <= 0.05 % (m/m)  
Residue on evaporation ..... <= 0.001 % (m/m)  
Assay (GC) ..... >= 99.7 %  
U.V. Transmittance .....  
At 250nm (0.1M) ..... >= 10 %  
At 254nm (0.1M) ..... >= 75 %

Code	Size	Packaging	Notes
489631	1l	Glass bottle	
489633	2,5l	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	1l	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	1l	Glass bottle	
386603	5l	Plastic tank	
386602	20kg	Plastic tank	

## Triethylene glycol

(CH<sub>2</sub>OHCH<sub>2</sub>OCH<sub>2</sub>)<sub>2</sub>  
 Molecular Weight 150,18  
 CAS : 112-27-6  
 EEC-N : 203-953-2



Warning

3.2/2; H315-3.3/2; H319-3.8/3; H335  
 P261-P271-P304+P340-P305+P351+P338-P405-P501a

## Triethylene glycol &gt; 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 (H<sub>2</sub>O<sub>2</sub>).....<= 50 ppm Assay (GLC).....>= 98 %  
 Alcohol miscibility .....Complete Acidity (acetic acid) .....<= 60 ppm Residue on ignition.....<= 30 ppm

Code	Size	Packaging	Notes
454111	1l	Glass bottle	
454112	30kg	Plastic tank	

## Trifluoroacetic acid

CF<sub>3</sub>COOH  
 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

3.2/1A; H314-3.1.1/4; H332-4.1.C/3; H412  
 P260-P261-P304+P340-P305+P351+P338-P405-P501a

## Trifluoroacetic acid &gt; RS-For LC/MS

RS

Description .....Clear liquid UV Absorbance At 320 nm .....<= 0.03 AU  
 Colour .....<= 10 Hazen At 260 nm .....<= 1 AU Assay (GC) .....>= 99 %  
 Chloride (Cl-) .....<= 20 mg/Kg At 270 nm .....<= 0.1 AU Residue on evaporation .....<= 0.005 % m/m  
 Sulphate (SO<sub>4</sub>-) .....<= 20 mg/Kg At 280 nm .....<= 0.05 AU **Test LC-MS TIC (50-2000m/z) ESI (+)**  
 Fluoride .....<= 50 mg/Kg At 290 nm .....<= 0.04 AU Sensitive Impurities (reserpine) .....<= 100 ppb  
 Water content (K.F.) .....<= 0.05 % m/m At 300 nm .....<= 0.03 AU

Code	Size	Packaging	Notes
411541	10x1ml	Glass ampoule	
411542	10x2,5ml	Glass ampoule	
411543	50ml	Plastic bottle	

Eluent phase additive for LC-MS

## Trifluoroacetic acid &gt; RS-SPECTROSOL - For optical spectroscopy

RS

Appearance .....Clear colourless liquid UV Absorbance At 290 nm .....<= 0.04 AU Assay (GC) .....>= 99 %  
 Identification (IR) .....Conform At 260 nm .....<= 1 AU At 300 nm .....<= 0.03 AU Residue on evaporation .....<= 0.002 % m/m  
 Density d<sub>20</sub>/4 .....1.480 - 1.500 At 270 nm .....<= 0.1 AU At 320 nm .....<= 0.03 AU  
 Water content (K.F.) .....<= 0.05 % m/m At 280 nm .....<= 0.05 AU Content (Acidimetry) .....99.9 - 101.0 % m/m

Code	Size	Packaging	Notes
P0082746	1l	Glass bottle PVC coated	
P0082747	2,5l	Glass bottle PVC coated	

## Trifluoroacetic acid &gt; RS-For peptide synthesis

RS

Identification (IR) .....Conform Water content (K.F.) .....<= 500 mg/Kg Sulphate (SO<sub>4</sub>-) .....<= 20 mg/Kg  
 Density d<sub>20</sub>/4 .....1.480 - 1.500 Content (Acidimetry) .....>= 99.9 % m/m Fluoride .....<= 50 mg/Kg  
 Colour .....<= 10 Hazen Chloride (Cl-) .....<= 20 mg/Kg

Code	Size	Packaging	Notes
P0082103	100ml	Glass bottle	
P0082147	2,5l	Glass bottle PVC coated	
P0082112	1kg	Glass bottle PVC coated	

## Trifluoroacetic acid &gt; 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	100ml	Glass bottle	
411564	250ml	Glass bottle	

Product specifications are subject to changes.  
 Please visit our website for updates.

## Trifluoroacetic acid > RE-Pure-For synthesis

**RE**

Identification (IR) ..... Conform      Water content (K.F.) ..... <= 1000 mg/Kg      Sulphate (SO<sub>4</sub><sup>-</sup>) ..... <= 20 mg/Kg  
 Density d20/4 ..... 1.480 - 1.500      Content (Acidimetry) ..... >= 99 % m/m      Fluoride ..... <= 50 mg/Kg  
 Colour ..... <= 10 Hazen      Chloride (Cl<sup>-</sup>) ..... <= 20 mg/Kg

Code	Size	Packaging	Notes
P0080247	2,5l	Glass bottle PVC coated	
P0080212	1kg	Glass bottle PVC coated	
P0080297	30kg	Drum	

## Trifluoroacetic acid-d

CF<sub>3</sub>COOD  
 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**

3.2/1A; H314-3.1.1/4; H332-4.1.C/3; H412  
 P260-P261-P304+P340-P305+P351+P338-P405-P501a

## Trifluoroacetic acid-d > RS-For NMR-min 99.5%

**RS**

Code	Size	Packaging	Notes
P5419A	2x0,75ml	Glass ampoule	
P5413A	5ml	Glass ampoule	

## Trifluoroacetic anhydride

(CF<sub>3</sub>CO)<sub>2</sub>O  
 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**

3.1.O/3; H301-3.2/1A; H314  
 P260-P280-P304+P340-P305+P351+P338-P405-P501a

## Trifluoroacetic anhydride > RPE-For analysis

**RPE**

Description ..... Clear colourless liquid      Density at 20° C ..... 1.511 - 1.515      Assay (as anhydride) ..... >=98 %  
 Identification ..... Positive      Residue on evaporation ..... <=10 ppm

Code	Size	Packaging	Notes
422225	500ml	Glass bottle	

For derivatization.

## 1,1,1-Trifluoroacetyltrifluoroacetone

C<sub>5</sub>H<sub>2</sub>F<sub>6</sub>O<sub>2</sub>  
 Molecular Weight 208,06  
 CAS : 1522-22-1  
 EEC-N : 216-191-0


**Danger**

3.2/1B; H314-2.6/3; H226  
 P210-P241-P304+P340-P305+P351+P338-P403+P235-P405-P501a

## 1,1,1-Trifluoroacetyltrifluoroacetone > RPE-For analysis

**RPE**

Description ..... Clear colourless liquid      Identification ..... Positive      Assay (GLC) ..... 98 - 100 %

Code	Size	Packaging	Notes
490162	10ml	Glass bottle	

## Trifluoroethanol-d<sub>2</sub>

CF<sub>3</sub>CD<sub>2</sub>OD

## Trifluoroethanol-d<sub>2</sub> > RS-For NMR-min 99%

**RS**

Code	Size	Packaging	Notes
P5449A	2x0,75ml	Glass ampoule	



## Trimethylamine hydrochloride

(CH<sub>3</sub>)<sub>3</sub>N.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-aqueous medium).....>= 98 %


Code	Size	Packaging	Notes
489803	50g	Glass bottle	

## Trimethylcetylammmonium bromide

Synonyms : Hexadecyltrimethylammmonium bromide  
Cetyltrimethylammmonium bromide

CH<sub>3</sub>(CH<sub>2</sub>)<sub>15</sub>N(CH<sub>3</sub>)<sub>3</sub>Br  
Molecular Weight 364,46  
CAS : 57-09-0  
EEC-N : 200-311-3

**Classification transport**  
ONU: 3077  
Transport Hazard class: 9  
Packing group III

 **Warning**  
4.1.A/1; H400-3.1.O/4; H302-3.2/2; H315-3.3/2; H319  
P280-P305+P351+P338-P330-P332+P313-P337+P313-P501a

### Trimethylcetylammmonium bromide > RPE-For analysis


RPE

Description.....White crystalline powder Identification.....Positive Assay (non-aqueous medium).....>= 99.0 %

Code	Size	Packaging	Notes
489833	50g	Plastic bottle	
489831	500g	Plastic bottle	

## Trimethylcetylammmonium p-toluenesulfonate

CH<sub>3</sub>C<sub>6</sub>H<sub>4</sub>SO<sub>3</sub>N(CH<sub>3</sub>)<sub>3</sub>(CH<sub>2</sub>)<sub>15</sub>CH<sub>3</sub>  
Molecular Weight 455,74  
CAS : 138-32-9  
EEC-N : 205-324-8

 **Warning**  
3.1.O/4; H302-3.1.D/4; H312-3.1.I/4; H332-3.2/2; H315-3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

### Trimethylcetylammmonium p-toluenesulfonate > RE-Pure

RE

Description.....White powder Soluz. in Water (1:200).....Complete Assay.....>= 99.0 %  
Identification.....Positive pH sol. 1%.....5.0 - 8.0

Code	Size	Packaging	Notes
387205	250g	Plastic bottle	
387207	1kg	Plastic bottle	
387203	25kg	Fibre drum	

## 2,2,4-Trimethylpentane ▶ Isooctane

## n-Trimethylsilylacetamide

CH<sub>3</sub>CONHSi(CH<sub>3</sub>)<sub>3</sub>  
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**  
2.7/1; 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	25g	Glass bottle	

For derivatization.

## 3-Trimethylsilylpropionic acid sodium salt

(CH<sub>3</sub>)<sub>3</sub>SiCD<sub>2</sub>CD<sub>2</sub>CO<sub>2</sub>Na  
 Molecular Weight 172,27  
 CAS : 24493-21-8  
 EEC-N : 246-286-2

**Classification transport**  
 ONU: 2810  
 Transport Hazard class: 6.1  
 Packing group I

### 3-Trimethylsilylpropionic acid sodium salt > RS-For NMR

RS

Code	Size	Packaging	Notes
P5462	1g	Glass bottle	

## Trioctylphosphine oxide

(C<sub>8</sub>H<sub>17</sub>)<sub>3</sub>PO  
 Molecular Weight 386,65  
 CAS : 78-50-2  
 EEC-N : 201-121-3



**Warning**

3.2/2; H315-3.3/2; H319  
 P280-P264-P305+P351+P338-P332+P313-P337+P313-P362

### Trioctylphosphine oxide > RPE-For analysis

RPE

Description.....White crystals Melting point .....52 - 57 °C  
 Identification.....Positive Assay (GLC).....>= 98.5 %

Code	Size	Packaging	Notes
489581	50g	Glass bottle	

## Triphenylphosphine

(C<sub>6</sub>H<sub>5</sub>)<sub>3</sub>P  
 Molecular Weight 262,3  
 CAS : 603-35-0  
 EEC-N : 210-036-0

**Classification transport**  
 ONU: 3464  
 Transport Hazard class: 6.1  
 Packing group III



**Warning**

4.1.A/1; H400-4.1.C/1; H410-3.1.O/4; H302-3.4.S/1; H317  
 P261-P280-P330-P363-P301+P312-P501a

### Triphenylphosphine > RPE-For analysis

RPE

Description.....White powder Melting point .....80.0 - 82.0 ° C  
 Identification.....Positive Assay (GLC).....>=98 %

Code	Size	Packaging	Notes
489591	100g	Plastic bottle	

## 2,3,5-Triphenyltetrazolium chloride

(C<sub>6</sub>H<sub>5</sub>)<sub>3</sub>CN<sub>4</sub>Cl  
 Molecular Weight 334,81  
 CAS : 298-96-4  
 EEC-N : 206-071-6



**Warning**

3.2/2; H315-3.3/2; H319-3.8/3; H335  
 P261-P271-P304+P340-P305+P351+P338-P405-P501a

### 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-aqueous medium).....99 - 100 % s s

Code	Size	Packaging	Notes
489651	10g	Glass bottle	

## 2,4,6-Tri-(2-pyridyl)-s-triazine

N:C(C<sub>5</sub>H<sub>4</sub>N)N:C(C<sub>5</sub>H<sub>4</sub>N)N:C(C<sub>5</sub>H<sub>4</sub>N)  
 Molecular Weight 312,33  
 CAS : 3682-35-7  
 EEC-N : 222-965-9

## 2,4,6-Tri-(2-pyridyl)-s-triazine &gt; 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	1g	Glass bottle	

For the spectrophotometric determination of Iron.

## TRIS hydrochloride

NH<sub>2</sub>C(CH<sub>2</sub>OH)<sub>3</sub>.HCl  
 Molecular Weight 157,6  
 CAS : 1185-53-1  
 EEC-N : 214-684-5



Warning

3.2/2; H315-3.3/2; H319-3.8/3; H335  
 P261-P271-P304+P340-P305+P351+P338-P405-P501a

## TRIS hydrochloride &gt; RPE-For analysis

RPE

Description ..... White crystals      pH (0.5M 25° C) ..... 3.5 - 5.0      Mg ..... <= 5 ppm  
 Identification ..... Positive      Pb ..... <= 5 ppm      Mn ..... <= 1 ppm  
 Solubility (1M 20° C) ..... Clear and colorless      As ..... <= 1 ppm      Assay ..... 99.0 - 101.0 %  
 Not soluble matter ..... <= 0.005 %      Ba ..... <= 1 ppm      Absorbance (1M water 260 nm) ..... 0.06  
 Residue on ignition ..... <= 0.1 %      Ca ..... <= 5 ppm      Absorbance (1M water 280 nm) ..... 0.05  
 Loss on drying ..... <= 0.5 %      Cu ..... <= 1 ppm  
 Melting point ..... 151 ± 2.0 ° C      Fe ..... <= 5 ppm

Code	Size	Packaging	Notes
479913	1kg	Plastic bottle	

## Tris (hydroxymethyl)-aminomethane

C<sub>4</sub>H<sub>11</sub>NO<sub>3</sub>  
 Molecular Weight 121,14  
 CAS : 77-86-1  
 EEC-N : 201-064-4



Warning

3.2/2; H315-3.3/2; H319  
 P280-P264-P305+P351+P338-P332+P313-P337+P313-P362

## Tris (hydroxymethyl)-aminomethane &gt; RS-For pHmetry

RS

Description ..... White crystalline powder      Melting point ..... >=168.5 ° C      Absorbance ..... <=0.2  
 Identification ..... Positive      Water (K.F.) ..... <=0.5 %      Assay (alkalimetric) ..... >=99.3 % s.s.  
 pH solution 5% ..... 10.0 - 11.5      Residue on ignition ..... <=0.1 %  
 Solution colour ..... <=25 APHA      Heavy metals (Pb) ..... <=5 ppm

Code	Size	Packaging	Notes
489973	1kg	Plastic bottle	
489971	25kg	Plastic bucket	

## Tris (hydroxymethyl)-aminomethane &gt; RS-For volumetry

RS

Description ..... White crystalline powder      Identification ..... Positive      Assay ..... >=99.5 %

Code	Size	Packaging	Notes
489992	10g	Glass bottle	

Product specifications are subject to changes.  
 Please visit our website for updates.

## ▶ Tris (hydroxymethyl)-aminomethane > RPE-For analysis

RPE

Description .....White crystalline powder  
 Identification.....Positive  
 Melting point.....168 - 170 °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 .....<=100 ppm  
 Cu.....<=1 ppm  
 Fe.....<=1 ppm  
 Assay (alkalimetric).....>=99.5 %

Code	Size	Packaging	Notes
489981	100g	Plastic bottle	
489984	500g	Plastic bottle	
489983	1kg	Plastic bottle	
489985	25kg	Plastic bucket	

## ▶ Tris (hydroxymethyl)-aminomethane > ERBAPharm-According to pharmacopoeia: USP

ERBAPharm

Description .....White crystalline powder  
 Identification.....Positive  
 pH solution 5% .....10.0 - 11.5  
 Melting point .....168 - 172 °C  
 Loss on drying .....<= 1.0 %  
 Residue on ignition .....<= 0.1 %  
 Heavy metals (Pb) .....<= 10 ppm  
 Assay (alkalimeter) .....99.0 - 101.0 % (s.s.)

Code	Size	Packaging	Notes
313441	25kg	Plastic bucket	

## ▶ Tris (hydroxymethyl)-aminomethane > RE-Pure

RE

Description .....White crystalline powder  
 Identification.....Positive  
 Melting point .....168 - 170 °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 .....<=200 ppm  
 Fe.....<=2 ppm  
 Assay (alkalimetric) .....>=99 %

Code	Size	Packaging	Notes
313432	1kg	Plastic bottle	
313431	25kg	Plastic bucket	

## ▶ Tris(hydroxymethyl)aminomethane solution

### ▶ Tris(hydroxymethyl)aminomethane solution > RS-For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611094201	100ml	Bottle	Ref Ph.Eur 1094201

## ▶ Tris(hydroxymethyl)aminomethane buffer solution 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	1l	Bottle	Ref Ph.Eur 4006200

## ▶ Tris(hydroxymethyl)aminomethane-EDTA buffer solution pH 8.4

### ▶ 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	1l	Bottle	Ref Ph.Eur 4006600

## Tris(hydroxymethyl)aminomethane sodium chloride buffer solution 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	1l	Bottle	Ref Ph.Eur 4004900

## Triton X100 solution

4-(C<sub>8</sub>H<sub>17</sub>)C<sub>6</sub>H<sub>4</sub>(OCH<sub>2</sub>CH<sub>2</sub>)nOH  
CAS : 9002-93-1

**Classification transport**  
ONU: 1935

 **Danger**

3.3/1; H318-3.1.0/4; H302-4.1.C/3; H412  
P280-P273-P305+P351+P338-P330-P301+P312-P501a

▶ **Triton X100 solution > RE-Pure-For synthesis**

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  
Colour .....Colourless to pale yellow

Code	Size	Packaging	Notes
P0120041	10l	Plastic tank	

## Tropaeolin O

Synonyms : *Resorcinol yellow*  
*Acid Orange 6*

C<sub>12</sub>H<sub>9</sub>N<sub>2</sub>NaO<sub>5</sub>S  
Molecular Weight 316,27  
CAS : 547-57-9  
EEC-N : 208-924-8

 **Warning**

3.2/2; H315-3.3/2; H319  
P280-P264-P305+P351+P338-P332+P313-P337+P313-P362

▶ **Tropaeolin O > RPE-For analysis-C.I. 14270**

RPE

Description .....Orange brown powder  
Identification .....Positive  
Loss on drying .....<=15 %  
Colour change .....Yellow - orange  
pH range .....11.1 - 12.7

Code	Size	Packaging	Notes
490001	10g	Glass bottle	

*Michaelis indicator series.*

## Tropaeolin O solution 0.1%

C<sub>12</sub>H<sub>9</sub>N<sub>2</sub>NaO<sub>5</sub>S  
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 .....Yellow - orange  
pH range .....11.1 - 12.7

Code	Size	Packaging	Notes
E490056	500ml	Glass bottle	

*Michaelis indicator series.*

# TUB

## Tubes 10 mm

### Tubes 10 mm > RS-For NMR

RS

Code	Size	Packaging	Notes
P588100	5pc	Box	Type 10P (Precision) Length 178 mm
P588100UP	5pc	Box	Type10UP (Ultra Precision) Length 178 mm

## Tubes 5 mm

### Tubes 5 mm > RS-For NMR

RS

Code	Size	Packaging	Notes
P588500	5pc	Box	Type 5P (Precision) Length 228.5 mm
P588500HP	5pc	Box	Type 5HP (High Precision) Length 178 mm
P588500UP	5pc	Box	Type 5UP (Ultra Precision) Length 178 mm
P588501HP	5pc	Box	Type 5HP (High Precision) Length 203 mm
P588502HP	5pc	Box	Type 5HP (High Precision) Length 228.5 mm
P588505	5pc	Box	Amber Type 5P (Precision) Length 178 mm
P588500TT	50pc	Box	Type 5TA (Routine) Length 178 mm

## Tungsten standard solution

### Tungsten standard solution > RS-Standard for ICP-MS

RS

Code	Size	Packaging	Notes
505931	50ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrofluoric acid and nitric acid
505932	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrofluoric acid and nitric acid
505935	100ml	Plastic bottle	conc. 100 ppm Matrix : Hydrofluoric acid and nitric acid

### Tungsten standard solution > RS-Standard for ICP

RS

Code	Size	Packaging	Notes
504051	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Sodium hydroxide
504055	100ml	Plastic bottle	conc. 10.000 ppm Matrix : Sodium hydroxide
504058	100ml	Plastic bottle	
504053	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Sodium hydroxide
504057	500ml	Plastic bottle	conc. 10.000 ppm Matrix : Sodium hydroxide

## Tungsten(VI) oxide

WO<sub>3</sub>  
Molecular Weight 231,85  
CAS : 1314-35-8  
EEC-N : 215-231-4



**Warning**

3.1.O/4; H302  
P264-P270-P330-P301+P312-P501a

### Tungsten(VI) oxide > RS-For microanalysis

RS

Description .....Yellow powder Identification.....Positive Assay (gravimetric) .....>=99 %

Code	Size	Packaging	Notes
422241	100g	Glass bottle	

## Tungstic acid

H<sub>2</sub>WO<sub>4</sub>  
Molecular Weight 249,86  
CAS : 7783-03-1  
EEC-N : 231-975-2

### Tungstic acid > RPE-For analysis

RPE

Description .....Yellow-greenish powder Assay (WO<sub>3</sub>) .....>= 92.0 % t.q. Cu .....<= 5 ppm Ti .....<= 10 ppm  
Identification .....Positive Assay (WO<sub>3</sub>) .....>= 99.95 % dopo calc. Mo .....<= 50 ppm  
Loss on ignition .....6 - 8 % Al .....<= 10 ppm Na .....<= 30 ppm  
Fe .....<= 20 ppm As .....<= 10 ppm Si .....<= 30 ppm

Code	Size	Packaging	Notes
411628	250g	Plastic bottle	
411621	1kg	Plastic bottle	

## Turk's reagent

## Turk's reagent &gt; RS-For microscopy

RS

Description .....Purple liquid Identification.....Positive

Code	Size	Packaging	Notes
E490451	500ml	Glass bottle	

Dye for hematology. For the WBC.

## L(-)Tyrosine

4-HOC<sub>6</sub>H<sub>4</sub>CH<sub>2</sub>CHNH<sub>2</sub>COOH  
 Molecular Weight 181,19  
 CAS : 60-18-4  
 EEC-N : 200-460-4

## L(-)Tyrosine &gt; RPE-For analysis

RPE

Description .....White or yellowish powder Ammonium .....<=300 ppm Residue on ignition .....<=500 ppm  
 Identification.....Positive Chloride .....<=300 ppm Total sulphur .....<=250 ppm  
 Specific optical rotation(C=4 in HCl N/1).....-9.6 - -11.6 ° Total phosphorus .....<=10 ppm Fe.....<=10 ppm  
 Loss on drying .....<=0.2 % Heavy metals (Pb) .....<=10 ppm Assay (non-aqueous medium) .....>=99 %

Code	Size	Packaging	Notes
488152	25g	Glass bottle	

## ULTRAPURE range, for trace metal analysis at ppt level

Acetic acid glacial .....2 Hydrofluoric acid 50% .....250 Sulfuric acid 93-98% .....528  
 Ammonia solution 20% .....31 Hydrogen peroxide solution 30% .....254 Water .....574  
 Hydrochloric acid 32-35% .....241 Nitric acid 67-69% .....354

## Uranium standard solution

## Uranium standard solution &gt; RS-Standard for ICP-MS

RS

Code	Size	Packaging	Notes
505921	50ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505922	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505923	100ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid

## Uranium standard solution &gt; RS-Standard for ICP

RS

Code	Size	Packaging	Notes
504031	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
504035	100ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
504033	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
504037	500ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

## Urea

(NH<sub>2</sub>)<sub>2</sub>CO  
 Molecular Weight 60,06  
 CAS : 57-13-6  
 EEC-N : 200-315-5



Warning

3.2/2; H315  
 P280-P264-P332+P313-P362-P302+P352

## Urea &gt; RPE-For analysis-ACS

RPE

Description .....White crystalline powder Sulphate .....<= 10 ppm Fe.....<= 10 ppm  
 Identification.....Positive Water-insoluble matter .....<= 100 ppm Assay (non-aqueous medium) .....99.0 - 100.5 %  
 Melting point .....132 - 135 °C Heavy metals (Pb) .....<= 10 ppm  
 Chloride .....<= 5 ppm Residue on ignition .....<= 100 ppm

Code	Size	Packaging	Notes
490758	500g	Plastic bottle	
490751	25kg	Bag	

Product specifications are subject to changes.  
 Please visit our website for updates.

# URE

## ► Urea > RE-Pure

**RE**


Description .....White granules Melting point .....130 - 135 °C Water-insoluble matter .....<=200 ppm  
Identification.....Positive Ammoniacal salts.....<=0.2 % Fe.....<=20 ppm

Code	Size	Packaging	Notes
387807	1kg	Plastic bottle	
387809	5kg	Plastic bottle	
387801	50kg	Drum	

## n-Valeric acid

CH<sub>3</sub>(CH<sub>2</sub>)<sub>3</sub>COOH  
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**  
3.2/1B; H314-4.1.C/3; H412  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

## ► n-Valeric acid > RPE-For analysis

**RPE**

Description .....Clear colourless,very slightly yellow liq. Refractive index at 20°C .....1.4036 - 1.4136 Assay (GLC).....>= 98.5 %  
Identification.....Positive Water .....<= 0.1 %

Code	Size	Packaging	Notes
411775	500ml	Glass bottle	

## Vanadium standard solution

### ► Vanadium standard solution > RS-For analysis according to Ph. Eur. Chap. 4.1.2

**RS**

Code	Size	Packaging	Notes
615003300	100ml	Bottle	A 1g/l solution Ref Ph.Eur 5003300

### ► Vanadium standard solution > RS-Standard for ICP-MS

**RS**

Code	Size	Packaging	Notes
505926	50ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505927	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505928	100ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid

### ► Vanadium standard solution > RS-Standard for ICP

**RS**

Code	Size	Packaging	Notes
504041	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
504045	100ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
504043	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
504047	500ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

### ► Vanadium standard solution > RS-Standard for AAS

**RS**

Description .....Yellow clear liquid Identification.....Positive Titration factor .....0.998 - 1.002

Code	Size	Packaging	Notes
E497675	100ml	Glass bottle	conc. 1.000 ppm Matrix : Sulfuric acid
E497671	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Sulfuric acid

### ► 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	Normex	Plastic ampoule	conc. 1.000 ppm



## Vanadium (V) oxide

V<sub>2</sub>O<sub>5</sub>  
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**  
3.9/1; H372-3.5/2; H341-3.7/2; H361d-3.1.O/4; H302-3.1.I/4; H332-3.8/3; H335-4.1.O/2; H411  
P260-P261-P271-P304+P340-P405-P501a

### Vanadium (V) oxide > RPE-For analysis

RPE


Description .....Ochre powder Cr .....<= 100 ppm Si .....<= 200 ppm  
Identification.....Positive Fe .....<= 300 ppm Assay (oxidimetric) .....>= 99.60 %  
Appearance of solution.....Conform Ph.Eur. Melting point .....81 - 83 ° C Assay (alkalimetric) .....99.0 - 101.0 % s.s.

Code	Size	Packaging	Notes
491103	50g	Glass bottle	
491105	250g	Glass bottle	

## Vanillin

Synonym : 4-Hydroxy-3-methoxybenzaldehyde

C<sub>8</sub>H<sub>8</sub>O<sub>3</sub>  
Molecular Weight 152,15  
CAS : 121-33-5  
EEC-N : 204-465-2

 **Warning**  
3.1.O/4; H302  
P264-P270-P330-P301+P312-P501a

### Vanillin > ERBAPharm-According to pharmacopoeia: BP-DAB-NF-Ph.Eur.-FU


ERBAPharm

Description .....Yellowish crystals Related compounds.....Conform Ph.Eur. Loss (silica gel) .....<=1.0 % (4h)  
Identification.....Positive React. w. sulphuric ac. ....Conform Ph.Eur. Sulphated ash.....<=500 ppm  
Appearance of solution.....Conform Ph.Eur. Melting point .....81 - 83 ° C Assay (alkalimetric) .....99.0 - 101.0 % s.s.

Code	Size	Packaging	Notes
388104	100g	Plastic bottle	
388107	1kg	Plastic bottle	
388102	10kg	Fibre drum	

## Vanillin solution, phosphoric

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

 **Danger**  
2.6/2; H225-3.2/1B; H314  
P210-P241-P304+P340-P305+P351+P338-P403+P235-P405-P501a

### Vanillin solution, phosphoric > RS-For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611095302	100ml	Bottle	Ref Ph.Eur 1095302


## Vaseline soft

### Vaseline soft > RE-Pure

RE

Appearance .....Soft whitish mass Identification.....Conform Drop melting point.....50 - 60 °C

Code	Size	Packaging	Notes
388607	1kg	Plastic bottle	
388609	5kg	Plastic bottle	

CAS : 1325-85-5  
EEC-N : 215-408-6**Classification transport**  
ONU: 3143  
Transport Hazard class: 6.1  
Packing group III **Warning**  
3.1.O/4; H302  
P264-P270-P330-P301+P312-P501a

## Victoria blue &gt; RS-For microscopy-C.I. 42595

RS

Description .....Green granules Identification.....Positive

Code	Size	Packaging	Notes
429381	10g	Glass bottle	

**Dye for microscopy (Anderson Method).**

## Volumetric solution, traceable to NIST, ready-to-use

Ethylenediaminetetraacetic acid disodium salt 0.05 mol/l (0.1N) .....	199	Nitric acid 1 mol/l (1N) .....	357	Silver nitrate 0.1 mol/l (0.1N) .....	458
Ethylenediaminetetraacetic acid disodium salt 0.1 mol/l (0.2N) .....	199	Perchloric acid 0.1 mol/l (0.1N) in acetic acid .....	377	Silver nitrate 1 mol/l (1N) .....	458
Ethylenediaminetetraacetic acid disodium salt 0.01 mol/l (0.02N) .....	200	Potassium hydroxide 0.1 mol/l (0.1N) .....	414	Sodium hydroxide 0.1 mol/l (N/10) .....	487
Hydrochloric acid 0.1 mol/l (0.1N) .....	248	Potassium hydroxide 0.1 mol/l (0.1N) in ethanol .....	415	Sodium hydroxide 0.25 mol/l (N/4) .....	486
Hydrochloric acid 0.5 mol/l (0.5N) .....	247	Potassium hydroxide 0.1 mol/l (0.1N) in methanol .....	415	Sodium hydroxide 0.357 mol/l (0.357N) .....	485
Hydrochloric acid 1 mol/l (1N) .....	246	Potassium hydroxide 0.25 mol/l (0.25N) .....	414	Sodium hydroxide 0.5 mol/l (N/2) .....	485
Hydrochloric acid 2 mol/l (2N) .....	246	Potassium hydroxide 0.5 mol/l (0.5N) .....	412	Sodium hydroxide 1 mol/l (1N) .....	484
Iodine 0.05 mol/l (0.1N) .....	265	Potassium hydroxide 0.5 mol/l (0.5N) in methanol .....	413	Sodium hydroxide 2 mol/l (2N) .....	483
Iodine 0.5 mol/l (1N) .....	265	Potassium hydroxide 1 mol/l (1N) .....	412	Sodium thiosulfate 0.1 mol/l (0.1N) .....	506
Nitric acid 0.1 mol/l (0.1N) .....	357	Potassium permanganate 0.02 mol/l (0.1N) .....	420	Sulfuric acid 0.05 mol/l (0.1N) .....	534
		Potassium permanganate 0.2 mol/l (1N) .....	420	Sulfuric acid 0.25 mol/l (0.5N) .....	533
		Silver nitrate 0.05 mol/l (0.05N) .....	459	Sulfuric acid 0.5 mol/l (1N) .....	532
				Sulfuric acid 1 mol/l (2N) .....	532

## Water

H<sub>2</sub>O  
Molecular Weight 18,01  
CAS : 7732-18-5  
EEC-N : 231-791-2

## Water &gt; RS-For LC/MS

RS

Description .....	Clear colourless liquid	Alkalinity .....	<= 0.00005 %	Impurities sensitive (reserpine) .....	<= 50 ppb
Colour .....	<= 5 APHA	<b>HPLC Gradient</b>		<b>Metal content</b>	
Identification (I.R.) .....	Positive	At 210 nm .....	<= 2 mAU	Al .....	<= 20 ppb
Conductivity .....	<= 0.09 µS/cm	At 254 nm .....	<= 0.5 mAU	Fe .....	<= 30 ppb
Residue on evaporation .....	<= 0.5 ppm	<b>Drift HPLC</b>		Ca .....	<= 50 ppb
Total organic carbon .....	<= 10 ppb	At 210 nm .....	<= 0.010 AU	Mg .....	<= 20 ppb
Gradient HPLC (Test) .....	Conform	At 254 nm .....	<= 0.003 AU	Na .....	<= 100 ppb
Acidity .....	<= 0.0002 %	I don. test grad. LC-MS (TIC, 100-2000m/z) .....	<= 0.003 %	K .....	<= 50 ppb

Code	Size	Packaging	Notes
412111	1l	Glass bottle	
412112	2,5l	Glass bottle	

Filtered through 0.1µm membrane. Suitable for ULC-MS

## Water &gt; RS-For HPLC PLUS

RS

Description .....	Clear colourless liquid	At 365 nm .....	<=0.5 ppb	<b>Filtered at 0.2 µm</b>	
Identification .....	Positive	<b>UV Abs.max elut.peak</b>		Conductivity during production .....	<= 0.1 µS/cm
Residue on evaporation .....	<=0.5 ppm	At 210 nm .....	<=5 mAu	Heavy metals (Pb) .....	<= 0.1 ppm
Total organic carbon .....	<=0.1 ppm	At 220 nm .....	<=3 mAu	Nitrate .....	<= 0.1 ppm
<b>Fluorescence</b>		At 254 nm .....	<=0.5 mAu	CO <sub>2</sub> .....	Not detectable
At 254 nm .....	<=1 ppb				

Code	Size	Packaging	Notes
412141	1l	Glass bottle	
412142	2,5l	Glass bottle	

## Water > RS-Ultrapur - For trace analysis

Description.....Clear liquid	Ce.....<= 10 ppt	Fe.....<= 10 ppt	Pr.....<= 10 ppt	Th.....<= 1 ppt
Colour.....<= 10 APHA	Cs.....<= 10 ppt	La.....<= 1 ppt	Re.....<= 10 ppt	Tm.....<= 10 ppt
Identification.....Positive	Cr.....<= 10 ppt	Pb.....<= 10 ppt	Rh.....<= 10 ppt	Sn.....<= 10 ppt
Chloride.....<= 1 ppb	Co.....<= 10 ppt	Li.....<= 10 ppt	Rb.....<= 10 ppt	Ti.....<= 10 ppt
Phosphate.....<= 1 ppb	Cu.....<= 10 ppt	Lu.....<= 1 ppt	Ru.....<= 10 ppt	W.....<= 10 ppt
Sulphate.....<= 1 ppb	Dy.....<= 1 ppt	Mg.....<= 10 ppt	Sm.....<= 10 ppt	U.....<= 1 ppt
Al.....<= 20 ppt	Er.....<= 1 ppt	Mn.....<= 10 ppt	Sc.....<= 10 ppt	V.....<= 10 ppt
Sb.....<= 10 ppt	Eu.....<= 1 ppt	Hg.....<= 20 ppt	Se.....<= 50 ppt	Yb.....<= 10 ppt
As.....<= 10 ppt	Gd.....<= 1 ppt	Mo.....<= 10 ppt	Ag.....<= 10 ppt	Y.....<= 1 ppt
Ba.....<= 10 ppt	Ga.....<= 10 ppt	Nd.....<= 1 ppt	Na.....<= 10 ppt	Zn.....<= 10 ppt
Be.....<= 10 ppt	Ge.....<= 10 ppt	Ni.....<= 10 ppt	Sr.....<= 10 ppt	Zr.....<= 10 ppt
Bi.....<= 10 ppt	Au.....<= 10 ppt	Nb.....<= 10 ppt	Ta.....<= 10 ppt	
B.....<= 20 ppt	Hf.....<= 1 ppt	Pd.....<= 10 ppt	Te.....<= 1 ppt	
Cd.....<= 10 ppt	Ho.....<= 1 ppt	Pt.....<= 10 ppt	Tb.....<= 10 ppt	
Ca.....<= 10 ppt	In.....<= 1 ppt	K.....<= 10 ppt	Tl.....<= 10 ppt	

Code	Size	Packaging	Notes
412185	500ml	Plastic bottle	

## Water > RS-Superpure-For trace analysis

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	Absorption max (at 254 nm).....0.002	At 400 nm.....<= 0.005
Residue on evaporation.....<= 1 ppm	Ca.....<= 50 ppb	Absorbance (at 254 nm).....<= 0.002	LC Gradient (Suitability Test).....Conform
Fluorescence (Quinine).....<= 100 ppt	Fe.....<= 50 ppb	At 200 nm.....<= 0.01	

Code	Size	Packaging	Notes
412151	1l	Glass bottle	

## Water > RS-For analysis according to Ph. Eur. Chap. 4.1.1

Code	Size	Packaging	Notes
611095501	1l	Bottle	Water ammonium-free Ref Ph.Eur 1095501
611095506	1l	Bottle	Water nitrate-free Ref Ph.Eur 1095506

## Water > RPE-For analysis

Description.....Clear colourless liquid	Ba.....<= 0.01 ppm	Mn.....<= 0.01 ppm
pH at 25°C.....5 - 7	Be.....<= 0.01 ppm	Mo.....<= 0.01 ppm
Conductivity during production.....<= 0.1 µS/cm	Bi.....<= 0.01 ppm	Na.....<= 0.1 ppm
Residue on evaporation.....<= 1 ppm	Ca.....<= 0.01 ppm	Ni.....<= 0.01 ppm
Residue on calcination.....<= 1 ppm	Cd.....<= 0.01 ppm	Pb.....<= 0.01 ppm
Chloride.....<= 0.1 ppm	Co.....<= 0.01 ppm	Si.....<= 0.01 ppm
Phosphate.....<= 0.1 ppm	Cr.....<= 0.01 ppm	Sn.....<= 0.01 ppm
Nitrate.....<= 0.1 ppm	Cu.....<= 0.01 ppm	Sr.....<= 0.01 ppm
Sulphate.....<= 0.1 ppm	Fe.....<= 0.01 ppm	Tl.....<= 0.01 ppm
Ag.....<= 0.01 ppm	In.....<= 0.01 ppm	V.....<= 0.01 ppm
As.....<= 0.01 ppm	K.....<= 0.01 ppm	Zn.....<= 0.01 ppm
Au.....<= 0.01 ppm	Li.....<= 0.01 ppm	Zr.....<= 0.01 ppm
B.....<= 0.01 ppm	Mg.....<= 0.01 ppm	Oxidizing substances (O).....<= 0.4 mg/l

Code	Size	Packaging	Notes
307582	5l	Plastic bottle	
307586	10l	Kubidos	
307584	20l	Kubidos	
307583	25kg	Plastic tank	
307587	25kg	Plastic tank	with tap
307585	50kg	Plastic tank	

## Water + 0.1% v/v formic acid

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

Description.....Clear colourless liquid	At 210 nm.....>= 5 %	Al.....<= 20 ppb
Colour.....<= 10 APHA	At 230 nm.....>= 45 %	Fe.....<= 30 ppb
Acidity (formic acid).....0.095 - 0.105 %	At 254 nm.....>= 99 %	Ca.....<= 50 ppb
HPLC Gradient	pH at 20°C.....2.6 - 2.8	Mg.....<= 20 ppb
At 210 nm.....<= 50 mAU	Test LC-MS TIC (100-2000m/z)	Na.....<= 100 ppb
At 254 nm.....<= 10 mAU	Sensitive Impurities (reserpine).....<= 50 ppb	K.....<= 50 ppb
Transmittance	Metals content	

Code	Size	Packaging	Notes
412121	1l	Glass bottle	
412122	2,5l	Glass bottle	

Product specifications are subject to changes.  
Please visit our website for updates.

## Water deionized and acidified

Water deionized and acidified > RS-Blank for AAS, ICP, ICP-MS

RS

Code	Size	Packaging	Notes
504550	1l	Bottle	Matrix : 2 % Nitric acid
504551	1l	Bottle	Matrix : 5 % Nitric acid
504552	1l	Bottle	Matrix : 10 % Nitric acid
504553	1l	Bottle	Matrix : 2 % Hydrochloric acid
504554	1l	Bottle	Matrix : 5 % Hydrochloric acid
504557	1l	Bottle	Matrix : 10 % Hydrochloric acid

## Water purified

H<sub>2</sub>O  
Molecular Weight 18,01  
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.Eur.

Oxidizable substances .....Conform Ph.Eur.  
Chloride .....Pass test  
Sulphate .....Pass test  
Calcium .....Conform

Calcium + Magnesium .....Conform Ph.Eur.  
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.Eur.  
Origin (BSE/TSE) .....Mineral

Code	Size	Packaging	Notes
307602	10l	Kubidos	
307603	25kg	Plastic tank	

## Wijs' reagent

**Classification transport**  
ONU: 2920  
Transport Hazard class: 8  
Packing group II



**Danger**

3.2/1A; H314-2.6/3; H226  
P210-P241-P304+P340-P305+P351+P338-P403+P235-P405-P501a

Wijs' reagent > RS-For detecting index iodic

RS

Description .....Brown clear liquid  
Identification .....Positive  
Iodine value .....>=90

Code	Size	Packaging	Notes
E491901	250ml	Glass bottle	
E491902	1l	Glass bottle	

## Wood's alloy

CAS : 8049-22-7

**Classification transport**  
ONU: 1549  
Transport Hazard class: 6.1  
Packing group III



**Danger**

3.1.1/2; H330-3.6/1B; H350-3.9/1; H372-3.5/2; H341-3.1.0/4; H302-4.1.C/2; H411-EUH201-A26  
P260-P271-P284-P304+P340-P405-P501a

Wood's alloy > RPE-For analysis

RPE

Description .....Gray granules  
Identification .....Positive  
Melting point .....~ 75 °C

Bi .....>=50 %  
Cd .....>=12.5 %  
Pb .....>=25 %  
Sn .....>=12.5 %

Code	Size	Packaging	Notes
457775	250g	Plastic bottle	
457779	2,5kg	Plastic bottle	

## Wright's stain solution in methanol

## Classification transport

ONU: 1230  
 Transport Hazard class: 3  
 Packing group II



## Danger

2.6/2; H225-3.1.D/3; H311-3.8/1; H370  
 P210-P241-P307+P311-P403+P235-P405-P501a

## Wright's stain solution in methanol &gt; RS-For microscopy

RS

Description .....Blue clear liquid Absorbance ..... At 660 nm .....>= 0.15  
 Identification .....Positive At 518 nm .....>= 0.17

Code	Size	Packaging	Notes
492011	100ml	Glass bottle	

Dye for hematology

## Xylene, mix of isomers

C<sub>8</sub>H<sub>10</sub>  
 Molecular Weight 106,17  
 CAS : 1330-20-7  
 EEC-N : 215-535-7

## Classification transport

ONU: 1307  
 Transport Hazard class: 3  
 Packing group III



## Warning

2.6/3; H226-3.1.D/4; H312-3.1.I/4; H332-3.2/2; H315  
 P210-P241-P243-P304+P340-P403+P235-P501a

## Xylene, mix of isomers &gt; RS-RSE For electronic use

RS

Description .....Clear liquid	Phosphate .....<=1 ppm	Cd.....<=0.005 ppm	Ni.....<=0.01 ppm
Colour .....<=10 APHA	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
492359	2,5l	Glass bottle	

## Xylene, mix of isomers &gt; RS-MOS- For electronic use

RS

Description .....Clear liquid	Phosphate .....<=1 ppm	Cd.....<=0.005 ppm	Ni.....<=0.01 ppm
Colour .....<=10 APHA	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
492241	2,5l	Glass bottle	

## Xylene, mix of isomers &gt; 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 .....<=10 APHA	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
Ready carbonizable substances .....Conform	Benzene.....<= 50 ppm	Cd.....<=0.05 ppm	Pb.....<=0.05 ppm
Density at 20° C .....0.864 - 0.870	Ethylbenzene .....<=25 %	Co.....<=0.02 ppm	Any single impurity .....<= 0.5 %
Refractive index at 20°C .....1.4947 - 1.4987	Tiophene.....<=1 ppm	Cr.....<=0.02 ppm	Zn .....<=0.05 ppm
Boiling point .....139.0 - 140.0 °C	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	

Code	Size	Packaging	Notes
492301	1l	Glass bottle	
492306	2,5l	Glass bottle	
492305	5l	Plastic tank	
492303	23kg	Metal tank	
492304	170kg	Metal drum	

Product specifications are subject to changes.  
 Please visit our website for updates.

## Xylene, mix of isomers &gt; RE-Pure-Low content in benzene

RE

Description	Clear liquid	Boiling point	137.5 - 139.5 °C	Total sulphur	<= 100 ppm
Identity (I.R.)	Positive	Residue on evaporation	<= 100 ppm	Assay (isomeric mix)	>= 98.5 %
Density at 20°C	0.862 - 0.872	Water (K.F.)	<= 200 ppm		
Refractive index at 20°C	1.4917 - 1.5017	Benzene	<= 50 ppm		

Code	Size	Packaging	Notes
392602	1l	Glass bottle	
392603	2,5l	Glass bottle	
528251	5l	Plastic tank	
528252	200l	Metal drum	
392605	23kg	Metal tank	
392608	170kg	Metal drum	

## o-Xylene

Synonym : 1,2-Dimethylbenzene

C<sub>6</sub>H<sub>4</sub>(CH<sub>3</sub>)<sub>2</sub>  
Molecular Weight 106,17  
CAS : 95-47-6  
EEC-N : 202-422-2

## Classification transport

ONU: 1307  
Transport Hazard class: 3  
Packing group II



## Warning

2.6/3; H226-3.1.D/4; H312-3.1.I/4; H332-3.2/2; H315  
P210-P241-P243-P304+P340-P403+P235-P501a

## o-Xylene &gt; RPE-For analysis

RPE

Description	Clear colourless liquid	Ready carbonizable substances	Conform	Water (K.F.)	<=300 ppm	Ethylbenzene	<=0.15 %
Identification	Positive	Density at 20° C	0.875 - 0.885	Residue on evaporation	<=10 ppm	Tiophene	<=1 ppm
Alcohol miscibility	Complete	Refractive index at 20°C	1.5028 - 1.5088	Acidity (benzoic acid)	<=14 ppm	Toluene	<=0.15 %
Chloroform miscibility	Complete	Boiling point	139.0 - 149.0 °C	Alcalinity (NH3)	<=2 ppm	Total sulphur	<=5 ppm
Diethyl ether miscib.	Complete	Freezing point	-23.5 - -26.5 °C	Benzene	<=0.15 %	Assay (GLC)	>=99 %

Code	Size	Packaging	Notes
492403	1l	Glass bottle	
492404	2,5l	Glass bottle	
492401	24kg	Metal tank	

## Xylenecyanol

C<sub>25</sub>H<sub>27</sub>N<sub>2</sub>NaO<sub>6</sub>S<sub>2</sub>  
Molecular Weight 538,62  
CAS : 2650-17-1  
EEC-N : 220-167-5



## Warning

3.3/2; H319  
P280-P264-P305+P351+P338-P337+P313

## Xylenecyanol &gt; RPE-For analysis

RPE

Description	Deep green crystals	Colour change	(pink - green)
Identification	Positive	pH range	3.2 - 4.2

Code	Size	Packaging	Notes
492211	1g	Glass bottle	

Dye for microscopy (histology). Acid base indicator. C.I. 42135.

## 2,4-Xylenol

(CH<sub>3</sub>)<sub>2</sub>C<sub>6</sub>H<sub>3</sub>OH  
Molecular Weight 122,17  
CAS : 105-67-9  
EEC-N : 203-321-6

## Classification transport

ONU: 3430  
Transport Hazard class: 6.1  
Packing group II



## Danger

3.1.O/3; H301-3.1.D/3; H311-3.2/1B; H314-4.1.C/2; H411  
P260-P280-P304+P340-P305+P351+P338-P405-P501a

## 2,4-Xylenol &gt; RE-Pure

RE

Description	Yellow clear liquid	Density at 20° C	1.015 - 1.021	Residue on ignition	<=100 ppm
Identification	Positive	Boiling point	210.5 - 212.5 °C	Assay (GC)	>= 98.0 %

Code	Size	Packaging	Notes
492661	25ml	Glass bottle	

## Xylenol orange

C<sub>31</sub>H<sub>30</sub>O<sub>13</sub>N<sub>2</sub>SNaz  
Molecular Weight 716,63  
CAS : 1611-35-4  
EEC-N : 216-553-8



### Warning

3.2/2; H315-3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

### Xylenol orange > RPE-For analysis

RPE

Description .....Orange crystalline powder Identification.....Positive Sens.as complex.indicat.....Conform

Code	Size	Packaging	Notes
423597	1g	Glass bottle	
423598	5g	Glass bottle	

*Complexometric indicator*

## Xylidyl blue I

C<sub>25</sub>H<sub>20</sub>O<sub>6</sub>N<sub>3</sub>SNa  
Molecular Weight 513,49  
CAS : 36505-52-9  
EEC-N : 253-071-7

### Xylidyl blue I > RPE-For analysis

RPE

Description .....Red brick powder Identification.....Positive

Code	Size	Packaging	Notes
429397	1g	Glass bottle	

*Complexometric indicator*

## D(+)-Xylose

CH<sub>2</sub>(CHOH)<sub>3</sub>CHOH  
Molecular Weight 150,13  
CAS : 58-86-6  
EEC-N : 200-400-7

### D(+)-Xylose > RPE-For analysis

RPE

Description .....White crystalline powder Water (K.F.).....<=0.2 % Residue on ignition .....<=0.1 %  
Identification.....Positive Chloride .....<=50 ppm Sulphate .....<=50 ppm  
Specific optical rotation .....+19 - +21 ° Heavy metals (Pb).....<=10 ppm

Code	Size	Packaging	Notes
492803	50g	Glass bottle	

### D(+)-Xylose > RE-Pure

RE

Description .....White crystalline powder Loss on drying .....<=0.3 % Residue on ignition .....<=0.1 %  
Identification.....Positive Acidity (acetic acid) .....<=300 ppm Sulphate .....<=50 ppm  
Melting point .....144 - 148 ° C Chloride .....<=50 ppm As .....<=1 ppm  
Specific optical rotation .....+19.0 - +20.0 ° Heavy metals (Pb).....<=10 ppm

Code	Size	Packaging	Notes
392631	500g	Plastic bottle	
392635	25kg	Plastic bucket	

Product specifications are subject to changes.  
Please visit our website for updates.

# YEA

## Yeast dried

### Yeast dried > RE-Pure

**RE**

Description.....Powder-great smell nutty about Identification.....Positive

Code	Size	Packaging	Notes
348854	100g	Plastic bottle	
348857	1kg	Plastic bottle	

## Ytterbium standard solution

### Ytterbium standard solution > RS-Standard for ICP-MS

**RS**

Code	Size	Packaging	Notes
505946	50ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505947	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505948	100ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid

### Ytterbium standard solution > RS-Standard for ICP

**RS**

Code	Size	Packaging	Notes
504071	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
504075	100ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
504073	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
504077	500ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

## Yttrium standard solution

### Yttrium standard solution > RS-Standard for ICP-MS

**RS**

Code	Size	Packaging	Notes
505941	50ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505942	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505945	100ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid

### Yttrium standard solution > RS-Standard for ICP

**RS**

Code	Size	Packaging	Notes
504061	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
504065	100ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
504063	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
504067	500ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

## Yttrium (III) oxide

Y<sub>2</sub>O<sub>3</sub>  
Molecular Weight 225,82  
CAS : 1314-36-9  
EEC-N : 215-233-5

**Warning**

3.2/2; H315-3.3/2; H319-3.8/3; H335  
P261-P271-P304+P340-P305+P351+P338-P405-P501a

### Yttrium (III) oxide > RPE-For analysis

**RPE**Description.....White powder Loss on ignition.....<=3 %  
Identification.....Positive Assay (gravimetric).....99 - 100 % s s

Code	Size	Packaging	Notes
457107	1g	Glass bottle	

**Y**



## Ziehl-Neelsen's reagent

## Classification transport

ONU: 2206  
 Transport Hazard class: 6.1  
 Packing group III



3.1.1/3; H331-3.2/1B; H314-3.5/2; H341  
 P260-P261-P304+P340-P305+P351+P338-P405-P501a

## Ziehl-Neelsen's reagent &gt; RS-For microscopy

RS

Description.....Red liquid Identification.....Positive Absorbance at 554 nm.....>= 0.14

Code	Size	Packaging	Notes
493101	250ml	Glass bottle	
493102	1l	Glass bottle	

Dye for bacteriology. Contains carbol fuchsin

## Zinc standard solution

## Zinc standard solution &gt; RS-For analysis according to Ph. Eur. Chap. 4.2.1

RS

Code	Size	Packaging	Notes
612000800	100g	Bottle	Ref Ph.Eur 2000800

## Zinc standard solution &gt; RS-For analysis according to Ph. Eur. Chap. 4.1.2

RS

Code	Size	Packaging	Notes
615003400	100ml	Bottle	A 5mg/l solution Ref Ph.Eur 5003400
615003402	100ml	Bottle	A 10 ppm solution : to dilute according to Ref Ph.Eur 5003402
615003403	100ml	Bottle	A 5 ppm solution : to dilute according to Ref Ph.Eur 5003403
615003409	100ml	Bottle	A 100 ppm solution : to dilute according to Ref Ph.Eur 5003401

## Zinc standard solution &gt; RS-Standard for ICP-MS

RS

Code	Size	Packaging	Notes
505951	50ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505952	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505955	100ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid

## Zinc standard solution &gt; RS-Standard for ICP

RS

Code	Size	Packaging	Notes
504081	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
504085	100ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrochloric acid
504083	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
504087	500ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrochloric acid

## Zinc standard solution &gt; RS-Standard for AAS

RS

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

Code	Size	Packaging	Notes
E497685	100ml	Glass bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
E497681	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid

## Zinc standard solution &gt; RS-NORMEX- Concentrated solution for AAS

RS

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

Code	Size	Packaging	Notes
493151	Normex	Plastic ampoule	conc. 1.000 ppm Matrix : Water

# ZIN

## Zinc, foil

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	1kg	Bottle	

## Zinc, granular

Zn  
Molecular Weight 65,38  
CAS : 7440-66-6  
EEC-N : 231-175-3



**Danger**

2.11/1; H251-2.12/2; H261  
P280-P232-P370+P378a-P402+P404-P420-P501a

### Zinc, granular > RPE-For analysis

RPE

Code	Size	Packaging	Notes
493451	500g	Plastic bottle	0,5 - 1 mm
493307	1kg	Plastic bottle	1 - 7 mm

## Zinc, powder

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**

2.10/1; H250-2.12/1; H260-4.1.A/1; H400-4.1.C/1; H410  
P210-P222-P231+P232-P335+P334-P422a-P501a

### Zinc, powder > RE-Pure

RE

Description.....Grey powder Identification.....Positive Assay (oxidimetric) .....>=85 %

Code	Size	Packaging	Notes
493705	250g	Glass bottle	
493707	1kg	Plastic bottle	
493702	25kg	Metal bucket	

## Zinc, activated

### Zinc, activated > RS-For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611096501	100g	Bottle	Ref Ph.Eur 1096501

## Zinc acetate dihydrate

Zn(CH<sub>3</sub>COO)<sub>2</sub>·2H<sub>2</sub>O  
Molecular Weight 219,49  
CAS : 5970-45-6



**Warning**

3.1.0/4; H302  
P264-P270-P330-P301+P312-P501a

### Zinc acetate dihydrate > RPE-For analysis

RPE

Description.....White shining crystals Water-insoluble matter .....<=30 ppm Cu.....<=5 ppm Ni.....<=5 ppm  
Identification.....Positive Sulphate.....<=10 ppm Fe.....<=3 ppm Pb.....<=5 ppm  
pH sol. 5% at 25° C .....6.2 - 6.6 As.....<=0.4 ppm K.....<=100 ppm Assay (complexometric).....>=99.5 %  
Chloride .....<=5 ppm Ca.....<=100 ppm Mn.....<=5 ppm  
Phosphate .....<=20 ppm Cd.....<=5 ppm Na.....<=50 ppm

Code	Size	Packaging	Notes
493807	1kg	Plastic bottle	
493803	25kg	Plastic bucket	

## Zinc acetate solution

## Zinc acetate solution &gt; RS-For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611102301	1l	Bottle	Ref Ph.Eur 1102301

## Zinc carbonate basic

[ZnCO<sub>3</sub>]<sub>2</sub>·[Zn(OH)<sub>2</sub>]<sub>3</sub>  
 CAS : 5260-02-5  
 EEC-N : 226-076-7

## Zinc carbonate basic &gt; RPE-For analysis

RPE

Description.....White powder	Cd.....<= 1 ppm	Mn.....<= 20 ppm	Loss on drying.....<= 3 %
Identification.....Positive	Cu.....<= 5 ppm	Ni.....<= 5 ppm	Loss on ignition.....25.5 ± 0.5 %
Sulphate.....<= 0.5 %	Fe.....<= 20 ppm	Pb.....<= 5 ppm	Assay (alkalimetric).....>= 69 % (ZnO)

Code	Size	Packaging	Notes
494006	500g	Plastic bottle	

## Zinc chloride anhydrous

ZnCl<sub>2</sub>  
 Molecular Weight 136,28  
 CAS : 7646-85-7  
 EEC-N : 231-592-0

## Classification transport

ONU: 2331  
 Transport Hazard class: 8  
 Packing group III



3.2/1B; H314-4.1.A/1; H400-4.1.C/1; H410-3.1.O/4; H302  
 P260-P280-P304+P340-P305+P351+P338-P405-P501a

## Zinc chloride anhydrous &gt; RPE-For analysis-ACS

RPE

Description.....White crystals	Nitrate.....<=30 ppm	Fe.....<=10 ppm	Pb.....<=50 ppm
Identification.....Positive	Oxichloride(ZnO).....Conform	K.....<=200 ppm	Assay (argentimetric).....>=97.0 %
Ammonium.....<=50 ppm	Sulphate.....<=100 ppm	Mg.....<=100 ppm	
Diluted HCl-ins. matter.....<=50 ppm	Ca.....<=600 ppm	Na.....<=500 ppm	

Code	Size	Packaging	Notes
494105	250g	Plastic bottle	
494107	1kg	Plastic bottle	
494106	10kg	Plastic bottle	

## Zinc chloride anhydrous &gt; ERBAPharm-According to pharmacopoeia: USP

ERBAPharm

Description.....White powder	Sulphate.....<=0.03 %	Alkaly-alkaline earth.....<=1.0 %
Identification.....Positive	Ammonium.....Conform USP	Organic volatile impurities.....Conform USP
Oxichloride(ZnO).....Conform USP	Pb.....<=50 ppm	Assay.....97.0 - 100.5 %

Code	Size	Packaging	Notes
393024	50kg	Drum	

## Zinc chloride anhydrous &gt; RE-Pure

RE

Description.....White crystalline powder	Sulphate.....<=0.05 %	Assay (complexometric).....>=97 %
Identification.....Positive	Fe.....<=10 ppm	

Code	Size	Packaging	Notes
393007	1kg	Plastic bottle	
393009	5kg	Plastic bottle	
393002	25kg	Drum	

# ZIN

## Zinc chloride solution 60%

### Classification transport

ONU: 1840  
Transport Hazard class: 8  
Packing group III



### Danger

3.2/1B; H314-4.1.A/1; H400-4.1.C/1; H410-3.1.O/4; H302-3.8/3; H335-H336  
P260-P261-P304+P340-P305+P351+P338-P405-P501a

### Zinc chloride solution 60% > RPE-For analysis

RPE

Description.....Colourless liquid Identification.....Positive Density at 20° C.....>=1.750

Code	Size	Packaging	Notes
E494301	1l	Glass bottle	

## Zinc chloride solution, iodinated

### Classification transport

ONU: 1760  
Transport Hazard class: 8  
Packing group III



### Danger

3.4.R/1; H334-3.2/1B; H314-4.1.A/1; H400-4.1.C/1; H410-3.1.O/4; H302-3.8/3; H335-H336-3.4.S/1;  
H317  
P260-P304+P340-P305+P351+P338-P342+P311-P405-P501a

### Zinc chloride solution, iodinated > RS-For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611096603	500ml	Bottle	Ref Ph.Eur 1096602
611096602	1l	Bottle	Ref Ph.Eur 1096602

Storage: protected from light

## Zinc chloride-formic acid solution

### Classification transport

ONU: 1760  
Transport Hazard class: 8  
Packing group II



### Danger

3.2/1B; H314-3.1.O/4; H302-3.8/3; H335-H336-4.1.C/2; H411  
P260-P261-P304+P340-P305+P351+P338-P405-P501a

### Zinc chloride-formic acid solution > RS-For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611096601	1l	Bottle	Ref Ph.Eur 1096601

## Zinc dibenzylthiocarbamate

$[(C_6H_5CH_2)_2NCSS]_2Zn$   
Molecular Weight 610,20  
CAS : 14726-36-4  
EEC-N : 238-778-0

### Zinc dibenzylthiocarbamate > RPE-For analysis

RPE

Description.....White powder Melting point.....183 - 185 ° C  
Identification.....Positive Assay (complexometric).....>=94 %

Code	Size	Packaging	Notes
494311	10g	Glass bottle	

## Zinc nitrate hexahydrate

Zn(NO<sub>3</sub>)<sub>2</sub>·6H<sub>2</sub>O  
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**  
2.14/2; H272-3.1.O/4; H302-3.2/2; H315-3.3/2; H319-3.8/3; H335  
P210-P221-P304+P340-P305+P351+P338-P405-P501a

## Zinc nitrate hexahydrate &gt; RPE-For analysis

RPE

Description .....White semitransparent crystals Chloride .....<= 100 ppm Pb .....<= 100 ppm  
Identification.....Positive Fe.....<= 20 ppm Assay (complexometric).....>= 97.5 %

Code	Size	Packaging	Notes
494507	1kg	Plastic bottle	

## Zinc oxide

ZnO  
Molecular Weight 81,39  
CAS : 1314-13-2  
EEC-N : 215-222-5

**Classification transport**  
ONU: 3077  
Transport Hazard class: 9  
Packing group III



**Warning**  
4.1.A/1; H400-4.1.C/1; H410  
P273-P391-P501a

## Zinc oxide &gt; RPE-For analysis

RPE

Description .....White powder Phosphate .....<=5 ppm As .....<=0.5 ppm Ni .....<=10 ppm  
Identification.....Positive Dil. H<sub>2</sub>SO<sub>4</sub>-ins. matter.....<=100 ppm Ca .....<=50 ppm Pb .....<=50 ppm  
Alcalinity .....Conform Nitrate .....<=20 ppm Cd .....<=10 ppm Zn .....<=20 ppm  
Loss on ignition .....<=0.5 % Subst. not ppt. (NH<sub>4</sub>)<sub>2</sub>S .....<=0.1 % Cu .....<=5 ppm Assay (alkalimetric) .....>=99.0 %  
Carbonate .....<=0.2 % Subst. reducing KMnO<sub>4</sub> .....<=10 ppm(15m) Fe.....<=10 ppm  
Chloride .....<=5 ppm Total sulphur.....<=50 ppm Mn.....<=5 ppm

Code	Size	Packaging	Notes
494607	1kg	Plastic bottle	
494602	25kg	Drum	

## Zinc oxide &gt; ERBAPharm-According to pharmacopoeia: Ph.Eur.-USP-FU-Ph.Franc.-BP

ERBAPharm

Description .....Yellowish powder Loss on calcin. 500°C.....<=1.0 % Assay (complexometric) .....99.0 - 100.5 % s.s.c.  
Identification.....Positive As .....<=5 ppm Origin (BSE/TSE) .....Synthesis  
Alcalinity .....Conform Ph.Eur. Cd .....<=10 ppm Residual solvents (CPMP/ICH/283/95) .....Conform  
Coal and acid ins.matt.....Conform Ph.Eur. Fe .....<=200 ppm  
Fe - other heavy metals .....Conform USP-NF Pb .....<=50 ppm

Code	Size	Packaging	Notes
393507	1kg	Plastic bottle	
393509	5kg	Plastic bottle	
393503	25kg	Plastic bucket	

## Zinc stearate

C<sub>36</sub>H<sub>70</sub>O<sub>4</sub>Zn  
Molecular Weight 632,33  
CAS : 557-05-1  
EEC-N : 209-151-9



**Warning**  
3.8/3; H335  
P261-P271-P304+P340-P312-P405-P501a

## Zinc stearate &gt; ERBAPharm-Vegetal origin- According to pharmacopoeia: Ph.Eur.-USP-FU

ERBAPharm

Description .....White powder Acidity ind. fat acids .....195 - 210 As .....<= 1.5 ppm  
Identification.....Positive Freezing point.....>=54 °C Cd .....<= 5.0 ppm  
Appearance of solution.....Conform Ph.Eur. Alkali-alkaline earth .....<= 1.0 % Pb .....<= 10 ppm  
Solution appea. fat ac.....Conform Ph.Eur. Chloride .....<= 250 ppm Assay as Zn (complexometric) .....10.0 - 12.0 %  
Acidity or alkalinity .....Conform Ph.Eur. Sulphate .....<= 0.6 % Assay as ZnO (complexometric) .....12.5 - 14.0 %


Code	Size	Packaging	Notes
395451	1kg	Plastic bottle	
395452	10kg	Plastic bucket	

# ZIN

## Zinc sulfate heptahydrate

ZnSO<sub>4</sub>·7H<sub>2</sub>O  
Molecular Weight 287,54  
CAS : 7446-20-0

**Classification transport**  
ONU: 3077  
Transport Hazard class: 9  
Packing group III

 **Warning**  
4.1.A/1; H400-4.1.C/1; 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
494907	1kg	Plastic bottle	
494909	5kg	Plastic bottle	
494901	25kg	Bag	

### Zinc sulfate heptahydrate > ERBAPharm-According to pharmacopoeia: Ph.Eur.-USP-FU-Ph.Franc.-BP

**ERBAPharm**


Description.....White crystalline powder pH sol. 5% at 25° C .....4.4 - 5.6 Fe .....<=100 ppm  
Identification.....Positive Chloride .....<=300 ppm Pb .....<=20 ppm  
Appearance of solution.....Conform Ph.Eur. Alkaline,alk.earth met. ....<=0.9 % Assay (complexometric).....99.0 - 104.0 %  
Acidity.....Conform USP-NF As .....<=14 ppm

Code	Size	Packaging	Notes
394007	1kg	Plastic bottle	
394009	5kg	Plastic bottle	
394001	25kg	Fibre drum	

## Zinc sulfate monohydrate

ZnSO<sub>4</sub>·H<sub>2</sub>O  
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**  
3.3/1; H318-4.1.A/1; H400-4.1.C/1; H410-3.1.O/4; H302  
P280-P273-P305+P351+P338-P330-P301+P312-P501a


### Zinc sulfate monohydrate > RPE-For analysis

**RPE**

Description.....White powder Water-insoluble matter .....<=50 ppm Cd.....<=5 ppm Na.....<=100 ppm  
Identification.....Positive Nitrate .....<=20 ppm Cu.....<=10 ppm Ni .....<=5 ppm  
Loss on drying .....10,5 - 11,5 % Subst. not ppt. (NH<sub>4</sub>)<sub>2</sub>S .....<=0,2 % Fe.....<=3 ppm Pb.....<=10 ppm  
Ammonium .....<=100 ppm As .....<=0,5 ppm K.....<=50 ppm Assay (complexometric).....>=97.5 %  
Chloride .....<=20 ppm Ca.....<=100 ppm Mn.....<=2 ppm

Code	Size	Packaging	Notes
495005	250g	Plastic bottle	
495007	1kg	Plastic bottle	

## Zinc sulfate 0.1 mol/l (0.1N)

 **Warning**  
3.3/2; H319-4.1.C/3; H412  
P280-P273-P264-P305+P351+P338-P337+P313-P501a

### Zinc sulfate 0.1 mol/l (0.1N) > RS-For analysis according to Ph. Eur. Chap. 4.2.2

**RS**

Code	Size	Packaging	Notes
613008601	500ml	Bottle	Ref Ph.Eur 3008600
613008600	1l	Bottle	Ref Ph.Eur 3008600

## ▶ Zinc sulfate 0.1 mol/l (0.1N) &gt; RPE-For analysis

Description .....Clear colourless liquid Assay (potentiometry).....0.1996 - 0.2004 N

Code	Size	Packaging	Notes
494921	1l	Plastic bottle	

## ▶ Zinc sulfate 0.05 mol/l (0.05N)



## Warning

3.3/2; H319-4.1.C/3; H412  
P280-P273-P264-P305+P351+P338-P337+P313-P501a

## ▶ Zinc sulfate 0.05 mol/l (0.05N) &gt; RPE-For analysis

Description .....Clear colourless liquid Titration factor.....0.998 - 1.002

Code	Size	Packaging	Notes
494931	1l	Plastic bottle	

## ▶ Zinc sulfide

ZnS	EUH031
Molecular Weight 97,43	
CAS : 1314-98-3	
EEC-N : 215-251-3	

## ▶ Zinc sulfide &gt; RPE-For analysis

Description .....White-green powder Chloride.....<=500 ppm Assay (complexometric).....>=98 %  
Identification.....Positive Heavy metals (Pb).....<=20 ppm  
Ammonium.....<=500 ppm Fe.....<=50 ppm

Code	Size	Packaging	Notes
495105	250g	Plastic bottle	
495107	1kg	Plastic bottle	

## ▶ Zincon

C <sub>20</sub> H <sub>15</sub> N <sub>4</sub> O <sub>6</sub> SNa.H <sub>2</sub> O
Molecular Weight 480,43
CAS : 62625-22-3
EEC-N : 263-651-1

## ▶ Zincon &gt; RPE-For analysis

Description .....Purple powder Copper sensitivity.....~ 50 µg/ml  
Identification.....Positive Zinc sensitivity.....~ 10 µg/ml

Code	Size	Packaging	Notes
495144	5g	Glass bottle	

For the spectrophotometric determination of Cu and Zn in animal tissues

## ▶ Zirconium

Zr
Molecular Weight 91,22
CAS : 7440-67-7
EEC-N : 231-176-9

**Classification transport**  
ONU: 2008  
Transport Hazard class: 4.2  
Packing group I



## Danger

2.10/1; H250-2.12/1; H260  
P210-P222-P231+P232-P335+P334-P422a-P501a

## ▶ Zirconium &gt; RPE-For analysis

Description .....Dark grey powder Identification.....Positive Assay (gravimetric).....&gt;=97 %

Code	Size	Packaging	Notes
495202	25g	Glass bottle	
495206	250g	Glass bottle	

## Zirconium standard solution

## Zirconium standard solution &gt; RS-For analysis according to Ph. Eur. Chap. 4.1.2

RS

Code	Size	Packaging	Notes
615003500	100ml	Bottle	A 1g/l solution Ref Ph.Eur 5003500

## Zirconium standard solution &gt; RS-Standard for ICP-MS

RS

Code	Size	Packaging	Notes
505956	50ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrofluoric acid and nitric acid
505957	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrofluoric acid and nitric acid
505958	100ml	Plastic bottle	conc. 100 ppm Matrix : Hydrofluoric acid and nitric acid

## Zirconium standard solution &gt; RS-Standard for ICP

RS

Code	Size	Packaging	Notes
504091	100ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrofluoric acid and hydrochloric acid
504095	100ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrofluoric acid and hydrochloric acid
504093	500ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrofluoric acid and hydrochloric acid
504097	500ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrofluoric acid and hydrochloric acid

## Zirconium (IV) oxide

Synonym : Zirconia

ZrO<sub>2</sub>  
Molecular Weight 123,22  
CAS : 1314-23-4  
EEC-N : 215-227-2

## Zirconium (IV) oxide &gt; RPE-For analysis

RPE

Description ..... White powder Chloride ..... <=100 ppm Assay (complexometric) ..... >=99 %  
Identification ..... Positive Fe ..... <=200 ppm

Code	Size	Packaging	Notes
495305	250g	Glass bottle	

## Zirconyl chloride octahydrate

ZrOCl<sub>2</sub>.8H<sub>2</sub>O  
Molecular Weight 322,26  
CAS : 13520-92-8  
EEC-N : 231-717-9

**Classification transport**  
ONU: 3260  
Transport Hazard class: 8  
Packing group III

 **Danger**

3.2/1B; H314-3.8/3; H335  
P260-P261-P304+P340-P305+P351+P338-P405-P501a

## Zirconyl chloride octahydrate &gt; RPE-For analysis

RPE

Description ..... White yellowish powder Subst. not ppt NH<sub>4</sub>OH ..... <=1 % Assay (complexometric) ..... >=25 % Zr  
Identification ..... Positive Sulphate ..... <=500 ppm  
Heavy metals (Pb) ..... <=50 ppm Fe ..... <=100 ppm

Code	Size	Packaging	Notes
495171	250g	Glass bottle	

## Zirconyl nitrate

Zr(NO<sub>3</sub>)<sub>2</sub>.xH<sub>2</sub>O  
Molecular Weight (AN.) 231  
CAS : 14985-18-3  
EEC-N : 237-529-3

**Classification transport**  
ONU: 1477  
Transport Hazard class: 5.1  
Packing group II

 **Danger**

2.14/2; H272-3.2/2; H315-3.3/2; H319-3.8/3; H335  
P210-P221-P304+P340-P305+P351+P338-P405-P501a

## Zirconyl nitrate &gt; RE-Pure

RE

Description ..... White powder Hf ..... <= 4 %  
Identification ..... Positive Assay (gravimetric) ..... >= 99.4 %

Code	Size	Packaging	Notes
396105	50g	Glass bottle	





# CHEMICAL TABLES

TABELLE CHIMICHE / TABLES CHIMIQUES / TABLAS QUIMICAS

2

# 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	Electric charge
Second	s	Time
Dyne	dyn	Force
Dyne per centimetre	dyn/cm	Surface tension
Erg	erg	Work, energy
Farad	F	Electric capacitance
Ampere	A	Electric current
Herz	Hz	Frequency
Joule	J	Energy, work
Metre	m	Length
Micron	$\mu$ or $\mu\text{m}$	Length
Mole	mol	Amount of substance
Newton	N	Force
Pascal	Pa	Pressure
Poise	P or Po	Dynamic viscosity
Liter	L	Volume
Stokes	St	Kinematic viscosity
Kelvin	K	Temperature
Volt	V	Electric 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 billion	1 000 000 000 000	tera	T
$10^9$	billion	1 000 000 000	giga	G
$10^6$	million	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 millionth	0,000 001	micro	$\mu$
$10^{-9}$	one billionth	0,000 000 001	nano	n
$10^{-12}$	one thousand billionth	0,000 000 000 001	piko	p
$10^{-15}$	–	0,000 000 000 000 001	femto	f
$10^{-18}$	one trillionth	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 APHA (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 $\tau$ .....	Pascal (Pa)=Newton/m <sup>2</sup> (N/m <sup>2</sup> )
Velocity gradient g.....	m/s
Dynamic viscosity h.....	Pascal x second (Pa·s)
.....	Millipascal x second (mPa·s)
Kinematic viscosity $\nu$ .....	m <sup>2</sup> /s =104 Stokes
.....	mm <sup>2</sup> /s

## CGS System

Shear stress $\tau$ .....	dine /cm <sup>2</sup>
Velocity gradient g.....	cm / s
Dynamic viscosity h.....	Poise (P) = dine·s/cm <sup>2</sup> = 1 Pa
.....	Centipoise (cP)
Kinematic viscosity $\nu$ .....	Stokes (St) = 0,1 Pa·s
.....	Centistokes (cSt) = 1 mPa·s

Tab. 1 - Distilled water – specific viscosity at different temperatures <sup>(1)</sup>

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 Logarithmiche, 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

15°C d 4°C	°Bé	% NH <sub>3</sub>
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

15°C d 4°C	°Bé	% m HNO <sub>3</sub>
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

15°C d 4°C	°Bé	% m H <sub>3</sub> PO <sub>4</sub>
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

15°C d 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

15°C d 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

15°C d 4°C	°Bé	% m H <sub>2</sub> SO <sub>4</sub>
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)	Solvent	Polarity (p)	Solvent	Polarity (p)
Heptane	0.1	Diethyl ether	2.8	1,4 Dioxane	4.8
Hexane	0.1	Dichloromethane	3.1	Acetone	5.1
Petroleum ether	0.1	Octan-1-ol	3.4	Methanol	5.1
2,2,4 Trimethylpentane	0.1	1,2 Dichloroethane	3.5	Pyridine	5.3
Cyclohexane	0.2	Propan-1-ol	3.9	2-Methoxyethanol	5.5
1-Chlorobutane	1.0	Propan-2-ol	4.0	Acetonitrile	5.8
Carbon tetrachloride	1.6	Tetrahydrofuran	4.0	Acetic acid glacial	6.0
Toluene	2.4	Chloroform	4.1	Dimethylformamide	6.4
Metyl-tert butyle ether	2.5	Ethanol absolute	4.3	Dimethylsulfoxide	7.2
Benzene	2.7	Ethyl acetate	4.4	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
Bromoxylene 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 yellow 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	Methyl 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 black 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 O	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 O	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 hydrochloride 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 Eriosein 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	Euchrysin
49700		Indophenol	Indophenol blue
50040	Basic red 5	Neutral red	Toluylene red Neophospine
50240	Basic red 2	Safranin O	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 H <sub>2</sub> O	solution 62 % - with ice	- 39° C
Calcium chloride 6 H <sub>2</sub> O	solution 59 % - with ice	- 55° C
Methanol or Acetone with dry ice		- 77° C

## Molarity and normality chart for common acid and base solutions

Acid	Molarity	Normality	Volume required for a liter	
			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

Xilene	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	
																												Dimethylsulfoxide	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	
																												Xilene	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 litres
1 gallon (USA)	=	3,78533 litres
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	=	64,80 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 x 10 <sup>-2</sup>	1: 100
0,5	5	5.000					5 x 10 <sup>-3</sup>	1: 500
0,1	1	1.000					1 x 10 <sup>-3</sup>	1: 1.000
0,05	0,5	500					5 x 10 <sup>-4</sup>	1: 5.000
0,01	0,1	100					1 x 10 <sup>-4</sup>	1: 10.000
0,005	0,05	50					5 x 10 <sup>-5</sup>	1: 50.000
0,001	0,01	10	10.000				1 x 10 <sup>-5</sup>	1: 100.000
0,000.5	0,005	5	5.000				5 x 10 <sup>-6</sup>	1: 500.000
0,000.1	0,001	1	1.000				1 x 10 <sup>-6</sup>	1: 1.000.000
0,000.05	0,0005	0,5	500				5 x 10 <sup>-7</sup>	1: 5.000.000
0,000.01	0,000.1	0,1	100				1 x 10 <sup>-7</sup>	1: 10.000.000
0,000.001	0,000.01	0,01	10	10.000			1 x 10 <sup>-8</sup>	1: 100.000.000
0,000.0001	0,000.001	0,001	1	1.000	10.000		1 x 10 <sup>-9</sup>	1: 1.000.000.000
			0,1	100	100		1 x 10 <sup>-10</sup>	1: 10.000.000.000
			0,01	10	10		1 x 10 <sup>-11</sup>	1: 100.000.000.000
			0,001	1	1		1 x 10 <sup>-12</sup>	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:

$$\text{s.g.} = \frac{145}{145 - \text{degrees Baumé}}$$

For liquids less dense than water:

$$\text{s.g.} = \frac{140}{130 + \text{degrees Baumé}}$$

°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	0.1 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 : Hygroscopic
- M : Formation of an insoluble precipitation
- O : Oxidation
- P : Polymerisation

Products	Alterability	Products	Alterability	Products	Alterability
Diethylene Glycol dimethylether	O	Iodine trichloride	F	Salicylaldehyde	O-C
Diethylene Glycol monobutylether	O	Karl Fisher reagent	IG	Silver diethylcarbamate	C
Diethylene Glycol monoethylether	O	Lutidine (2,4)	C	Soda lime	A
Diethylether not stabilized	O	Magnesium perchlorate	IG	Sodium acetate anhydrous	IG
Diethylsulfate	ID-C	Magnesium peroxide	A	Sodium citrate tribasic anhydrous	IG
Dihydroxyacetone	ID-D	Methyl isobutylacetone	C	Sodium cyanide solution	A
Dimethylaminonaphtalene-5-sulfonyl chloride	ID	Methyldichloroacetate	ID	Sodium hydrate and hypochloride solution	A-O
Dimethylsulfate	ID-C	mono-Ethanolamine	C	Sodium hydrosulfite	O
Diphenylamine	C	n,n-Diethylaniline	C	Sodium hypochloride solution	A-O
Diphenyldithiocarbazide	O-C	n,n-Dimethylphenylenediamine	C	Sodium metabisulfite	O
Ergometrine maleate	A	n-Ethyl piperidine	C	Sodium methylate	ID
Ergometrine tartrate	A	Nitric acid fuming 90%	F	Sodium sulfide nonahydrate	C-IG
Ethyl formate	ID	n-Methylaniline	C	Starch solution 1%	M
Ethyl-5-methylpyridine-2	C	Orthophosphoric acid 99%	O	Strontium iodide	C
Ethylaniline	C	Orthophosphoric acid 99%	IG	Styrene	P
Ethylchloroacetate	O	p-Dimethylaminobenzaldehyde	C	Succinic anhydride	ID
Ethylene Glycol dimethylether	O	Phenol	C	Sulfuric acid 96%	C
Ethylene Glycol monoethylether	O	Phosphomolybdic acid	C	Sulphurous acid saturated solution	O
Ethylene Glycol monoethylether acetate	O	Phosphorous pentachloride	F	sym-Diphenylcarbazine	C
Ethylene Glycol monomethylether	O	Phosphorus pentoxide	IG	Sym-Tetrabromoethane	A
Formaldehyde 40% w/v	O-P	Picoline	C	Sym-Tetrachloroethane	A
Formic acid 99%	O	Piperidine	C	Tetrahydrofurfuryl alcohol	C-D
Furan	C-O	Piruvic acid	P	Tin chloride anhydrous	A
Furfural	C	Potassium ethyl xantogenate	ID	Titanium trichloride 15%	M
Furfuryl alcohol	C	Potassium metabisulfite	O	Trichloroacetic acid solution 20%	A
Gaiacol	C	p-Oxalate	C	Triphenylchloromethane	F
Hanus's reagent	A	p-phenetidin	C	Vitamin A acetate	A
Heptanal	O	Propionaldehyde	O	Vitamin A palmitate	A
Hydrazine hydroxyde	A	Propionitrile	C	Water chlorine saturated solution	A
Hydrazine solution	A	Protonaldehyde	C-O	Zinc oxide	IG
Hydrogen peroxide	A	p-Toluidine	C		
Hydrogen sulfide saturated solution	O-M	Pyridine hydrochloride	IG		
Hydroquinone monomethylether	O	Pyrrrole	C		
		Pyrrolidine	C		



## Incompatible chemical products

ACETIC ACID	Nitric acid Perchloric acid Alcohols Chromium oxide Ethylen glycol Permanganates Peroxides	CHROMIUM OXIDE	Acetic acid Alcohols Petroleum ether Canphor Glycerol Flammable liquids Naphthalin
HYDROFLUORIC ACID	Ammonia	PHOSPHORUS	Oxygenated combinations Sulphur
NITRIC ACID CONCENTRATED	Acetic acid Hydrocyanic acid Aniline Chromium oxide Hydrogen sulphide Flammable liquids and gasses	HYDROCARBONS	Bromine Chlorine Chromium oxide Fluorine Sodium peroxide
OXALIC ACID	Silver Mercury	IODINE	Acetylene Ammonia
PERCHLORIC ACID	Alcohols Acetic anhydride Bismuth and its alloys Paper Wood	FLAMMABLE LIQUIDS	Nitric acid Halogens Ammonium nitrate Chromium oxide Hydrogen peroxide Sodium peroxide
SULPHURIC ACID	Potassium chlorate Potassium perchlorate Potassium permanganate	MERCURY	Acetylene Ammonia
AMMONIA	Hydrofluoric acid Bromine Chlorine Iodine Calcium hypochlorite Mercury	ALKALY METALS	Water Halogens Carbon dioxide Carbon tetrachloride other Halogenated alkanes
AMMONIUM NITRATE	Acids Chlorates Flammable liquids Nitrates Metallic powders Flammable organic substances Sulphur	HYDROGEN PEROXIDE	Acetone Alcohols Aniline Chromium Copper Iridium Metals and metallic salts Nitromethane Organic substances Flammable substances
ANILINE	Nitric acid Hydrogen peroxide	POTASSIUM PERMANGANATE	Sulphuric acid Benzaldehyde Ethylen glycol Glycerol
SILVER	Acetylene Oxalic acid Tartaric acid Ammonium salts	COPPER	Acetylene Hydrogen peroxide
BROMINE AND CHLORINE	Acetylene Ammonia Benzene Petroleum ether Butadiene Butane Hydrogen Methane Propane Metallic powders	SODIUM PEROXIDE	Acetic acid Ethyl alcohol Methyl alcohol Acetic anhydride Benzaldehyde Ethyl acetate Ethylen glycol Furfural Carbon disulfide
CYANIDES	Acids		
CHLORATES	Acids Metallic powders Ammonium salts Flammable organic substances Sulphur		

# HAZARD STATEMENTS

## INDICAZIONI DI PERICOLO / MENTIONS DE DANGER / INDICACIONES DE PELIGRO

<b>H200</b>	Unstable explosives / Esplosivo instabile / Explosif instable / Explosivo inestable.
<b>H201</b>	Explosive; mass explosion hazard / Esplosivo; pericolo di esplosione di massa / Explosif; danger d'explosion en masse / Explosivo; peligro de explosión en masa.
<b>H202</b>	Explosive, severe projection hazard / Esplosivo; grave pericolo di proiezione / Explosif; danger sérieux de projection / Explosivo; grave peligro de proyección.
<b>H203</b>	Explosive; fire, blast or projection hazard / Esplosivo; pericolo di incendio, di spostamento d'aria o di proiezione / Explosif; danger d'incendie, d'effet de souffle ou de projection / Explosivo; peligro de incendio, de onda expansiva o de proyección.
<b>H204</b>	Fire or projection hazard / Pericolo di incendio o di proiezione / Danger d'incendie ou de projection / Peligro de incendio o de proyección.
<b>H205</b>	May mass explode in fire / Pericolo di esplosione di massa in caso d'incendio / Danger d'explosion en masse en cas d'incendie / Peligro de explosión en masa en caso de incendio.
<b>H220</b>	Extremely flammable gas / Gas altamente infiammabile / Gaz extrêmement inflammable / Gas extremadamente inflamable.
<b>H221</b>	Flammable gas / Gas infiammabile / Gaz inflammable / Gas inflamable.
<b>H222</b>	Extremely flammable aerosol / Aerosol altamente infiammabile / Aérosol extrêmement inflammable / Aerosol extremadamente inflamable.
<b>H223</b>	Flammable aerosol / Aerosol infiammabile / Aérosol inflammable / Aerosol inflamable.
<b>H224</b>	Extremely flammable liquid and vapour / Liquido e vapori altamente infiammabili / Liquide et vapeurs extrêmement inflammables / Líquido y vapores extremadamente inflamables.
<b>H225</b>	Highly flammable liquid and vapour / Liquido e vapori facilmente infiammabili / Liquide et vapeurs très inflammables / Líquido y vapores muy inflamables.
<b>H226</b>	Flammable liquid and vapour / Liquido e vapori infiammabili / Liquide et vapeurs inflammables / Líquidos y vapores inflamables.
<b>H228</b>	Flammable solid / Solido infiammabile / Matière solide inflammable / Sólido inflamable.
<b>H240</b>	Heating may cause an explosion / Rischio di esplosione per riscaldamento / Peut exploser sous l'effet de la chaleur / Peligro de explosión en caso de calentamiento.
<b>H241</b>	Heating may cause a fire or explosion / Rischio d'incendio o di esplosione per riscaldamento / Peut s'enflammer ou exploser sous l'effet de la chaleur / Peligro de incendio o explosión en caso de calentamiento.
<b>H242</b>	Heating may cause a fire / Rischio d'incendio per riscaldamento / Peut s'enflammer sous l'effet de la chaleur / Peligro de incendio en caso de calentamiento.
<b>H250</b>	Catches fire spontaneously if exposed to air / Spontaneamente infiammabile all'aria / S'enflamme spontanément au contact de l'air / Se inflama espontáneamente en contacto con el aire.
<b>H251</b>	Self-heating; may catch fire / Autoriscaldante; può infiammarsi / Matière auto-échauffante; peut s'enflammer / Se calienta espontáneamente; puede inflamarse.
<b>H252</b>	Self-heating in large quantities; may catch fire / Autoriscaldante in grandi quantità; può infiammarsi / Matière auto-échauffante en grandes quantités; peut s'enflammer / Se calienta espontáneamente en grandes cantidades; puede inflamarse.
<b>H260</b>	In contact with water releases flammable gases which may ignite spontaneously / A contatto con l'acqua libera gas infiammabili che possono infiammarsi spontaneamente / Dégage au contact de l'eau des gaz inflammables qui peuvent s'enflammer spontanément / En contacto con el agua desprende gases inflamables que pueden inflamarse espontáneamente.
<b>H261</b>	In contact with water releases flammable gases / A contatto con l'acqua libera gas infiammabili / Dégage au contact de l'eau des gaz inflammables / En contacto con el agua desprende gases inflamables.
<b>H270</b>	May cause or intensify fire; oxidiser / Può provocare o aggravare un incendio; comburente / Peut provoquer un incendie ou une explosion; comburant puissant / Puede provocar un incendio; comburente.
<b>H271</b>	May cause fire or explosion; strong oxidiser / Può provocare un incendio o un'esplosione; molto comburente / Peut aggraver un incendie; comburant / Puede provocar un incendio o una explosión; muy comburente.
<b>H272</b>	May intensify fire; oxidiser / Può aggravare un incendio; comburente / Peut provoquer ou aggraver un incendie; comburant / Puede agravar un incendio; comburente.
<b>H280</b>	Contains gas under pressure; may explode if heated / Contiene gas sotto pressione; può esplodere se riscaldato / Contient un gaz sous pression; peut exploser sous l'effet de la chaleur / Contiene gas a presión; peligro de explosión en caso de calentamiento.
<b>H281</b>	Contains refrigerated gas; may cause cryogenic burns or injury / Contiene gas refrigerato; Può provocare ustioni o lesioni criogeniche / Contient un gaz réfrigéré; peut causer des brûlures ou blessures cryogéniques / Contiene un gas refrigerado; puede provocar quemaduras o lesiones criogénicas.
<b>H290</b>	May be corrosive to metals / Può essere corrosivo per i metalli / Peut être corrosif pour les métaux / Puede ser corrosivo para los metales.
<b>H300</b>	Fatal if swallowed / Letale se ingerito / Mortel en cas d'ingestion / Mortal en caso de ingestión.
<b>H301</b>	Toxic if swallowed / Tossico se ingerito / Toxique en cas d'ingestion / Tóxico en caso de ingestión.
<b>H302</b>	Harmful if swallowed / Nocivo se ingerito / Nocif en cas d'ingestion / Nocivo en caso de ingestión.
<b>H304</b>	May be fatal if swallowed and enters airways / Può essere letale in caso di ingestione e di penetrazione nelle vie respiratorie / Peut être mortel en cas d'ingestion et de pénétration dans les voies respiratoires / Puede ser mortal en caso de ingestión y penetración en las vías respiratorias.
<b>H310</b>	Fatal in contact with skin / Letale per contatto con la pelle / Mortel par contact cutané / Mortal en contacto con la piel.
<b>H311</b>	Toxic in contact with skin / Tossico per contatto con la pelle / Toxique par contact cutané / Tóxico en contacto con la piel.
<b>H312</b>	Harmful in contact with skin / Nocivo per contatto con la pelle / Nocif par contact cutané / Nocivo en contacto con la piel.
<b>H314</b>	Causes severe skin burns and eye damage / Provoca gravi ustioni cutanee e gravi lesioni oculari / Provoque des brûlures de la peau et des lésions oculaires graves / Provoca quemaduras graves en la piel y lesiones oculares graves.

<b>H315</b>	Causes skin irritation / Provoca irritazione cutanea / Provoque une irritation cutanée / Provoca irritación cutánea.
<b>H317</b>	May cause an allergic skin reaction / Può provocare una reazione allergica cutanea / Peut provoquer une allergie cutanée / Puede provocar una reacción alérgica en la piel.
<b>H318</b>	Causes serious eye damage / Provoca gravi lesioni oculari / Provoque des lésions oculaires graves / Provoca lesiones oculares graves.
<b>H319</b>	Causes serious eye irritation / Provoca grave irritazione oculare / Provoque une sévère irritation des yeux / Provoca irritación ocular grave.
<b>H330</b>	Fatal if inhaled / Letale se inalato / Mortel par inhalation / Mortal en caso de inhalación.
<b>H331</b>	Toxic if inhaled / Tossico se inalato / Toxique par inhalation / Tóxico en caso de inhalación.
<b>H332</b>	Harmful if inhaled / Nocivo se inalato / Nocif par inhalation / Nocivo en caso de inhalación.
<b>H334</b>	May cause allergy or asthma symptoms or breathing difficulties if inhaled / Può provocare sintomi allergici o asmatici o difficoltà respiratorie se inalato / Peut provoquer des symptômes allergiques ou d'asthme ou des difficultés respiratoires par inhalation / Puede provocar síntomas de alergia o asma o dificultades respiratorias en caso de inhalación.
<b>H335</b>	May cause respiratory irritation / Può irritare le vie respiratorie / Peut irriter les voies respiratoires / Puede irritar las vías respiratorias.
<b>H336</b>	May cause drowsiness or dizziness / Può provocare sonnolenza o vertigini / Peut provoquer somnolence ou vertiges / Puede provocar somnolencia o vértigo.
<b>H340</b>	May cause genetic defects / Può provocare alterazioni genetiche / Peut induire des anomalies génétiques / Puede provocar defectos genéticos.
<b>H341</b>	Suspected of causing genetic defects / Sospettato di provocare alterazioni genetiche / Susceptible d'induire des anomalies génétiques / Se sospecha que provoca defectos genéticos.
<b>H350</b>	May cause cancer / Può provocare il cancro / Peut provoquer le cancer / Puede provocar cáncer.
<b>H351</b>	Suspected of causing cancer / Sospettato di provocare il cancro / Susceptible de provoquer le cancer / Se sospecha que provoca cáncer.
<b>H360</b>	May damage fertility or the unborn child / Può nuocere alla fertilità o al feto / Peut nuire à la fertilité ou au foetus / Puede perjudicar la fertilidad o dañar al feto.
<b>H361</b>	Suspected of damaging fertility or the unborn child / Sospettato di nuocere alla fertilità o al feto / Susceptible de nuire à la fertilité ou au foetus / Se sospecha que perjudica la fertilidad o daña al feto.
<b>H362</b>	May cause harm to breast-fed children / Può essere nocivo per i lattanti allattati al seno / Peut être nocif pour les bébés nourris au lait maternel / Puede perjudicar a los niños alimentados con leche materna.
<b>H370</b>	Causes damage to organs / Provoca danni agli organi / Risque avéré d'effets graves pour les organes / Provoca daños en los órganos.
<b>H371</b>	May cause damage to organs / Può provocare danni agli organi / Risque présumé d'effets graves pour les organes / Puede provocar daños en los órganos.
<b>H372</b>	Causes damage to organs through prolonged or repeated exposure / exposure cause the hazard / Provoca danni agli organi in caso di esposizione prolungata o ripetuta / esposizione comporta il medesimo pericolo / Risque avéré d'effets graves pour les organes à la suite d'expositions répétées ou d'une exposition prolongée / Provoca daños en los órganos tras exposiciones prolongadas o repetidas.
<b>H373</b>	May cause damage to organs through prolonged or repeated exposure / exposure cause the hazard / Può provocare danni agli organi in caso di esposizione prolungata o ripetuta / esposizione comporta il medesimo pericolo / Risque présumé d'effets graves pour les organes à la suite d'expositions répétées ou d'une exposition prolongée / Puede provocar daños en los órganos tras exposiciones prolongadas o repetidas.
<b>H400</b>	Very toxic to aquatic life / Molto tossico per gli organismi acquatici / Très toxique pour les organismes aquatiques / Muy tóxico para los organismos acuáticos.
<b>H410</b>	Very toxic to aquatic life with long lasting effects / Molto tossico per gli organismi acquatici con effetti di lunga durata / Très toxique pour les organismes aquatiques, entraîne des effets néfastes à long terme / Muy tóxico para los organismos acuáticos, con efectos nocivos duraderos.
<b>H411</b>	Toxic to aquatic life with long lasting effects / Tossico per gli organismi acquatici con effetti di lunga durata / Toxique pour les organismes aquatiques, entraîne des effets néfastes à long terme / Tóxico para los organismos acuáticos, con efectos nocivos duraderos.
<b>H412</b>	Harmful to aquatic life with long lasting effects / Nocivo per gli organismi acquatici con effetti di lunga durata / Nocif pour les organismes aquatiques, entraîne des effets néfastes à long terme / Nocivo para los organismos acuáticos, con efectos nocivos duraderos.
<b>H413</b>	May cause long lasting harmful effects to aquatic life / Può essere nocivo per gli organismi acquatici con effetti di lunga durata / Peut être nocif à long terme pour les organismes aquatiques / Puede ser nocivo para los organismos acuáticos, con efectos nocivos duraderos.

# PRECAUTIONARY STATEMENTS

## CONSIGLI DI PRUDENZA / CONSEILS DE PRUDENCE / CONSEJOS DE PRUDENCIA

<b>P101</b>	If medical advice is needed, have product container or label at hand / In caso di consultazione di un medico, tenere a disposizione il contenitore o l'etichetta del prodotto / En cas de consultation d'un médecin, garder à disposition le récipient ou l'étiquette / Si se necesita consejo médico, tener a mano el envase o la etiqueta.
<b>P102</b>	Keep out of reach of children / Tenere fuori dalla portata dei bambini / Tenir hors de portée des enfants / Mantener fuera del alcance de los niños.
<b>P103</b>	Read label before use / Leggere l'etichetta prima dell'uso / Lire l'étiquette avant utilisation / Leer la etiqueta antes del uso.
<b>P201</b>	Obtain special instructions before use / Procurarsi istruzioni specifiche prima dell'uso / Se procurer les instructions avant utilisation / Pedir instrucciones especiales antes del uso.
<b>P202</b>	Do not handle until all safety precautions have been read and understood / Non manipolare prima di avere letto e compreso tutte le avvertenze / Ne pas manipuler avant d'avoir lu et compris toutes les précautions de sécurité / No manipular la sustancia antes de haber leído y comprendido todas las instrucciones de seguridad.
<b>P210</b>	Keep away from heat/sparks/open flames/hot surfaces. - No smoking / Tenere lontano da fonti di calore/scintille/fiamme libere/superfici riscaldate. - Non fumare / Tenir à l'écart de la chaleur/des étincelles/des flammes nues/des surfaces chaudes. - Ne pas fumer / Mantener alejado de fuentes de calor, chispas, llama abierta o superficies calientes. - No fumar.
<b>P211</b>	Do not spray on an open flame or other ignition source / Non vaporizzare su una fiamma libera o altra fonte di accensione / Ne pas vaporiser sur une flamme nue ou sur toute autre source d'ignition / No pulverizar sobre una llama abierta u otra fuente de ignición.
<b>P220</b>	Keep/Store away from clothing/... /combustible materials / Tenere/conservare lontano da indumenti/.../materiali combustibili / Tenir/stocker à l'écart des vêtements/... /matières combustibles / Mantener o almacenar alejado de la ropa/... /materiales combustibles.
<b>P221</b>	Take any precaution to avoid mixing with combustibles... / Prendere ogni precauzione per evitare di miscelare con sostanze combustibili... / Prendre toutes précautions pour éviter de mélanger avec des matières combustibles... / Tomar todas las precauciones necesarias para no mezclar con materias combustibles...
<b>P222</b>	Do not allow contact with air / Evitare il contatto con l'aria / Ne pas laisser au contact de l'air / No dejar que entre en contacto con el aire.
<b>P223</b>	Keep away from any possible contact with water, because of violent reaction and possible flash fire / Evitare qualsiasi contatto con l'acqua: pericolo di reazione violenta e di infiammazione spontanea / Éviter tout contact avec l'eau, à cause du risque de réaction violente et d'inflammation spontanée / Mantener alejado de cualquier posible contacto con el agua, pues reacciona violentamente y puede provocar una llamarada.
<b>P230</b>	Keep wetted with... / Mantenere umido con... / Maintenir humidifié avec... / Mantener humedecido con...
<b>P231</b>	Handle under inert gas / Manipolare in atmosfera di gas inerte / Manipuler sous gaz inerte / Manipular en gas inerte.
<b>P232</b>	Protect from moisture / Proteggere dall'umidità / Protéger de l'humidité / Proteger de la humedad.
<b>P231+P232</b>	Handle under inert gas. Protect from moisture / Manipolare in atmosfera di gas inerte. Tenere al riparo dall'umidità / Manipuler sous gaz inerte. Protéger de l'humidité / Manipular en gas inerte. Proteger de la humedad.
<b>P233</b>	Keep container tightly closed / Tenere il recipiente ben chiuso / Maintenir le récipient fermé de manière étanche / Mantener el recipiente herméticamente cerrado.
<b>P234</b>	Keep only in original container / Conservare soltanto nel contenitore originale / Conserver uniquement dans le récipient d'origine / Conservar únicamente en el recipiente original.
<b>P235</b>	Keep cool / Conservare in luogo fresco / Tenir au frais / Mantener en lugar fresco.
<b>P235+P410</b>	Keep cool. Protect from sunlight / Tenere in luogo fresco. Proteggere dai raggi solari / Tenir au frais. Protéger du rayonnement solaire / Conservar en un lugar fresco. Proteger de la luz del sol.
<b>P240</b>	Ground/bond container and receiving equipment / Mettere a terra/massa il contenitore e il dispositivo ricevente / Mise à la terre/liaison équipotentielle du récipient et du matériel de réception / Conectar a tierra/enlace equipotencial del recipiente y del equipo de recepción.
<b>P241</b>	Use explosion-proof electrical/ventilating/lighting/.../equipment / Utilizzare impianti elettrici/di ventilazione/d'illuminazione/.../a prova di esplosione / Utiliser du matériel électrique/de ventilation/d'éclairage/... /antidéflagrant / Utilizar un material eléctrico, de ventilación o de iluminación/.../antideflagrante.
<b>P242</b>	Use only non-sparking tools / Utilizzare solo utensili antiscintillamento / Ne pas utiliser d'outils produisant des étincelles / Utilizar únicamente herramientas que no produzcan chispas.
<b>P243</b>	Take precautionary measures against static discharge / Prendere precauzioni contro le scariche elettrostatiche / Prendre des mesures de précaution contre les décharges électrostatiques / Tomar medidas de precaución contra descargas electrostáticas.
<b>P244</b>	Keep reduction valves free from grease and oil / Mantenere le valvole di riduzione libere da grasso e olio / S'assurer de l'absence de graisse ou d'huile sur les soupapes de réduction / Mantener las válvulas de reducción limpias de grasa y aceite.
<b>P250</b>	Do not subject to grinding/shock/.../friction / Evitare le abrasioni /gli urti/.../gli attriti / Éviter les abrasions/les chocs/... /les frottements / Evitar la abrasión/el choque/.../la fricción.
<b>P251</b>	Pressurized container: Do not pierce or burn, even after use / Recipiente sotto pressione: non perforare né bruciare, neppure dopo l'uso / Récipient sous pression: ne pas perforer, ni brûler, même après usage / Recipiente a presión: no perforar ni quemar, aun después del uso.
<b>P260</b>	Do not breathe dust/fume/gas/mist/vapours/spray / Non respirare la polvere/i fumi/i gas/la nebbia/i vapori/gli aerosol / Ne pas respirer les poussières/fumées/gaz/brouillards/vapeurs/aérosols / No respirar el polvo/el humo/el gas/la niebla/los vapores/el aerosol.

<b>P261</b>	Avoid breathing dust/fume/gas/mist/vapours/spray / Evitare di respirare la polvere/i fumi/i gas/la nebbia/i vapori/gli aerosol / Éviter de respirer les poussières/fumées/gaz/brouillards/vapeurs/aérosols / Evitar respirar el polvo/el humo/el gas/la niebla/los vapores/el aerosol.
<b>P262</b>	Do not get in eyes, on skin, or on clothing / Evitare il contatto con gli occhi, la pelle o gli indumenti / Éviter tout contact avec les yeux, la peau ou les vêtements / Evitar el contacto con los ojos, la piel o la ropa.
<b>P263</b>	Avoid contact during pregnancy/while nursing / Evitare il contatto durante la gravidanza/l'allattamento / Éviter tout contact avec la substance au cours de la grossesse/pendant l'allaitement / Evitar el contacto durante el embarazo/la lactancia.
<b>P264</b>	Wash ... thoroughly after handling / Lavare accuratamente ... dopo l'uso / Se laver... soigneusement après manipulation / Lavarse ... concienzudamente tras la manipulación.
<b>P270</b>	Do not eat, drink or smoke when using this product / Non mangiare, né bere, né fumare durante l'uso / Ne pas manger, boire ou fumer en manipulant ce produit / No comer, beber ni fumar durante su utilización.
<b>P271</b>	Use only outdoors or in a well-ventilated area / Utilizzare soltanto all'aperto o in luogo ben ventilato / Utiliser seulement en plein air ou dans un endroit bien ventilé / Utilizar únicamente en exteriores o en un lugar bien ventilado.
<b>P272</b>	Contaminated work clothing should not be allowed out of the workplace / Gli indumenti da lavoro contaminati non devono essere portati fuori dal luogo di lavoro / Les vêtements de travail contaminés ne devraient pas sortir du lieu de travail / Las prendas de trabajo contaminadas no podrán sacarse del lugar de trabajo.
<b>P273</b>	Avoid release to the environment / Non disperdere nell'ambiente / Éviter le rejet dans l'environnement / Evitar su liberación al medio ambiente.
<b>P280</b>	Wear protective gloves/protective clothing/eye protection/face protection / Indossare guanti/indumenti protettivi/Proteggere gli occhi/il viso / Porter des gants de protection/des vêtements de protection/un équipement de protection des yeux/du visage / Llevar guantes/prendas/gafas/máscara de protección.
<b>P281</b>	Use personal protective equipment as required / Utilizzare il dispositivo di protezione individuale richiesto / Utiliser l'équipement de protection individuel requis / Utilizar el equipo de protección individual obligatorio.
<b>P282</b>	Wear cold insulating gloves/face shield/eye protection / Utilizzare guanti termici/schermo facciale/Proteggere gli occhi / Porter des gants isolants contre le froid/un équipement de protection du visage/des yeux / Llevar guantes que aislen del frío/gafas/máscara.
<b>P283</b>	Wear fire/flare resistant/retardant clothing / Indossare indumenti completamente ignifughi o in tessuti ritardanti di fiamma / Porter des vêtements résistant au feu/aux flammes/ignifuges / Llevar prendas ignifugas/resistentes al fuego/resistentes a las llamas.
<b>P284</b>	Wear respiratory protection / Utilizzare un apparecchio respiratorio / Porter un équipement de protection respiratoire / Llevar equipo de protección respiratoria.
<b>P285</b>	In case of inadequate ventilation wear respiratory protection / In caso di ventilazione insufficiente utilizzare un apparecchio respiratorio / Lorsque la ventilation du local est insuffisante, porter un équipement de protection respiratoire / En caso de ventilación insuficiente, llevar equipo de protección respiratoria.
<b>P301</b>	IF SWALLOWED: / IN CASO DI INGESTIONE: / EN CAS D'INGESTION: / EN CASO DE INGESTIÓN:
<b>P301+P310</b>	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician / IN CASO DI INGESTIONE: contattare immediatamente un CENTRO ANTIVELENI o un medico / EN CAS D'INGESTION: appeler immédiatement un CENTRE ANTIPOISON ou un médecin / EN CASO DE INGESTIÓN: Llamar inmediatamente a un CENTRO DE INFORMACIÓN TOXICOLÓGICA o a un médico.
<b>P301+P312</b>	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell / IN CASO DI INGESTIONE: accompagnata da malessere: contattare un CENTRO ANTIVELENI o un medico / EN CAS D'INGESTION: appeler un CENTRE ANTIPOISON ou un médecin en cas de malaise / EN CASO DE INGESTIÓN: Llamar a un CENTRO DE INFORMACIÓN TOXICOLÓGICA o a un médico si se encuentra mal.
<b>P301+P330+P331</b>	IF SWALLOWED: rinse mouth. Do NOT induce vomiting / IN CASO DI INGESTIONE: sciacquare la bocca. NON provocare il vomito / EN CAS D'INGESTION: rincer la bouche. NE PAS faire vomir / EN CASO DE INGESTIÓN: Enjuagarse la boca. NO provocar el vómito.
<b>P302</b>	IF ON SKIN: / IN CASO DI CONTATTO CON LA PELLE: / EN CAS DE CONTACT AVEC LA PEAU: / EN CASO DE CONTACTO CON LA PIEL:
<b>P302+P334</b>	IF ON SKIN: Gently wash with plenty of soap and water / IN CASO DI CONTATTO CON LA PELLE: immergere in acqua fredda/avvolgere con un bendaggio umido / EN CAS DE CONTACT AVEC LA PEAU: rincer à l'eau fraîche/poser une compresse humide / EN CASO DE CONTACTO CON LA PIEL: Sumergir en agua fresca/aplicar compresas húmedas.
<b>P302+P350</b>	IF ON SKIN: Wash with plenty of soap and water / IN CASO DI CONTATTO CON LA PELLE: lavare delicatamente e abbondantemente con acqua e sapone / EN CAS DE CONTACT AVEC LA PEAU: laver avec précaution et abondamment à l'eau et au savon / EN CASO DE CONTACTO CON LA PIEL: Lavar suavemente con agua y jabón abundantes.
<b>P302+P352</b>	IF ON SKIN: Immerse in cool water/wrap in wet bandages / IN CASO DI CONTATTO CON LA PELLE: lavare abbondantemente con acqua e sapone / EN CAS DE CONTACT AVEC LA PEAU: laver abondamment à l'eau et au savon / EN CASO DE CONTACTO CON LA PIEL: Lavar con agua y jabón abundantes..
<b>P303</b>	IF ON SKIN (or hair): / IN CASO DI CONTATTO CON LA PELLE (o con i capelli) / EN CAS DE CONTACT AVEC LA PEAU (ou les cheveux): / EN CASO DE CONTACTO CON LA PIEL (o el pelo):
<b>P303+P361+P353</b>	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower / IN CASO DI CONTATTO CON LA PELLE (o con i capelli): togliersi di dosso immediatamente tutti gli indumenti contaminati. Sciacquare la pelle/fare una doccia / EN CAS DE CONTACT AVEC LA PEAU (ou les cheveux): enlever immédiatement les vêtements contaminés. Rincer la peau à l'eau/se doucher / EN CASO DE CONTACTO CON LA PIEL (o el pelo): Quitarse inmediatamente las prendas contaminadas. Aclararse la piel con agua o ducharse.
<b>P304</b>	IF INHALED: / IN CASO DI INALAZIONE: / EN CAS D'INHALATION: / EN CASO DE INHALACIÓN:
<b>P304+P340</b>	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing / IN CASO DI INALAZIONE: trasportare l'infortunato all'aria aperta e mantenerlo a riposo in posizione che favorisca la respirazione / EN CAS D'INHALATION: transporter la victime à l'extérieur et la maintenir au repos dans une position où elle peut confortablement respirer / EN CASO DE INHALACIÓN: Transportar a la víctima al exterior y mantenerla en repos en una posición confortable para respirar.

<b>P304+P341</b>	IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing / IN CASO DI INALAZIONE: se la respirazione è difficile, trasportare l'infortunato all'aria aperta e mantenerlo a riposo in posizione che favorisca la respirazione / EN CAS D'INHALATION: s'il y a difficulté à respirer, transporter la victime à l'extérieur et la maintenir au repos dans une position où elle peut confortablement respirer / EN CASO DE INHALACIÓN: Si respira con dificultad, transportar a la víctima al exterior y mantenerla en reposo en una posición confortable para respirar.
<b>P305</b>	IF IN EYES / IN CASO DI CONTATTO CON GLI OCCHI / EN CAS DE CONTACT AVEC LES YEUX / EN CASO DE CONTACTO CON LOS OJOS:
<b>P305+P351+P338</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing / IN CASO DI CONTATTO CON GLI OCCHI: sciacquare accuratamente per parecchi minuti. Togliere le eventuali lenti a contatto se è agevole farlo. Continuare a sciacquare / EN CAS DE CONTACT AVEC LES YEUX: rincer avec précaution à l'eau pendant plusieurs minutes. Enlever les lentilles de contact si la victime en porte et si elles peuvent être facilement enlevées. Continuer à rincer / EN CASO DE CONTACTO CON LOS OJOS: Aclarar cuidadosamente con agua durante varios minutos. Quitar las lentes de contacto, si lleva y resulta fácil. Seguir aclarando.
<b>P306</b>	IF ON CLOTHING / IN CASO DI CONTATTO CON GLI INDUMENTI / EN CAS DE CONTACT AVEC LES VÊTEMENTS / EN CASO DE CONTACTO CON LA ROPA:
<b>P306+P360</b>	IF ON CLOTHING: rinse immediately contaminated clothing and skin with plenty of water before removing clothes / IN CASO DI CONTATTO CON GLI INDUMENTI: sciacquare immediatamente e abbondantemente gli indumenti contaminati e la pelle prima di togliersi gli indumenti / EN CAS DE CONTACT AVEC LES VÊTEMENTS: rincer immédiatement et abondamment avec de l'eau les vêtements contaminés et la peau avant de les enlever / EN CASO DE CONTACTO CON LA ROPA: Aclarar inmediatamente con agua abundante las prendas y la piel contaminadas antes de quitarse la ropa.
<b>P307</b>	IF exposed / IN CASO di esposizione / EN CAS d'exposition / EN CASO DE exposición:
<b>P307+P311</b>	IF exposed: Call a POISON CENTER or doctor/physician / IN CASO di esposizione, contattare un CENTRO ANTIVELENI o un medico / EN CAS d'exposition: appeler un CENTRE ANTIPOISON ou un médecin / EN CASO DE exposición: Llamar a un CENTRO DE INFORMACIÓN TOXICOLÓGICA o a un médico.
<b>P308</b>	IF exposed or concerned / IN CASO di esposizione o di possibile esposizione / EN CAS d'exposition prouvée ou suspectée / EN CASO DE exposición manifiesta o presunta:
<b>P308+P313</b>	IF exposed or concerned: Get medical advice/attention / IN CASO di esposizione o di possibile esposizione, consultare un medico / EN CAS d'exposition prouvée ou suspectée: consulter un médecin / EN CASO DE exposición manifiesta o presunta: Consultar a un médico.
<b>P309</b>	IF exposed or if you feel unwell: / IN CASO di esposizione o di malessere: / EN CAS d'exposition ou d'un malaise: / EN CASO DE exposición o malestar:
<b>P309+P311</b>	IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician / IN CASO di esposizione o di malessere, contattare un CENTRO ANTIVELENI o un medico / EN CAS d'exposition ou de malaise: appeler un CENTRE ANTIPOISON ou un médecin / EN CASO DE exposición o si se encuentra mal: Llamar a un CENTRO DE INFORMACIÓN TOXICOLÓGICA o a un médico.
<b>P310</b>	Immediately call a POISON CENTER or doctor/physician / Contattare immediatamente un CENTRO ANTIVELENI o un medico / Appeler immédiatement un CENTRE ANTIPOISON ou un médecin / Llamar inmediatamente a un CENTRO DE INFORMACION TOXICOLOGICA o a un médico.
<b>P311</b>	Call a POISON CENTER or doctor/physician / Contattare un CENTRO ANTIVELENI o un medico / Appeler un CENTRE ANTIPOISON ou un médecin / Llamar a un CENTRO DE INFORMACION TOXICOLOGICA o a un médico.
<b>P312</b>	Call a POISON CENTER or doctor/physician if you feel unwell / In caso di malessere, contattare un CENTRO ANTIVELENI o un medico / Appeler un CENTRE ANTIPOISON ou un médecin en cas de malaise / Llamar a un CENTRO DE INFORMACION TOXICOLOGICA o a un médico en caso de malestar.
<b>P313</b>	Get medical advice/attention / Consultare un medico / Consulter un médecin / Consultar a un médico.
<b>P314</b>	Get medical advice/attention if you feel unwell / In caso di malessere, consultare un medico / Consulter un médecin en cas de malaise / Consultar a un médico en caso de malestar.
<b>P315</b>	Get immediate medical advice/attention / Consultare immediatamente un medico / Consulter immédiatement un médecin / Consultar a un médico inmediatamente.
<b>P320</b>	Specific treatment is urgent (see... on this label) / Trattamento specifico urgente (vedere... su questa etichetta) / Un traitement spécifique est urgent (voir... sur cette étiquette) / Se necesita urgentemente un tratamiento específico (ver... en esta etiqueta).
<b>P321</b>	Specific treatment (see ... on this label) / Trattamento specifico (vedere... su questa etichetta) / Traitement spécifique (voir... sur cette étiquette) / Se necesita un tratamiento específico (ver... en esta etiqueta).
<b>P322</b>	Specific measures (see... on this label) / Misure specifiche (vedere... su questa etichetta) / Mesures spécifiques (voir... sur cette étiquette) / Se necesitan medidas específicas (ver... en esta etiqueta).
<b>P330</b>	Rinse mouth / Sciacquare la bocca / Rincer la bouche / Enjuagarse la boca.
<b>P331</b>	Do NOT induce vomiting / NON provocare il vomito / NE PAS faire vomir / NO provocar el vómito.
<b>P332</b>	If skin irritation occurs / In caso di irritazione della pelle / En cas d'irritation cutanée / En caso de irritación cutánea:
<b>P332+P313</b>	If skin irritation occurs: Get medical advice/attention / In caso di irritazione della pelle: consultare un medico / En cas d'irritation cutanée: consulter un médecin / En caso de irritación cutánea: Consultar a un médico.
<b>P333</b>	If skin irritation or rash occurs / In caso di irritazione o eruzione della pelle / En cas d'irritation ou d'éruption cutanée / En caso de irritación o erupción cutánea:
<b>P333+P313</b>	If skin irritation or rash occurs: Get medical advice/attention / In caso di irritazione o eruzione della pelle: consultare un medico / En cas d'irritation ou d'éruption cutanée: consulter un médecin / En caso de irritación o erupción cutánea: Consultar a un médico.
<b>P334</b>	Immerse in cool water/wrap in wet bandages / Immergere in acqua fredda/avvolgere con un bendaggio umido / Rincer à l'eau fraîche/poser une compresse humide / Sumergir en agua fresca/aplicar compresas húmedas.
<b>P335</b>	Brush off loose particles from skin / Rimuovere le particelle depositate sulla pelle / Enlever avec précaution les particules déposées sur la peau / Sacudir las partículas que se hayan depositado en la piel.
<b>P335+P334</b>	Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages / Rimuovere le particelle depositate sulla pelle. Immergere in acqua fredda/avvolgere con un bendaggio umido / Enlever avec précaution les particules déposées sur la peau. Rincer à l'eau fraîche/poser une compresse humide / Sacudir las partículas que se hayan depositado en la piel. Sumergir en agua fresca/aplicar compresas húmedas.

<b>P336</b>	Thaw frosted parts with lukewarm water. Do no rub affected area / Sgelare le parti congelate usando acqua tiepida. Non sfregare la parte interessata / Dégeler les parties gelées avec de l'eau tiède. Ne pas frotter les zones touchées / Descongelar las partes heladas con agua tibia. No frotar la zona afectada.
<b>P337</b>	If eye irritation persists / Se l'irritazione degli occhi persiste / Si l'irritation oculaire persiste / Si persiste la irritación ocular:
<b>P337+P313</b>	If eye irritation persists: Get medical advice/attention / Se l'irritazione degli occhi persiste, consultare un medico. / Si l'irritation oculaire persiste: consulter un médecin / Si persiste la irritación ocular: Consultar a un médico.
<b>P338</b>	Remove contact lenses, if present and easy to do. Continue rinsing / Togliere le eventuali lenti a contatto se è agevole farlo. Continuare a sciacquare / Enlever les lentilles de contact si la victime en porte et si elles peuvent être facilement enlevées. Continuer à rincer / Quitar las lentes de contacto, si lleva y resulta fácil. Seguir aclarando.
<b>P340</b>	Remove victim to fresh air and keep at rest in a position comfortable for breathing / Trasportare l'infortunato all'aria aperta e mantenerlo a riposo in posizione che favorisca la respirazione / Transporter la victime à l'extérieur et la maintenir au repos dans une position où elle peut confortablement respirer / Transportar a la víctima al exterior y mantenerla en repos en una posición confortable para respirar.
<b>P341</b>	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing / Se la respirazione è difficile, trasportare l'infortunato all'aria aperta e mantenerlo a riposo in posizione che favorisca la respirazione / S'il y a difficulté à respirer, transporter la victime à l'extérieur et la maintenir au repos dans une position où elle peut confortablement respirer / Si respira con dificultad, transportar a la víctima al exterior y mantenerla en repos en una posición confortable para respirar.
<b>P342</b>	If experiencing respiratory symptoms / In caso di sintomi respiratori / En cas de symptômes respiratoires / En caso de síntomas respiratorios:
<b>P342+P311</b>	If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician / In caso di sintomi respiratori: contattare un CENTRO ANTIVELENI o un medico / En cas de symptômes respiratoires: appeler un CENTRE ANTIPOISON ou un médecin / En caso de síntomas respiratorios: Llamar a un CENTRO DE INFORMACIÓN TOXICOLÓGICA o a un médico.
<b>P350</b>	Gently wash with plenty of soap and water / Lavare delicatamente e abbondantemente con acqua e sapone / Laver avec précaution et abondamment à l'eau et au savon / Lavar suavemente con agua y jabón abundantes.
<b>P351</b>	Rinse cautiously with water for several minutes / Sciacquare accuratamente per parecchi minuti / Rincer avec précaution à l'eau pendant plusieurs minutes / Aclarar cuidadosamente con agua durante varios minutos.
<b>P352</b>	Wash with plenty of soap and water / Lavare abbondantemente con acqua e sapone / Laver abondamment à l'eau et au savon / Lavar con agua y jabón abundantes.
<b>P353</b>	Rinse skin with water/shower / Sciacquare la pelle/fare una doccia / Rincer la peau à l'eau/se doucher / Aclararse la piel con agua/ducharse.
<b>P360</b>	Rinse immediately contaminated clothing and skin with plenty of water before removing clothes / Sciacquare immediatamente e abbondantemente gli indumenti contaminati e la pelle prima di togliersi gli indumenti / Rincer immédiatement et abondamment avec de l'eau les vêtements contaminés et la peau avant de les enlever / Aclarar inmediatamente con agua abundante las prendas y la piel contaminadas antes de quitarse la ropa.
<b>P361</b>	Remove/Take off immediately all contaminated clothing / Togliersi di dosso immediatamente tutti gli indumenti contaminati / Enlever immédiatement les vêtements contaminés / Quitarse inmediatamente las prendas contaminadas.
<b>P362</b>	Take off contaminated clothing and wash before reuse / Togliersi di dosso gli indumenti contaminati e lavarli prima di indossarli nuovamente / Enlever les vêtements contaminés et les laver avant réutilisation / Quitarse las prendas contaminadas y lavarlas antes de volver a usarlas.
<b>P363</b>	Wash contaminated clothing before reuse / Lavare gli indumenti contaminati prima di indossarli nuovamente / Laver les vêtements contaminés avant réutilisation / Lavar las prendas contaminadas antes de volver a usarlas.
<b>P370</b>	In case of fire: / In caso di incendio: / En cas d'incendie: / En caso de incendio:
<b>P370+P376</b>	In case of fire: Stop leak if safe to do so / In caso di incendio: bloccare la perdita se non c'è pericolo / En cas d'incendie: obturer la fuite si cela peut se faire sans danger / En caso de incendio: Detener la fuga, si no hay peligro en hacerlo.
<b>P370+P378</b>	In case of fire: Use ... for extinction / In caso di incendio: estinguere con... / En cas d'incendie: utiliser... pour l'extinction / En caso de incendio: Utilizar ... para apagarlo.
<b>P370+P380</b>	In case of fire: Evacuate area / Evacuare la zona in caso di incendio / En cas d'incendie: évacuer la zone / En caso de incendio: Evacuar la zona.
<b>P370+P380+P375</b>	In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion / In caso di incendio: evacuare la zona. Rischio di esplosione. Utilizzare i mezzi estinguenti a grande distanza / En cas d'incendie: évacuer la zone. Combattre l'incendie à distance à cause du risque d'explosion / En caso de incendio: Evacuar la zona. Luchar contra el incendio a distancia, dado el riesgo de explosión.
<b>P371</b>	In case of major fire and large quantities / In caso di incendio grave e di quantità rilevanti / En cas d'incendie important et s'il s'agit de grandes quantités / En caso de incendio importante y en grandes cantidades:
<b>P371+P380+P375</b>	In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion / In caso di incendio grave e di grandi quantità: evacuare la zona. Rischio di esplosione. Utilizzare i mezzi estinguenti a grande distanza / En cas d'incendie important et s'il s'agit de grandes quantités: évacuer la zone. Combattre l'incendie à distance à cause du risque d'explosion / En caso de incendio importante y en grandes cantidades: Evacuar la zona. Luchar contra el incendio a distancia, dado el riesgo de explosión.
<b>P372</b>	Explosion risk in case of fire / Rischio di esplosione in caso di incendio / Risque d'explosion en cas d'incendie / Riesgo de explosión en caso de incendio.
<b>P373</b>	DO NOT fight fire when fire reaches explosives / NON utilizzare mezzi estinguenti se l'incendio raggiunge materiali esplosivi / NE PAS combattre l'incendie lorsque le feu atteint les explosifs / NO luchar contra el incendio cuando el fuego llega a los explosivos.
<b>P374</b>	Fight fire with normal precautions from a reasonable distance / Utilizzare i mezzi estinguenti con le precauzioni abituali a distanza ragionevole / Combattre l'incendie à distance en prenant les précautions normales / Luchar contra el incendio desde una distancia razonable, tomando las precauciones habituales.
<b>P375</b>	Fight fire remotely due to the risk of explosion / Rischio di esplosione. Utilizzare i mezzi estinguenti a grande distanza / Combattre l'incendie à distance à cause du risque d'explosion / Luchar contra el incendio a distancia, dado el riesgo de explosión.
<b>P376</b>	Stop leak if safe to do so / Bloccare la perdita se non c'è pericolo / Obturer la fuite si cela peut se faire sans danger / Detener la fuga, si no hay peligro en hacerlo.

<b>P377</b>	Leaking gas fire: Do not extinguish, unless leak can be stopped safely / In caso d'incendio dovuto a perdita di gas, non estinguere a meno che non sia possibile bloccare la perdita senza pericolo / Fuite de gaz enflammé, pas éteindre si la fuite ne peut pas être arrêtée sans danger / Fuga de gas en llamas: No apagar, salvo si la fuga puede detenerse sin peligro.
<b>P378</b>	Use ... for extinction / Estinguere con... / Utiliser... pour l'extinction / Utilizar ... para apagarlo.
<b>P380</b>	Evacuate area / Evacuare la zona / Évacuer la zone / Evacuar la zona.
<b>P381</b>	Eliminate all ignition sources if safe to do so / Eliminare ogni fonte di accensione se non c'è pericolo / Éliminer toutes les sources d'ignition si cela est faisable sans danger / Eliminar todas las fuentes de ignición si no hay peligro en hacerlo.
<b>P390</b>	Absorb spillage to prevent material damage / Assorbire la fuoriuscita per evitare danni materiali / Absorber toute substance répandue pour éviter qu'elle attaque les matériaux environnants / Absorber el vertido para que no dañe otros materiales.
<b>P391</b>	Collect spillage / Raccogliere il materiale fuoriuscito / Recueillir le produit répandu / Recoger el vertido.
<b>P401</b>	Store ... / Conservare ... / Stocker... / Almacenar ...
<b>P402</b>	Store in a dry place / Conservare in luogo asciutto / Stocker dans un endroit sec / Almacenar en un lugar seco.
<b>P402+P404</b>	Store in a dry place. Store in a closed container / Conservare in luogo asciutto e in recipiente chiuso / Stocker dans un endroit sec. Stocker dans un récipient fermé / Almacenar en un lugar seco. Almacenar en un recipiente cerrado.
<b>P403</b>	Store in a well-ventilated place / Conservare in luogo ben ventilato / Stocker dans un endroit bien ventilé / Almacenar en un lugar bien ventilado.
<b>P403+P233</b>	Store in a well-ventilated place. Keep container tightly closed / Tenere il recipiente ben chiuso e in luogo ben ventilato / Stocker dans un endroit bien ventilé. Maintenir le récipient fermé de manière étanche / Almacenar en un lugar bien ventilado. Mantener el recipiente cerrado herméticamente.
<b>P403+P235</b>	Store in a well-ventilated place. Keep cool / Conservare in luogo fresco e ben ventilato / Stocker dans un endroit bien ventilé. Tenir au frais / Almacenar en un lugar bien ventilado. Mantener en lugar fresco.
<b>P404</b>	Store in a closed container / Conservare in un recipiente chiuso / Stocker dans un récipient fermé / Almacenar en un recipiente cerrado.
<b>P405</b>	Store locked up / Conservare sotto chiave / Garder sous clef / Guardar bajo llave.
<b>P406</b>	Store in corrosive resistant/... container with a resistant inner liner / Conservare in recipiente resistente alla corrosione/... provvisto di rivestimento interno resistente / Stocker dans un récipient résistant à la corrosion/récipient en... avec doublure intérieure résistant à la corrosion / Almacenar en un recipiente resistente a la corrosión/... con revestimiento interior resistente.
<b>P407</b>	Maintain air gap between stacks/pallets / Mantenere uno spazio libero tra gli scaffali/i pallet / Maintenir un intervalle d'air entre les piles/palettes / Dejar una separación entre los bloques/los palés de carga.
<b>P410</b>	Protect from sunlight / Proteggere dai raggi solari / Protéger du rayonnement solaire / Proteger de la luz del sol.
<b>P410+P403</b>	Protect from sunlight. Store in a well-ventilated place / Proteggere dai raggi solari. Conservare in luogo ben ventilato / Protéger du rayonnement solaire. Stocker dans un endroit bien ventilé / Proteger de la luz del sol. Almacenar en un lugar bien ventilado.
<b>P410+P412</b>	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F / Proteggere dai raggi solari. Non esporre a temperature superiori a 50 °C/122 °F / Protéger du rayonnement solaire. Ne pas exposer à une température supérieure à 50 °C/122 °F / Proteger de la luz del sol. No exponer a temperaturas superiores a 50 °C/122 °F.
<b>P411</b>	Store at temperatures not exceeding ... °C/... °F / Conservare a temperature non superiori a... °C/... °F / Stocker à une température ne dépassant pas... °C/... °F / Almacenar a temperaturas no superiores a ... °C/... °F.
<b>P411+P235</b>	Store at temperatures not exceeding ... °C/... °F. Keep cool / Conservare in luogo fresco a temperature non superiori a... °C/... °F / Stocker à une température ne dépassant pas °C/ °F. Tenir au frais / Almacenar a temperaturas no superiores a ... °C/... °F. Mantener en lugar fresco.
<b>P412</b>	Do not expose to temperatures exceeding 50 °C/122 °F / Non esporre a temperature superiori a 50 °C/122 °F / Ne pas exposer à une température supérieure à 50 °C/122 °F / No exponer a temperaturas superiores a 50 °C/122 °F.
<b>P413</b>	Store bulk masses greater than ... kg/... lbs at temperatures not exceeding ... °C/... °F / Conservare le rinfuse di peso superiore a ... kg/... lb a temperature non superiori a ... °C/... °F / Stocker les quantités en vrac de plus de... kg/... lb à une température ne dépassant pas... °C/... °F / Almacenar las cantidades a granel superiores a ... kg/... lbs a temperaturas no superiores a ... °C/... °F.
<b>P420</b>	Store away from other materials / Conservare lontano da altri materiali / Stocker à l'écart des autres matières / Almacenar alejado de otros materiales.
<b>P422</b>	Store contents under ... / Conservare sotto... / Stocker le contenu sous... / Almacenar el contenido en ...
<b>P501</b>	Dispose of contents/container to ... / Smaltire il prodotto/recipiente in ... / Éliminer le contenu/récipient dans... / Eliminar el contenido/el recipiente en ...



# ADDITIONAL STATEMENTS

## INFORMAZIONI SUPPLEMENTARI SUI PERICOLI / INFORMATIONS ADDITIONNELLES / INDICACIONES DE PELIGRO SUPLEMENTARIA

<b>EUH 001</b>	Explosive when dry / Esplosivo allo stato secco / Explosif à l'état sec / Explosivo en estado seco.
<b>EUH 006</b>	Explosive with or without contact with air / Esplosivo a contatto o senza contatto con l'aria / Danger d'explosion en contact ou sans contact avec l'air / Explosivo en contacto o sin contacto con el aire.
<b>EUH 014</b>	Reacts violently with water / Reagisce violentemente con l'acqua / Réagit violemment au contact de l'eau / Reacciona violentamente con el agua.
<b>EUH 018</b>	In use, may form flammable/explosive vapour-air mixture / Durante l'uso può formarsi una miscela vapore-ariaesplosiva/inflammabile / Lors de l'utilisation, formation possible de mélange vapeur-air inflammable/explosif / Al usarlo pueden formarse mezclas aire-vapor explosivas o inflamables.
<b>EUH 019</b>	May form explosive peroxides / Può formare perossidi esplosivi / Peut former des peroxydes explosifs / Puede formar peróxidos explosivos.
<b>EUH 029</b>	Contact with water liberates toxic gas / A contatto con l'acqua libera un gas tossico / Au contact de l'eau, dégage des gaz toxiques / En contacto con agua libera gases tóxicos.
<b>EUH 031</b>	Contact with acids liberates toxic gas / A contatto con acidi libera gas tossici / Au contact d'un acide, dégage un gaz toxique / En contacto con ácidos libera gases tóxicos.
<b>EUH 032</b>	Contact with acids liberates very toxic gas / A contatto con acidi libera gas molto tossici / Au contact d'un acide, dégage un gaz très toxique / En contacto con ácidos libera gases muy tóxicos.
<b>EUH 044</b>	Risk of explosion if heated under confinement / Rischio di esplosione per riscaldamento in ambiente confinato / Risque d'explosion si chauffé en ambiance confinée / Riesgo de explosión al calentarlo en ambiente confinado.
<b>EUH 059</b>	Hazardous to the ozone layer / Pericoloso per lo strato di ozono / Dangereux pour la couche d'ozone / Peligroso para la capa de ozono.
<b>EUH 066</b>	Repeated exposure may cause skin dryness or cracking / L'esposizione ripetuta può provocare secchezza o screpolature della pelle / L'exposition répétée peut provoquer dessèchement ou gerçures de la peau / La exposición repetida puede provocar sequedad o formación de grietas en la piel.
<b>EUH 070</b>	Toxic by eye contact / Tossico per contatto oculare / Toxique par contact oculaire / Tóxico en contacto con los ojos.
<b>EUH 071</b>	Corrosive to the respiratory tract / Corrosivo per le vie respiratorie / Corrosif pour les voies respiratoires / Corrosivo para las vías respiratorias.
<b>EUH 201</b>	Contains lead. Should not be used on surfaces liable to be chewed or sucked by children / Contiene piombo. Non utilizzare su oggetti che possono essere masticati o succhiati dai bambini / Contient du plomb. Ne pas utiliser sur les objets susceptibles d'être mâchés ou sucés par des enfants / Contiene plomo. No utilizar en objetos que los niños puedan masticar o chupar.
<b>EUH 201A</b>	Warning! Contains lead / Attenzione! Contiene piombo / Attention ! Contient du plomb / ¡Atención! Contiene plomo.
<b>EUH 202</b>	Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children / Cianoacrilato. Pericolo. Incolla la pelle e gli occhi in pochi secondi. Tenere fuori dalla portata dei bambini / Cyanoacrylate. Danger. Colle à la peau et aux yeux en quelques secondes. À conserver hors de portée des enfants / Cianoacrilato. Peligro. Se adhiere a la piel y a los ojos en pocos segundos. Mantener fuera del alcance de los niños.
<b>EUH 203</b>	Contains chromium (VI). May produce an allergic reaction / Contiene cromo (VI). Può provocare una reazione allergica / Contient du chrome (VI). Peut produire une réaction allergique / Contiene cromo (VI). Puede provocar una reacción alérgica.
<b>EUH 204</b>	Contains isocyanates. May produce an allergic reaction / Contiene isocianati. Può provocare una reazione allergica / Contient des isocyanates. Peut produire une réaction allergique / Contiene isocianatos. Puede provocar una reacción alérgica.
<b>EUH 205</b>	Contains epoxy constituents. May produce an allergic reaction / Contiene componenti epossidici. Può provocare una reazione allergica / Contient des composés époxydiques. Peut produire une réaction allergique / Contiene componentes epoxídicos. Puede provocar una reacción alérgica.
<b>EUH 206</b>	Warning! Do not use together with other products. May release dangerous gases (chlorine) / Attenzione! Non utilizzare in combinazione con altri prodotti. Possono liberarsi gas pericolosi (cloro) / Attention! Ne pas utiliser en combinaison avec d'autres produits. Peut libérer des gaz dangereux (chlore) / ¡Atención! No utilizar junto con otros productos. Puede desprender gases peligrosos (cloro).
<b>EUH 207</b>	Warning! Contains cadmium. Dangerous fumes are formed during use. See information supplied by the manufacturer. Comply with the safety instructions / Attenzione! Contiene cadmio. Durante l'uso si sviluppano fumi pericolosi. Leggere le informazioni fornite dal fabbricante. Rispettare le disposizioni di sicurezza / Attention! Contient du cadmium. Des fumées dangereuses se développent pendant l'utilisation. Voir les informations fournies par le fabricant. Respectez les consignes de sécurité / ¡Atención! Contiene cadmio. Durante su utilización se desprenden vapores peligrosos. Ver la información facilitada por el fabricante. Seguir las instrucciones de seguridad.
<b>EUH 208</b>	Contains (name of sensitising substance). May produce an allergic reaction / Contiene (denominazione della sostanza sensibilizzante). Può provocare una reazione allergica / Contient (nom de la substance sensibilisante). Peut produire une réaction allergique / Contiene (nombre de la sustancia sensibilizante). Puede provocar una reacción alérgica.
<b>EUH 209</b>	Can become highly flammable in use / Può diventare facilmente infiammabile durante l'uso / Peut devenir facilement inflammable en cours d'utilisation / Puede inflamarse fácilmente al usarlo
<b>EUH 209A</b>	Can become flammable in use / Può diventare infiammabile durante l'uso / Peut devenir inflammable en cours d'utilisation / Puede inflamarse al usarlo.
<b>EUH 201</b>	Safety data sheet available on request / Scheda dati di sicurezza disponibile su richiesta / Fiche de données de sécurité disponible sur demande / Puede solicitarse la ficha de datos de seguridad.
<b>EUH 401</b>	To avoid risks to human health and the environment, comply with the instructions for use / Per evitare rischi per la salute umana e per l'ambiente, seguire le istruzioni per l'uso / Respectez les instructions d'utilisation pour éviter les risques pour la santé humaine et l'environnement / A fin de evitar riesgos para las personas y el medio ambiente, siga las instrucciones de uso.

# RISK PHRASES

## FRASI DI RISCHIO / PHRASES DE RISQUE / FRASES DE RIESGO

<b>R1</b>	Explosive when dry. / Esplosivo allo stato secco. / Explosif à l'état sec. / Explosivo en estado seco.
<b>R2</b>	Risk of explosion by shock, friction, fire or other sources of ignition. / Rischio di esplosione per urto, sfregamento, fuoco o altre sorgenti d'ignizione. / Risque d'explosion par le choc, la friction, le feu ou d'autres sources d'ignition. / Riesgo de explosión por choque, fricción, fuego u otras fuentes de ignición.
<b>R3</b>	Extreme risk of explosion by shock, friction, fire or other sources of ignition. / Elevato rischio di esplosione per urto, sfregamento, fuoco o altre sorgenti d'ignizione. / Grand risque d'explosion par le choc, la friction, le feu ou d'autres sources d'ignition. / Alto riesgo de explosión por choque, fricción, fuego u otras fuentes de ignición.
<b>R4</b>	Forms very sensitive explosive metallic compounds. / Forma composti metallici esplosivi molto sensibili. / Forme des composés métalliques explosifs très sensibles. / Forma compuestos metálicos explosivos muy sensibles.
<b>R5</b>	Heating may cause an explosion. / Pericolo di esplosione per riscaldamento. / Danger d'explosion sous l'action de la chaleur. / Peligro de explosión en caso de calentamiento.
<b>R6</b>	Explosive with or without contact with air. / Esplosivo a contatto o senza contatto con l'aria. / Danger d'explosion en contact ou sans contact avec l'air. / Peligro de explosión, en contacto o sin contacto con el aire.
<b>R7</b>	May cause fire. / Può provocare un incendio. / Peut provoquer un incendie. / Puede provocar incendios.
<b>R8</b>	Contact with combustible material may cause fire. / Può provocare l'accensione di materie combustibili. / Favorise l'inflammation des matières combustibles. / Peligro de fuego en contacto con materias combustibles.
<b>R9</b>	Explosive when mixed with combustible material. / Esplosivo in miscela con materie combustibili. / Peut exploser en mélange avec des matières combustibles. / Peligro de explosión al mezclar con materias combustibles.
<b>R10</b>	Flammable. / Infiammabile. / Inflammable. / Inflamable.
<b>R11</b>	Highly flammable. / Facilmente infiammabile. / Facilement inflammable. / Fácilmente inflamable.
<b>R12</b>	Extremely flammable. / Estremamente infiammabile. / Extrêmement inflammable. / Extremadamente inflamable.
<b>R14</b>	Reacts violently with water. / Reagisce violentemente con l'acqua. / Réagit violemment au contact de l'eau. / Reacciona violentamente con el agua.
<b>R14/15</b>	Reacts violently with water, liberating extremely flammable gases. / Reagisce violentemente con l'acqua liberando gas estremamente infiammabili. / Réagit violemment au contact de l'eau en dégageant des gaz extrêmement inflammables. / Reacciona violentamente con el agua, liberando gases extremadamente inflamables.
<b>R15</b>	Contact with water liberates extremely flammable gases. / A contatto con l'acqua libera gas estremamente infiammabili. / Au contact de l'eau dégage des gaz extrêmement inflammables. / Reacciona con el agua liberando gases extremadamente inflamables.
<b>R15/29</b>	Contact with water liberates toxic, extremely flammable gas. / A contatto con acqua libera gas tossici e estremamente infiammabili. / Au contact de l'eau dégage des gaz toxiques et extrêmement inflammables. / En contacto con el agua, libera gases tóxicos y extremadamente inflamables.
<b>R16</b>	Explosive when mixed with oxidizing substances. / Pericolo di esplosione se mescolato con sostanze comburenti. / Peut exploser en mélange avec des substances comburantes. / Puede explosionar en mezcla con sustancias comburentes.
<b>R17</b>	Spontaneously flammable in air. / Spontaneamente infiammabile all'aria. / Spontanément inflammable à l'air. / Se inflama espontáneamente en contacto con el aire.
<b>R18</b>	In use, may form flammable explosive vapour-air mixture. / Durante l'uso può formare con aria miscele esplosive/ infiammabili. / Lors de l'utilisation, formation possible de mélange vapeur-air inflammable/explosif. / Al usarlo pueden formarse mezclas aire-vapor explosivas/inflamables.
<b>R19</b>	May form explosive peroxides. / Può formare perossidi esplosivi. / Peut former des peroxydes explosifs. / Puede formar peróxidos explosivos.
<b>R20</b>	Harmful by inhalation. / Nocivo per inalazione. / Nocif par inhalation. / Nocivo por inhalación.
<b>R20/21</b>	Harmful by inhalation and in contact with skin. / Nocivo per inalazione e contatto con la pelle. / Nocif par inhalation et par contact avec la peau. / Nocivo por inhalación y en contacto con la piel.
<b>R20/21/22</b>	Harmful by inhalation, in contact with skin and if swallowed. / Nocivo per inalazione, contatto con la pelle e per ingestione. / Nocif par inhalation, par contact avec la peau et par ingestion. / Nocivo por inhalación, por ingestión y en contacto con la piel.
<b>R20/22</b>	Harmful by inhalation and if swallowed. / Nocivo per inalazione e ingestione. / Nocif par inhalation et par ingestion. / Nocivo por inhalación y por ingestión.
<b>R21</b>	Harmful in contact with skin. / Nocivo a contatto con la pelle. / Nocif par contact avec la peau. / Nocivo en contacto con la piel.
<b>R21/22</b>	Harmful in contact with skin and if swallowed. / Nocivo a contatto con la pelle e per ingestione. / Nocif par contact avec la peau et par ingestion. / Nocivo en contacto con la piel y por ingestión.
<b>R22</b>	Harmful if swallowed. / Nocivo per ingestione. / Nocif en cas d'ingestion. / Nocivo por ingestión.
<b>R23</b>	Toxic by inhalation. / Tossico per inalazione. / Toxique par inhalation. / Tóxico por inhalación.
<b>R23/24</b>	Toxic by inhalation and in contact with skin. / Tossico per inalazione e contatto con la pelle. / Toxique par inhalation et par contact avec la peau. / Tóxico por inhalación y en contacto con la piel.
<b>R23/24/25</b>	Toxic by inhalation, in contact with skin and if swallowed. / Tossico per inalazione, contatto con la pelle e per ingestione. / Toxique par inhalation, par contact avec la peau et par ingestion. / Tóxico por inhalación, por ingestión y en contacto con la piel.
<b>R23/25</b>	Toxic by inhalation and if swallowed. / Tossico per inalazione e ingestione. / Toxique par inhalation et ingestion. / Tóxico por inhalación y por ingestión.
<b>R24</b>	Toxic in contact with skin. / Tossico a contatto con la pelle. / Toxique par contact avec la peau. / Tóxico en contacto con la piel.
<b>R24/25</b>	Toxic in contact with skin and if swallowed. / Tossico a contatto con la pelle e per ingestione. / Toxique par contact avec la peau et par ingestion. / Tóxico en contacto con la piel y por ingestión.
<b>R25</b>	Toxic if swallowed. / Tossico per ingestione. / Toxique en cas d'ingestion. / Tóxico por ingestión.
<b>R26</b>	Very toxic by inhalation. / Molto tossico per inalazione. / Très toxique par inhalation. / Muy tóxico por inhalación.
<b>R26/27</b>	Very toxic by inhalation and in contact with skin. / Molto tossico per inalazione e contatto con la pelle. / Très toxique par inhalation et par contact avec la peau. / Muy tóxico por inhalación y en contacto con la piel.
<b>R26/27/28</b>	Very toxic by inhalation, in contact with skin and if swallowed. / Molto tossico per inalazione, contatto con la pelle e per ingestione. / Très toxique par inhalation, par contact avec la peau et par ingestion. / Muy tóxico por inhalación, por ingestión y en contacto con la piel.

<b>R26/28</b>	Very toxic by inhalation and if swallowed. / Molto tossico per inalazione e per ingestione. / Très toxique par inhalation et par ingestion. / Muy tóxico por inhalación y por ingestión.
<b>R27</b>	Very toxic in contact with skin. / Molto tossico a contatto con la pelle. / Très toxique par contact avec la peau. / Muy tóxico en contacto con la piel.
<b>R27/28</b>	Very toxic in contact with skin and if swallowed. / Molto tossico a contatto con la pelle e per ingestione. / Très toxique par contact avec la peau et par ingestion. / Muy tóxico en contacto con la piel y por ingestión.
<b>R28</b>	Very toxic if swallowed. / Molto tossico per ingestione. / Très toxique en cas d'ingestion. / Muy tóxico por ingestión.
<b>R29</b>	Contact with water liberates toxic gas. / A contatto con l'acqua libera gas tossici. / Au contact de l'eau, dégage des gaz toxiques. / En contacto con agua libera gases tóxicos.
<b>R30</b>	Can become highly flammable in use. / Può divenire facilmente infiammabile durante l'uso. / Peut devenir facilement inflammable pendant l'utilisation. / Puede inflamarse fácilmente al usarlo.
<b>R31</b>	Contact with acids liberates toxic gas. / A contatto con acidi libera gas tossico. / Au contact d'un acide, dégage un gaz toxique. / En contacto con ácidos libera gases tóxicos.
<b>R32</b>	Contact with acids liberates very toxic gas. / A contatto con acidi libera gas molto tossico. / Au contact d'un acide, dégage un gaz très toxique. / En contacto con ácidos libera gases muy tóxicos.
<b>R33</b>	Danger of cumulative effects. / Pericolo di effetti cumulativi. / Danger d'effets cumulatifs. / Peligro de efectos acumulativos.
<b>R34</b>	Causes burns. / Provoca ustioni. / Provoque des brûlures. / Provoca quemaduras.
<b>R35</b>	Causes severe burns. / Provoca gravi ustioni. / Provoque de graves brûlures. / Provoca quemaduras graves.
<b>R36</b>	Irritating to eyes. / Irritante per gli occhi. / Irritant pour les yeux. / Irrita los ojos.
<b>R36/37</b>	Irritating to eyes and respiratory system. / Irritante per gli occhi e le vie respiratorie. / Irritant pour les yeux et les voies respiratoires. / Irrita los ojos y las vías respiratorias.
<b>R36/37/38</b>	Irritating to eyes, respiratory system and skin. / Irritante per gli occhi, le vie respiratorie e la pelle. / Irritant pour les yeux, les voies respiratoires et la peau. / Irrita los ojos, la piel y las vías respiratorias.
<b>R36/38</b>	Irritating to eyes and skin. / Irritante per gli occhi e la pelle. / Irritant pour les yeux et la peau. / Irrita los ojos y la piel.
<b>R37</b>	Irritating to respiratory system. / Irritante per le vie respiratorie. / Irritant pour les voies respiratoires. / Irrita las vías respiratorias.
<b>R37/38</b>	Irritating to respiratory system and skin. / Irritante per le vie respiratorie e la pelle. / Irritant pour les voies respiratoires et la peau. / Irrita las vías respiratorias y la piel.
<b>R38</b>	Irritating to skin. / Irritante per la pelle. / Irritant pour la peau. / Irrita la piel.
<b>R39</b>	Danger of very serious irreversible effects. / Pericolo di effetti irreversibili molto gravi. / Danger d'effets irréversibles très graves. / Peligro de efectos irreversibles muy graves.
<b>R39/23</b>	Toxic: danger of very serious irreversible effects through inhalation. / Tossico: pericolo di effetti irreversibili molto gravi per inalazione. / Toxique: danger d'effets irréversibles très graves par inhalation. / Tóxico: peligro de efectos irreversibles muy graves por inhalación.
<b>R39/23/24</b>	Toxic: danger of very serious irreversible effects through inhalation and in contact with skin. / Tossico: pericolo di effetti irreversibili molto gravi per inalazione e a contatto con la pelle. / Toxique: danger d'effets irréversibles très graves par inhalation et par contact avec la peau. / Tóxico: peligro de efectos irreversibles muy graves por inhalación y contacto con la piel.
<b>R39/23/24/25</b>	Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed. / Tossico: pericolo di effetti irreversibili molto gravi per inalazione, a contatto con la pelle e per ingestione. / Toxique: danger d'effets irréversibles très graves par inhalation, par contact avec la peau et par ingestion. / Tóxico: peligro de efectos irreversibles muy graves por inhalación, contacto con la piel e ingestión.
<b>R39/23/25</b>	Toxic: danger of very serious irreversible effects through inhalation and if swallowed. / Tossico: pericolo di effetti irreversibili molto gravi per inalazione ed ingestione. / Toxique: danger d'effets irréversibles très graves par inhalation et par ingestion. / Tóxico: peligro de efectos irreversibles muy graves por inhalación e ingestión.
<b>R39/24</b>	Toxic: danger of very serious irreversible effects in contact with skin. / Tossico: pericolo di effetti irreversibili molto gravi a contatto con la pelle. / Toxique: danger d'effets irréversibles très graves par contact avec la peau. / Tóxico: peligro de efectos irreversibles muy graves por contacto con la piel.
<b>R39/24/25</b>	Toxic: danger of very serious irreversible effects in contact with skin and if swallowed. / Tossico: pericolo di effetti irreversibili molto gravi a contatto con la pelle e per ingestione. / Toxique: danger d'effets irréversibles très graves par contact avec la peau et par ingestion. / Tóxico: peligro de efectos irreversibles muy graves por contacto con la piel e ingestión.
<b>R39/25</b>	Toxic: danger of very serious irreversible effects if swallowed. / Tossico: pericolo di effetti irreversibili molto gravi per ingestione. / Toxique: danger d'effets irréversibles très graves par ingestion. / Tóxico: peligro de efectos irreversibles muy graves por ingestión.
<b>R39/26</b>	Very toxic: danger of very serious irreversible effects through inhalation. / Molto tossico: pericolo di effetti irreversibili molto gravi per inalazione. / Très toxique: danger d'effets irréversibles très graves par inhalation. / Muy tóxico: peligro de efectos irreversibles muy graves por inhalación.
<b>R39/26/27</b>	Very toxic: danger of very serious irreversible effects through inhalation and in contact with skin. / Molto tossico: pericolo di effetti irreversibili molto gravi per inalazione e a contatto con la pelle. / Très toxique: danger d'effets irréversibles très graves par inhalation et par contact avec la peau. / Muy tóxico: peligro de efectos irreversibles muy graves por inhalación y contacto con la piel.
<b>R39/26/27/28</b>	Very toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed. / Molto tossico: pericolo di effetti irreversibili molto gravi per inalazione, a contatto con la pelle e per ingestione. / Très toxique: danger d'effets irréversibles très graves par inhalation, par contact avec la peau et par ingestion. / Muy tóxico: peligro de efectos irreversibles muy graves por inhalación, contacto con la piel e ingestión.
<b>R39/26/28</b>	Very toxic: danger of very serious irreversible effects through inhalation and if swallowed. / Molto tossico: pericolo di effetti irreversibili molto gravi per inalazione ed ingestione. / Très toxique: danger d'effets irréversibles très graves par inhalation et par ingestion. / Muy tóxico: peligro de efectos irreversibles muy graves por inhalación e ingestión.
<b>R39/27</b>	Very toxic: danger of very serious irreversible effects in contact with skin. / Molto tossico: pericolo di effetti irreversibili molto gravi a contatto con la pelle. / Très toxique: danger d'effets irréversibles très graves par contact avec la peau. / Muy tóxico: peligro de efectos irreversibles muy graves por contacto con la piel.
<b>R39/27/28</b>	Very toxic: danger of very serious irreversible effects in contact with skin and if swallowed. / Molto tossico: pericolo di effetti irreversibili molto gravi a contatto con la pelle e per ingestione. / Très toxique: danger d'effets irréversibles très graves par contact avec la peau et par ingestion. / Muy tóxico: peligro de efectos irreversibles muy graves por contacto con la piel e ingestión.

<b>R39/28</b>	Very toxic: danger of very serious irreversible effects if swallowed. / Molto tossico: pericolo di effetti irreversibili molto gravi per ingestione. / Très toxique: danger d'effets irréversibles très graves par ingestion. / Muy tóxico: peligro de efectos irreversibles muy graves por ingestión.
<b>R40</b>	Limited evidence of a carcinogenic effect. / Possibilità di effetti cancerogeni - prove insufficienti. / Effet cancérigène suspecté - preuves insuffisantes. / Posibles efectos cancerígenos.
<b>R41</b>	Risk of serious damage to eyes. / Rischio di gravi lesioni oculari. / Risque de lésions oculaires graves. / Riesgo de lesiones oculares graves.
<b>R42</b>	May cause sensitization by inhalation. / Può provocare sensibilizzazione per inalazione. / Peut entraîner une sensibilisation par inhalation. / Posibilidad de sensibilización por inhalación.
<b>R42/43</b>	May cause sensitization by inhalation and skin contact. / Può provocare sensibilizzazione per inalazione e contatto con la pelle. / Peut entraîner une sensibilisation par inhalation et par contact avec la peau. / Posibilidad de sensibilización por inhalación y por contacto con la piel.
<b>R43</b>	May cause sensitization by skin contact. / Può provocare sensibilizzazione per contatto con la pelle. / Peut entraîner une sensibilisation par contact avec la peau. / Posibilidad de sensibilización en contacto con la piel.
<b>R44</b>	Risk of explosion if heated under confinement. / Rischio di esplosione per riscaldamento in ambiente confinato. / Risque d'explosion si chauffé en ambiance confinée. / Riesgo de explosión al calentarlo en ambiente confinado.
<b>R45</b>	May cause cancer. / Può provocare il cancro. / Peut provoquer le cancer. / Puede causar cáncer.
<b>R46</b>	May cause heritable genetic damage. / Può provocare alterazioni genetiche ereditarie. / Peut provoquer des altérations génétiques héréditaires. / Puede causar alteraciones genéticas hereditarias.
<b>R48</b>	Danger of serious damage to health by prolonged exposure. / Pericolo di gravi danni per la salute in caso di esposizione prolungata. / Risque d'effets graves pour la santé en cas d'exposition prolongée. / Riesgo de efectos graves para la salud en caso de exposición prolongada.
<b>R48/20</b>	Harmful: danger of serious damage to health by prolonged exposure through inhalation. / Nocivo: pericolo di gravi danni per la salute in caso di esposizione prolungata per inalazione. / Nocif: risque d'effets graves pour la santé en cas d'exposition prolongée par inhalation. / Nocivo: riesgo de efectos graves para la salud en caso de exposición prolongada por inhalación.
<b>R48/20/21</b>	Harmful: danger of serious damage to health by prolonged exposure through inhalation and in contact with skin. / Nocivo: pericolo di gravi danni alla salute in caso di esposizione prolungata per inalazione e a contatto con la pelle. / Nocif: risque d'effets graves pour la santé en cas d'exposition prolongée par inhalation et par contact avec la peau. / Nocivo: riesgo de efectos graves para la salud en caso de exposición prolongada por inhalación y contacto con la piel.
<b>R48/20/21/22</b>	Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed. / Nocivo: pericolo di gravi danni alla salute in caso di esposizione prolungata per inalazione, a contatto con la pelle e per ingestione. / Nocif: risque d'effets graves pour la santé en cas d'exposition prolongée par inhalation, par contact avec la peau et par ingestion. / Nocivo: riesgo de efectos graves para la salud en caso de exposición prolongada por inhalación, contacto con la piel e ingestión.
<b>R48/20/22</b>	Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed. / Nocivo: pericolo di gravi danni alla salute in caso di esposizione prolungata per inalazione e ingestione. / Nocif: risque d'effets graves pour la santé en cas d'exposition prolongée par inhalation et par ingestion. / Nocivo: riesgo de efectos graves para la salud en caso de exposición prolongada por inhalación e ingestión.
<b>R48/21</b>	Harmful: danger of serious damage to health by prolonged exposure in contact with skin. / Nocivo: pericolo di gravi danni alla salute in caso di esposizione prolungata a contatto con la pelle. / Nocif: risque d'effets graves pour la santé en cas d'exposition prolongée par contact avec la peau. / Nocivo: riesgo de efectos graves para la salud en caso de exposición prolongada por contacto con la piel.
<b>R48/21/22</b>	Harmful: danger of serious damage to health by prolonged exposure in contact with skin and if swallowed. / Nocivo: pericolo di gravi danni alla salute in caso di esposizione prolungata a contatto con la pelle e per ingestione. / Nocif: risque d'effets graves pour la santé en cas d'exposition prolongée par contact avec la peau et par ingestion. / Nocivo: riesgo de efectos graves para la salud en caso de exposición prolongada por contacto con la piel e ingestión.
<b>R48/22</b>	Harmful: danger of serious damage to health by prolonged exposure if swallowed. / Nocivo: pericolo di gravi danni alla salute in caso di esposizione prolungata per ingestione. / Nocif: risque d'effets graves pour la santé en cas d'exposition prolongée par ingestion. / Nocivo: riesgo de efectos graves para la salud en caso de exposición prolongada por ingestión.
<b>R48/23</b>	Toxic: danger of serious damage to health by prolonged exposure through inhalation. / Tossico: pericolo di gravi danni alla salute in caso di esposizione prolungata per inalazione. / Toxique: risque d'effets graves pour la santé en cas d'exposition prolongée par inhalation. / Tóxico: riesgo de efectos graves para la salud en caso de exposición prolongada por inhalación.
<b>R48/23/24</b>	Toxic: danger of serious damage to health by prolonged exposure through inhalation and in contact with skin. / Tossico: pericolo di gravi danni alla salute in caso di esposizione prolungata per inalazione e a contatto con la pelle. / Toxique: risque d'effets graves pour la santé en cas d'exposition prolongée par inhalation et par contact avec la peau. / Tóxico: riesgo de efectos graves para la salud en caso de exposición prolongada por inhalación y contacto con la piel.
<b>R48/23/24/25</b>	Toxic: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed. / Tossico: pericolo di gravi danni alla salute in caso di esposizione prolungata per inalazione, a contatto con la pelle e per ingestione. / Toxique: risque d'effets graves pour la santé en cas d'exposition prolongée par inhalation, par contact avec la peau et par ingestion. / Tóxico: riesgo de efectos graves para la salud en caso de exposición prolongada por inhalación, contacto con la piel e ingestión.
<b>R48/23/25</b>	Toxic: danger of serious damage to health by prolonged exposure through inhalation and if swallowed. / Tossico: pericolo di gravi danni alla salute in caso di esposizione prolungata per inalazione ed ingestione. / Toxique: risque d'effets graves pour la santé en cas d'exposition prolongée par inhalation et par ingestion. / Tóxico: riesgo de efectos graves para la salud en caso de exposición prolongada por inhalación e ingestión.
<b>R48/24</b>	Toxic: danger of serious damage to health by prolonged exposure in contact with skin. / Tossico: pericolo di gravi danni alla salute in caso di esposizione prolungata a contatto con la pelle. / Toxique: risque d'effets graves pour la santé en cas d'exposition prolongée par contact avec la peau. / Tóxico: riesgo de efectos graves para la salud en caso de exposición prolongada por contacto con la piel.
<b>R48/24/25</b>	Toxic: danger of serious damage to health by prolonged exposure in contact with skin and if swallowed. / Tossico: pericolo di gravi danni alla salute in caso di esposizione prolungata a contatto con la pelle e per ingestione. / Toxique: risque d'effets graves pour la santé en cas d'exposition prolongée par contact avec la peau et par ingestion. / Tóxico: riesgo de efectos graves para la salud en caso de exposición prolongada por contacto con la piel e ingestión.

<b>R48/25</b>	Toxic: danger of serious damage to health by prolonged exposure if swallowed. / Tossico: pericolo di gravi danni alla salute in caso di esposizione prolungata per ingestione. / Toxique: risque d'effets graves pour la santé en cas d'exposition prolongée par ingestion. / Tóxico: riesgo de efectos graves para la salud en caso de exposición prolongada por ingestión.
<b>R49</b>	May cause cancer by inhalation. / Può provocare il cancro per inalazione. / Peut provoquer le cancer par inhalation. / Puede causar cáncer por inhalación.
<b>R50</b>	Very toxic to aquatic organisms. / Altamente tossico per gli organismi acquatici. / Très toxique pour les organismes aquatiques. / Muy tóxico para los organismos acuáticos.
<b>R50/53</b>	Very toxic to aquatic organisms. may cause long-term adverse effects in the aquatic environment. / Altamente tossico per gli organismi acquatici, può provocare a lungo termine effetti negativi per l'ambiente acquatico. / Très toxique pour les organismes aquatiques, peut entraîner des effets néfastes à long terme pour l'environnement aquatique. / Muy tóxico para los organismos acuáticos, puede provocar a largo plazo efectos negativos en el medio ambiente acuático.
<b>R51</b>	Toxic to aquatic organisms. / Tossico per gli organismi acquatici. / Toxique pour les organismes aquatiques. / Tóxico para los organismos acuáticos.
<b>R51/53</b>	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. / Tossico per gli organismi acquatici, può provocare a lungo termine effetti negativi per l'ambiente acquatico. / Toxique pour les organismes aquatiques, peut entraîner des effets néfastes à long terme pour l'environnement aquatique. / Tóxico para los organismos acuáticos, puede provocar a largo plazo efectos negativos en el medio ambiente acuático.
<b>R52</b>	Harmful to aquatic organisms. / Nocivo per gli organismi acquatici. / Nocif pour les organismes aquatiques. / Nocivo para los organismos acuáticos.
<b>R52/53</b>	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. / Nocivo per gli organismi acquatici, può provocare a lungo termine effetti negativi per l'ambiente acquatico. / Nocif pour les organismes aquatiques, peut entraîner des effets néfastes à long terme pour l'environnement aquatique. / Nocivo para los organismos acuáticos, puede provocar a largo plazo efectos negativos en el medio ambiente acuático.
<b>R53</b>	May cause long-term adverse effects in the aquatic environment. / Può provocare a lungo termine effetti negativi per l'ambiente acquatico. / Peut entraîner des effets néfastes à long terme pour l'environnement aquatique. / Puede provocar a largo plazo efectos negativos en el medio ambiente acuático.
<b>R54</b>	Toxic to flora. / Tossico per la flora. / Toxique pour la flore. / Tóxico para la flora.
<b>R55</b>	Toxic to fauna. / Tossico per la fauna. / Toxique pour la faune. / Tóxico para la fauna.
<b>R56</b>	Toxic to soil organisms. / Tossico per gli organismi del terreno. / Toxique pour les organismes du sol. / Tóxico para los organismos del suelo.
<b>R57</b>	Toxic to bees. / Tossico per le api. / Toxique pour les abeilles. / Tóxico para las abejas.
<b>R58</b>	May cause long-term adverse effects in the environment. / Può provocare a lungo termine effetti negativi per l'ambiente. / Peut entraîner des effets néfastes à long terme pour l'environnement. / Puede provocar a largo plazo efectos negativos en el medio ambiente.
<b>R59</b>	Dangerous for the ozone layer. / Pericoloso per lo strato di ozono. / Dangereux pour la couche d'ozone. / Peligroso para la capa de ozono.
<b>R60</b>	May impair fertility. / Può ridurre la fertilità. / Peut altérer la fertilité. / Puede perjudicar la fertilidad.
<b>R61</b>	May cause harm to the unborn child. / Può danneggiare i bambini non ancora nati. / Risque pendant la grossesse d'effets néfastes pour l'enfant. / Riesgo durante el embarazo de efectos adversos para el feto.
<b>R62</b>	Possible risk of impaired fertility. / Possibile rischio di ridotta fertilità. / Risque possible d'altération de la fertilité. / Posible riesgo de perjudicar la fertilidad.
<b>R63</b>	Possible risk of harm to the unborn child. / Possibile rischio di danni ai bambini non ancora nati. / Risque possible pendant la grossesse d'effets néfastes pour l'enfant. / Posible riesgo durante el embarazo de efectos adversos para el feto.
<b>R64</b>	May cause harm to breastfed babies. / Possibile rischio per i bambini allattati al seno. / Risque possible pour les bébés nourris au lait maternel. / Puede perjudicar a los niños alimentados con leche materna.
<b>R65</b>	Harmful: May cause lung damage if swallowed. / Nocivo: può causare danni ai polmoni in caso di ingestione. / Nocif: peut provoquer une atteinte des poumons en cas d'ingestion. / Nocivo: si se ingiere puede causar daño pulmonar.
<b>R66</b>	Repeated exposure may cause skin dryness or cracking. / L'esposizione ripetuta può provocare secchezza e screpolature della pelle. / L'exposition répétée peut provoquer dessèchement ou gerçures de la peau. / La exposición repetida puede provocar sequedad o formación de grietas en la piel.
<b>R67</b>	Vapours may cause drowsiness and dizziness. / L'inalazione dei vapori può provocare sonnolenza e vertigini. / L'inhalation de vapeurs peut provoquer somnolence et vertiges. / La inhalación de vapores puede provocar somnolencia y vértigo.
<b>R68</b>	Possible risks of irreversible effects. / Possibilità di effetti irreversibili. / Possibilité d'effets irréversibles. / Posibilidad de efectos irreversibles.
<b>R68/20</b>	Harmful: possible risk of irreversible effects through inhalation. / Nocivo: possibilità di effetti irreversibili per inalazione. / Nocif: possibilité d'effets irréversibles par inhalation. / Nocivo: posibilidad de efectos irreversibles por inhalación.
<b>R68/20/21</b>	Harmful: possible risk of irreversible effects through inhalation and in contact with skin. / Nocivo: possibilità di effetti irreversibili per inalazione e a contatto con la pelle / Nocif: possibilité d'effets irréversibles par inhalation et par contact avec la peau. / Nocivo: posibilidad de efectos irreversibles por inhalación y contacto con la piel.
<b>R68/20/21/22</b>	Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed. / Nocivo: possibilità di effetti irreversibili per inalazione, a contatto con la pelle e per ingestione. / Nocif: possibilité d'effets irréversibles par inhalation, par contact avec la peau et par ingestion. / Nocivo: posibilidad de efectos irreversibles por inhalación, contacto con la piel e ingestión.
<b>R68/20/22</b>	Harmful: possible risk of irreversible effects through inhalation and if swallowed. / Nocivo: possibilità di effetti irreversibili per inalazione e ingestione. / Nocif: possibilité d'effets irréversibles par inhalation et par ingestion. / Nocivo: Posibilidad de efectos irreversibles por inhalación e ingestión.
<b>R68/21</b>	Harmful: possible risk of irreversible effects in contact with skin. / Nocivo: possibilità di effetti irreversibili a contatto con la pelle. / Nocif: possibilité d'effets irréversibles par contact avec la peau. / Nocivo: posibilidad de efectos irreversibles por contacto con la piel.
<b>R68/21/22</b>	Harmful: possible risk of irreversible effects in contact with skin and if swallowed. / Nocivo: possibilità di effetti irreversibili a contatto con la pelle e per ingestione / Nocif: possibilité d'effets irréversibles par contact avec la peau et par ingestion. / Nocivo: posibilidad de efectos irreversibles por contacto con la piel e ingestión.
<b>R68/22</b>	Harmful: possible risk of irreversible effects if swallowed. / Nocivo: possibilità di effetti irreversibili per ingestione. / Nocif: possibilité d'effets irréversibles par ingestion. / Nocivo: posibilidad de efectos irreversibles por ingestión.

# SAFETY FRASES

## CONSIGLI DI PRUDENZA / CONSEILS DE PRUDENCE / CONSEJOS DE PRUDENCIA

<b>S1</b>	Keep locked up. / Conservare sotto chiave. / Conserver sous clé. / Consérvese bajo llave.
<b>S1/2</b>	Keep locked up and out of reach of children. / Conservare sotto chiave e fuori dalla portata dei bambini. / Conserver sous clef et hors de portée des enfants. / Consérvese bajo llave y Manténgase fuera del alcance de los niños.
<b>S2</b>	Keep out of the reach of children. / Conservare fuori della portata dei bambini. / Conserver hors de la portée des enfants. / Manténgase fuera del alcance de los niños.
<b>S3</b>	Keep in a cool place. / Conservare in luogo fresco. / Conserver dans un endroit frais. / Consérvese en lugar fresco.
<b>S3/7</b>	Keep container tightly closed in a cool place. / Tenere il recipiente ben chiuso in luogo fresco. / Conserver le récipient bien fermé dans un endroit frais. / Consérvese el recipiente bien cerrado y en lugar fresco.
<b>S3/9/14</b>	Keep in a cool, well-ventilated place away from ... (incompatible materials to be indicated by the manufacturer). / Conservare in luogo fresco e ben ventilato lontano da ... (materiali incompatibili da precisare da parte del fabbricante). / Conserver dans un endroit frais et bien ventilé à l'écart des ... (matières incompatibles à préciser par le fabricant). / Consérvese en lugar fresco y bien ventilado y lejos de ... (materiales incompatibles, a especificar por el fabricante).
<b>S3/9/14/49</b>	Keep only in the original container in a cool, well-ventilated place away from ... (incompatible materials to be indicated by the manufacturer). / Conservare soltanto nel contenitore originale in luogo fresco e ben ventilato lontano da ... (materiali incompatibili da precisare da parte del fabbricante). / Conserver uniquement dans le récipient d'origine dans un endroit frais et bien ventilé à l'écart de ... (matières incompatibles à indiquer par le fabricant) / Consérvese únicamente en el recipiente de origen, en lugar fresco y bien ventilado y lejos de ... (materiales incompatibles, a especificar por el fabricante).
<b>S3/9/49</b>	Keep only the original container in a cool, well-ventilated place. / Conservare soltanto nel contenitore originale in luogo fresco e ben ventilato. / Conserver uniquement dans le récipient d'origine dans un endroit frais et bien ventilé. / Consérvese únicamente en el recipiente de origen, en lugar fresco y bien ventilado.
<b>S3/14</b>	Keep in a cool place away from ... (incompatible materials to be indicated by the manufacturer). / Conservare in luogo fresco lontano da ... (materiali incompatibili da precisare da parte del fabbricante) / Conserver dans un endroit frais à l'écart des ... (matières incompatibles à indiquer par le fabricant). / Consérvese en lugar fresco y lejos de ... (materiales incompatibles, a especificar por el fabricante).
<b>S4</b>	Keep away from living quarters. / Conservare lontano da locali di abitazione. / Conserver à l'écart de tout local d'habitation. / Manténgase lejos de locales habitados.
<b>S5</b>	Keep contents under ... (appropriate liquid to be specified by the manufacturer). / Conservare sotto... (liquido appropriato da indicarsi da parte del fabbricante). / Conserver sous... (Liquide approprié à spécifier par le fabricant) / Consérvese en ... (liquido apropiado a especificar por el fabricante).
<b>S6</b>	Keep under ... (inert gas to be specified by the manufacturer). / Conservare sotto... (gas inerte da indicarsi da parte del fabbricante). / Conserver sous... (gaz inerte à spécifier par le fabricant) / Consérvese en ... (gas inerte a especificar por el fabricante).
<b>S7</b>	Keep container tightly closed. / Conservare il recipiente ben chiuso. / Conserver le récipient bien fermé. / Manténgase el recipiente bien cerrado.
<b>S7/8</b>	Keep container tightly closed and dry. / Conservare il recipiente ben chiuso e al riparo dall'umidità. / Conserver le récipient bien fermé et à l'abri de l'humidité. / Manténgase el recipiente bien cerrado y en lugar seco.
<b>S7/9</b>	Keep container tightly closed and in a well-ventilated place. / Tenere il recipiente ben chiuso e in luogo ben ventilato. / Conserver le récipient bien fermé dans un endroit bien ventilé. / Manténgase el recipiente bien cerrado y en lugar bien ventilado.
<b>S7/4/7</b>	Keep container tightly closed and at a temperature not exceeding ... °C (to be specified by the manufacturer). / Tenere il recipiente ben chiuso e a temperatura non superiore a °C (da precisare da parte del fabbricante). / Conserver le récipient bien fermé et à une température ne dépassant pas... °C (à préciser par le fabricant) / Manténgase el recipiente bien cerrado y consérvese a una temperatura no superior a ... °C (a especificar por el fabricante).
<b>S8</b>	Keep container dry. / Conservare al riparo dall'umidità. / Conserver le récipient à l'abri de l'humidité. / Manténgase el recipiente en lugar seco.
<b>S9</b>	Keep container in a well-ventilated place. / Conservare il recipiente in luogo ben ventilato. / Conserver le récipient dans un endroit bien ventilé. / Consérvese el recipiente en lugar bien ventilado.
<b>S12</b>	Do not keep the container sealed. / Non chiudere ermeticamente il recipiente. / Ne pas fermer hermétiquement le récipient. / No cerrar el recipiente herméticamente.
<b>S13</b>	Keep away from food, drink and animal feeding stuffs. / Conservare lontano da alimenti o mangimi e da bevande. / Conserver à l'écart des aliments et boissons y compris ceux pour animaux. / Manténgase lejos de alimentos, bebidas y piensos.
<b>S14</b>	Keep away from ... (incompatible materials to be indicated by the manufacturer) compounds. / Conservare lontano da ... (sostanze incompatibili da precisare da parte del produttore). / Conserver à l'écart des ... (matières incompatibles à indiquer par le fabricant) / Consérvese lejos de ... (materiales incompatibles a especificar por el fabricante).
<b>S15</b>	Keep away from heat. / Conservare lontano dal calore. / Conserver à l'écart de la chaleur. / Conservar alejado del calor.
<b>S16</b>	Keep away from sources of ignition - No smoking. / Conservare lontano da fiamme e scintille - Non fumare. / Conserver à l'écart de toute flamme ou source d'étincelles - Ne pas fumer. / Conservar alejado de toda llama o fuente de chispas - No fumar.
<b>S17</b>	Keep away from combustible material. / Tenere lontano da sostanze combustibili. / Tenir à l'écart des matières combustibles. / Manténgase lejos de materias combustibles.
<b>S18</b>	Handle and open container with care. / Manipolare ed aprire il recipiente con cautela. / Manipuler et ouvrir le récipient avec prudence. / Manipúlese y ábrase el recipiente con prudencia.
<b>S20</b>	When using do not eat or drink. / Non mangiare né bere durante l'impiego. / Ne pas manger et ne pas boire pendant l'utilisation. / No comer ni beber durante su utilización.
<b>S20/21</b>	When using do not eat, drink or smoke. / Non mangiare, né bere, né fumare durante l'impiego. / Ne pas manger, ne pas boire et ne pas fumer pendant l'utilisation. / No comer, ni beber, ni fumar durante su utilización.
<b>S21</b>	When using do not smoke. / Non fumare durante l'impiego. / Ne pas fumer pendant l'utilisation. / No fumar durante su utilización.

<b>S22</b>	Do not breathe dust. / Non respirare le polveri. / Ne pas respirer les poussières. / No respirar el polvo.
<b>S23</b>	Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer). / Non respirare i gas/fumi/vapori/aerosoli [termine(i) appropriato(i) da precisare da parte del produttore]. / Ne pas respirer les gaz/vapeurs/fumées/aérosols [terme(s) approprié(s) à indiquer par le fabricant] / No respirar los gases/humos/vapores/aerosoles (denominación(es) adecuada(s) a especificar por el fabricante).
<b>S24</b>	Avoid contact with skin. / Evitare il contatto con la pelle. / Eviter le contact avec la peau. / Evítense el contacto con la piel.
<b>S24/25</b>	Avoid contact with skin and eyes. / Evitare il contatto con gli occhi e con la pelle. / Eviter le contact avec la peau et les yeux. / Evítense el contacto con los ojos y la piel.
<b>S25</b>	Avoid contact with eyes. / Evitare il contatto con gli occhi. / Eviter le contact avec les yeux. / Evítense el contacto con los ojos.
<b>S26</b>	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. / In caso di contatto con gli occhi, lavare immediatamente e abbondantemente con acqua e consultare un medico. / En cas de contact avec les yeux, laver immédiatement et abondamment avec de l'eau et consulter un spécialiste. / En caso de contacto con los ojos, lávense inmediata y abundantemente con agua y acúdase a un médico.
<b>S27</b>	Take off immediately ali contaminated clothing. / Togliersi di dosso immediatamente gli indumenti contaminati. / Enlever immédiatement tout vêtement souillé ou éclaboussé. / Quitese immediatamente la ropa manchada o salpicada.
<b>S27/28</b>	After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of ... (to be specified by the manufacturer). / In caso di contatto con la pelle, togliersi di dosso immediatamente gli indumenti contaminati e lavarsi immediatamente abbondantemente con... (prodotti idonei da indicarsi da parte del fabbricante) / Après contact avec la peau, enlever immédiatement tout vêtement souillé ou éclaboussé et se laver immédiatement et abondamment avec... (produits appropriés à indiquer par le fabricant) / Después del contacto con la piel, quítense inmediatamente toda la ropa manchada o salpicada y lávese inmediata y abundantemente con ... (productos a especificar por el fabricante).
<b>S28</b>	After contact with skin, wash immediately with plenty of ... (to be specified by the manufacturer). / In caso di contatto con la pelle lavarsi immediatamente ed abbondantemente con... (prodotti idonei da indicarsi da parte del fabbricante) / Après contact avec la peau, se laver immédiatement et abondamment avec... (produits appropriés à indiquer par le fabricant) / En caso de contacto con la piel, lávese inmediata y abundantemente con ... (productos a especificar por el fabricante).
<b>S29</b>	Do not empty into drains. / Non gettare i residui nelle fognature. / Ne pas jeter les résidus à l'égout. / No tirar los residuos por el desagüe.
<b>S29/35</b>	Do not empty into drains; dispose of this material and its container in a safe way. / Non gettare i residui nelle fognature; non disfarsi del prodotto e del recipiente se non con le dovute precauzioni. / Ne pas jeter les résidus à l'égout; ne se débarrasser de ce produit et de son récipient qu'en prenant toutes les précautions d'usage. / No tirar los residuos por el desagüe; elimínense los residuos del producto y sus recipientes con todas las precauciones posibles.
<b>S29/56</b>	Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point. / Non gettare i residui nelle fognature, smaltire questo materiale e i relativi contenitori in questo punto di raccolta rifiuti pericolosi o speciali. / Ne pas jeter les résidus à l'égout, éliminer ce produit et son récipient dans un centre de collecte des déchets dangereux ou spéciaux. / No tirar los residuos por el desagüe; elimínese esta sustancia y su recipiente en un punto de recogida pública de residuos especiales o peligrosos.
<b>S30</b>	Never add water to this product. / Non versare acqua sul prodotto. / Ne jamais verser de l'eau dans ce produit. / No echar jamás agua a este producto.
<b>S33</b>	Take precautionary measures against static discharges. / Evitare l'accumulo di cariche elettrostatiche. / Eviter l'accumulation de charges électrostatiques. / Evítense la acumulación de cargas electroestáticas.
<b>S35</b>	This material and its container must be disposed of in a safe way. / Non disfarsi del prodotto e del recipiente se non con le dovute precauzioni. / Ne se débarrasser de ce produit et de son récipient qu'en prenant toutes précautions d'usage. / Elimínense los residuos del producto y sus recipientes con todas las precauciones posibles.
<b>S36</b>	Wear suitable protective clothing. / Usare indumenti protettivi adatti. / Porter un vêtement de protection approprié. / Úsense indumentaria protectora adecuada.
<b>S36/37</b>	Wear suitable protective clothing and gloves. / Usare indumenti protettivi e guanti adatti. / Porter un vêtement de protection et des gants appropriés. / Úsense indumentaria y guantes de protección adecuados.
<b>S36/37/39</b>	Wear suitable protective clothing, gloves and eye/face protection. / Usare indumenti protettivi e guanti adatti e proteggersi gli occhi/la faccia. / Porter un vêtement de protection approprié, des gants et un appareil de protection des yeux/du visage. / Úsense indumentaria y guantes adecuados y protección para los ojos/la cara.
<b>S36/39</b>	Wear suitable protective clothing and eye/face protection. / Usare indumenti protettivi adatti e proteggersi gli occhi/la faccia. / Porter un vêtement de protection approprié et un appareil de protection des yeux/du visage. / Úsense indumentaria adecuada y protección para los ojos/la cara.
<b>S37</b>	Wear suitable gloves. / Usare guanti adatti. / Porter des gants appropriés. / Úsense guantes adecuados.
<b>S37/39</b>	Wear suitable gloves and eye/face protection / Usare guanti adatti e proteggersi gli occhi/la faccia. / Porter des gants appropriés et un appareil de protection des yeux/du visage. / Úsense guantes adecuados y protección para los ojos/la cara.
<b>S38</b>	In case of insufficient ventilation, wear suitable respiratory equipment. / In caso di ventilazione insufficiente, usare un apparecchio respiratorio adatto. / En cas de ventilation insuffisante, porter un appareil respiratoire approprié. / En caso de ventilación insuficiente, úsense equipo respiratorio adecuado.
<b>S39</b>	Wear eye/face protection. / Proteggersi gli occhi/la faccia. / Porter un appareil de protection des yeux/du visage. / Úsense protección para los ojos/la cara.
<b>S40</b>	To clean the floor and all objects contaminated by this material use ... (to be specified by the manufacturer). / Per pulire il pavimento e gli oggetti contaminati da questo prodotto, usare... (da precisare da parte del produttore). / Pour nettoyer le sol ou les objets souillés par ce produit, utiliser... (à préciser par le fabricant) / Para limpiar el suelo y los objetos contaminados por este producto, úsense... (a especificar por el fabricante).
<b>S41</b>	In case of fire and/or explosion do not breathe fumes. / In caso di incendio e/o esplosione non respirare i fumi. / En cas d'incendie et/ou d'explosion, ne pas respirer les fumées. / En caso de incendio y/o de explosión no respire los humos.
<b>S42</b>	During fumigation/spraying wear suitable respiratory equipment (appropriate wording to be specified by the manufacturer). / Durante le fumigazioni/polimerizzazioni usare un apparecchio respiratorio adatto [termine(i) appropriato(i) da precisare da parte del produttore]. / Pendant les fumigations/pulvérisations porter un appareil respiratoire approprié [terme(s) approprié(s) à indiquer par le fabricant] / Durante las fumigaciones/pulverizaciones, úsense equipo respiratorio adecuado (denominación(es) adecuada(s) a especificar por el fabricante).

<b>S43</b>	In case of fire, use ... (indicate the precise type of fire-fighting equipment. If water increases risk, add - "Never use water"). / In caso di incendio usare... (mezzi estinguenti idonei da indicarsi da parte del fabbricante. Se l'acqua aumenta il rischio precisare "Non usare acqua"). / En cas d'incendie utiliser... (moyens d'extinction à préciser par le fabricant. Si l'eau augmente les risques, ajouter "Ne jamais utiliser d'eau"). / En caso de incendio, utilizar ... (los medios de extinción los debe especificar el fabricante. Si el agua aumenta el riesgo, se deberá añadir: "No usar nunca agua").
<b>S45</b>	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). / In caso di incidente o di malessere consultare immediatamente il medico (se possibile, mostrargli l'etichetta). / En cas d'accident ou de malaise, consulter immédiatement un médecin (si possible lui montrer l'étiquette). / En caso de accidente o malestar, acúdase inmediatamente al médico (si es posible, muéstresele la etiqueta).
<b>S46</b>	If swallowed, seek medical advice immediately and show this container or label. / In caso d'ingestione consultare immediatamente il medico e mostrargli il contenitore o l'etichetta. / En cas d'ingestion consulter immédiatement un médecin et lui montrer l'emballage ou l'étiquette. / En caso de ingestión, acúdase inmediatamente al médico y muéstresele la etiqueta o el envase.
<b>S47</b>	Keep at temperature not exceeding ... °C (to be specified by the manufacturer). / Conservare a temperatura non superiore a ... °C (da precisare da parte del fabbricante). / Conserver à une température ne dépassant pas ... °C (à préciser par le fabricant). / Consérvese a una temperatura no superior a ... °C (a especificar por el fabricante).
<b>S47/49</b>	Keep only in the original container at a temperature not exceeding ...°C (to be specified by the manufacturer). / Conservare soltanto nel contenitore originale a temperatura non superiore a ...°C (da precisare da parte del fabbricante). / Conserver uniquement dans le récipient d'origine à une température ne dépassant pas...°C.(à préciser par le fabricant). / Consérvese únicamente en el recipiente de origen y a temperatura no superior a ...°C (a especificar por el fabricante).
<b>S48</b>	Keep wet with ... (appropriate material to be specified by the manufacturer). / Mantenere umido con ... (mezzo appropriato da precisare da parte del fabbricante). / Maintenir humide avec ... (moyen approprié à préciser par le fabricant) / Consérvese húmedo con ... (medio apropiado a especificar por el fabricante).
<b>S49</b>	Keep only in the original container. / Conservare soltanto nel recipiente originale. / Conserver uniquement dans le récipient d'origine. / Consérvese únicamente en el recipiente de origen.
<b>S50</b>	Do not mix with ... (to be specified by the manufacturer). / Non mescolare con... (da specificare da parte del fabbricante). / Ne pas mélanger avec... (à spécifier par le fabricant) / No mezclar con ... (a especificar por el fabricante).
<b>S51</b>	Use only in well-ventilated areas. / Usare soltanto in luogo ben ventilato. / Utiliser seulement dans des zones bien ventilées. / Úsese únicamente en lugares bien ventilados.
<b>S52</b>	Not recommended for interior use on large surface areas. / Non utilizzare su grandi superfici in locali abitati. / Ne pas utiliser sur de grandes surfaces dans des locaux habités. / No usar sobre grandes superficies en locales habitados.
<b>S53</b>	Avoid exposure - obtain special instructions before use. Restricted to professional users. / Evitare l'esposizione - Procurarsi speciali istruzioni prima dell'uso. / Eviter l'exposition - Se procurer des instructions spéciales avant l'utilisation. / Evítense la exposición - recábense instrucciones especiales antes del uso.
<b>S56</b>	Dispose of this material and its container at hazardous or special waste collection point. / Smaltire questo materiale e relativi contenitori in un punto di raccolta rifiuti pericolosi o speciali autorizzati. / Eliminer ce produit et son récipient dans un centre de collecte des déchets dangereux ou spéciaux. / Elimínense esta sustancia y su recipiente en un punto de recogida pública de residuos especiales o peligrosos.
<b>S57</b>	Use appropriate container to avoid environmental contamination. / Usare contenitori adeguati per evitare l'inquinamento ambientale. / Utiliser un récipient approprié pour éviter toute contamination du milieu ambiant. / Utilícese un envase de seguridad adecuado para evitar la contaminación del medio ambiente.
<b>S59</b>	Refer to manufacturer/supplier for information on recovery/recycling. / Richiedere informazioni al produttore/fornitore per il recupero/riciclaggio. / Consulter le fabricant/fournisseur pour des informations relatives à la récupération/au recyclage. / Remitirse al fabricante o proveedor para obtener información sobre su recuperación/reciclado.
<b>S60</b>	This material and its container must be disposed of as hazardous waste. / Questo materiale e suo contenitore devono essere smaltiti come rifiuti pericolosi. / Eliminer le produit et son récipient comme un déchet dangereux. / Elimínense el producto y su recipiente como residuos peligrosos.
<b>S61</b>	Avoid release to the environment. Refer to special instructions/Safety data sheets. / Non disperdere nell'ambiente. Riferirsi alle istruzioni speciali/schede informative in materia di sicurezza. / Eviter le rejet dans l'environnement. Consulter les instructions spéciales/la fiche de données de sécurité. / Evítense su liberación al medio ambiente. Recábense instrucciones específicas de la ficha de datos de seguridad.
<b>S62</b>	If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label. / In caso di ingestione non provocare il vomito: consultare immediatamente il medico e mostrargli il contenitore o l'etichetta. / En cas d'ingestion, ne pas faire vomir: consulter immédiatement un médecin et lui montrer l'emballage ou l'étiquette. / En caso de ingestión no provocar el vómito: acúdase inmediatamente al médico y muéstresele la etiqueta o el envase.
<b>S63</b>	In case of accident by inhalation: remove casualty to fresh air and keep at rest. / In caso di incidente per inalazione, allontanare l'infortunato dalla zona con / En cas d'accident par inhalation, transporter la victime hors de la zone contaminée et la garder au repos. / En caso de accidente por inhalación, alejar a la víctima de la zona contaminada y mantenerla en reposo.
<b>S64</b>	If swallowed, rinse mouth with water (only if the person is conscious). / In caso di indigestione, sciacquare la bocca con acqua (solamente se l'infortunato / En cas d'ingestion, rincer la bouche avec de l'eau (seulement si la personne est consciente). / En caso de ingestión, enjuáguese la boca con agua (solamente si la persona está consciente).





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340751	Diethyl ether	165	347107	Gum arabic	225	354751	1-Naphthol	343
340752	Diethyl ether	165	347109	Gum arabic	225	355752	Nickel (II) sulfate hexahydrate	350
340759	Diethyl ether	165	347354	Lanolin anhydrous	286	355757	Nickel (II) sulfate hexahydrate	350
340762	Diethyl ether	165	347357	Lanolin anhydrous	286	356251	Oil refined of almonds	363
340765	Diethyl ether	165	347359	Lanolin anhydrous	286	356351	Castor oil	113
341022	Petroleum ether 40 - 70°C	381	348124	Hydroquinone	255	356352	Castor oil	113
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341503	Ethyl acetate	193	348454	Iodine	265	356608	Paraffin oil	372
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343003	Tetrachloroethylene	541	348702	Lactose	286	356953	n-Pentane	374
343407	Phenol	385	348703	Lactose	286	356954	n-Pentane	374
343411	Phenol liquified 85%	385	348707	Lactose	286	357151	Petroleum	378
343412	Phenol liquified 85%	385	348754	Lecithin of soya	293	357155	Petroleum	378
343414	Phenol liquified 85%	385	348854	Yeast dried	580	357253	Lead (II) acetate trihydrate	290
343441	Iron (III) ammonium citrate red	271	348857	Yeast dried	580	357259	Lead (II) acetate trihydrate	290
343442	Iron (III) ammonium citrate red	271	348901	Petroleum ether 80 - 120°C	379	357456	Lead (IV) oxide	293
343605	Iron (III) ammonium citrate g...	270	348905	Petroleum ether 80 - 120°C	379	358007	Lead (II) nitrate	291
343607	Iron (III) ammonium citrate g...	270	348912	Petroleum ether 100 - 140°C	379	358252	Lead (II) oxide	292

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358259	Lead (II) oxide	292	364637	Copper (I) iodide	138	369152	Sodium phosphate dibasic d...	496
358752	Pyridine	435	364752	Copper (II) sulfate pentahyd...	142	369154	Sodium phosphate dibasic d...	496
358754	Pyridine	435	364757	Copper (II) sulfate pentahyd...	142	369159	Sodium phosphate dibasic d...	496
358903	Potassium acetate	397	364759	Copper (II) sulfate pentahyd...	142	369162	Sodium phosphate dibasic d...	496
358907	Potassium acetate	397	365002	Copper (II) sulfate anhydrous	141	369185	Sodium phosphate dibasic d...	496
359323	Potassium bicarbonate	397	365006	Copper (II) sulfate anhydrous	141	369211	Sodium phosphate dibasic a...	495
359324	Potassium bicarbonate	397	365152	D(+)-Sucrose	522	369212	Sodium phosphate dibasic a...	495
359327	Potassium bicarbonate	397	365157	D(+)-Sucrose	522	369252	Sodium phosphate dibasic	497
359367	Potassium dichromate	404	365755	Saponin	446	369257	Sodium phosphate dibasic	497
359702	Potassium bromide	399	365757	Saponin	446	369301	Sodium phosphate tribasic	498
359707	Potassium bromide	399	365801	Silicon dioxide	453	369309	Sodium phosphate tribasic	498
359803	Potassium carbonate	400	366205	Sodium acetate trihydrate	464	369447	Sodium glycerophosphate p...	476
359809	Potassium carbonate	400	366207	Sodium acetate trihydrate	464	369449	Sodium glycerophosphate p...	476
359954	Potassium citrate tribasic	403	366209	Sodium acetate trihydrate	464	369581	Sodium gluconate	475
359956	Potassium citrate tribasic	403	366371	Sodium acetate anhydrous	463	369582	Sodium gluconate	475
359958	Potassium citrate tribasic	403	366372	Sodium acetate anhydrous	463	369663	Sodium glutamate acid	475
360104	Potassium chloride	400	366377	Sodium acetate anhydrous	463	369667	Sodium glutamate acid	475
360106	Potassium chloride	400	366551	Sodium alginate	464	369701000	Sodium hydroxide solution ...	480
360107	Potassium chloride	400	366552	Sodium alginate	464	369702	Sodium hydroxide solution ...	480
360109	Potassium chloride	400	366681	Sodium L-ascorbate	465	369704	Sodium hydroxide solution ...	480
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360257	Potassium ferricyanide	405	366754	Sodium benzoate	466	369742	Sodium hydroxide, pearls	477
360552	Potassium ferrocyanide	406	366757	Sodium benzoate	466	369743	Sodium hydroxide, pearls	477
360557	Potassium ferrocyanide	406	366759	Sodium benzoate	466	369744	Sodium hydroxide, pearls	477
361503	Potassium phosphate mono...	422	366902	Sodium bicarbonate	466	369761	Sodium hydroxide solution ...	480
361507	Potassium phosphate mono...	422	366904	Sodium bicarbonate	466	369762	Sodium hydroxide solution ...	480
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362239	Potassium hydroxide, pellets	410	367354	Sodium bromide	467	370012	Sodium hydrosulfite	477
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362403	Potassium iodide	416	367603	Sodium carbonate decahydr...	468	370308	Sodium iodide	489
362405	Potassium iodide	416	367604	Sodium carbonate decahydr...	468	370321	Sodium hypochlorite solutio...	488
362407	Potassium iodide	416	367609	Sodium carbonate decahydr...	468	370322	Sodium hypochlorite solutio...	488
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362622	Potassium metabisulfite	418	367693	Sodium carbonate monohyd...	469	370752	Sodium metabisulfite	490
362627	Potassium metabisulfite	418	367694	Sodium carbonate monohyd...	469	370753	Sodium metabisulfite	490
363002	Potassium nitrate	418	367703	Sodium carbonate anhydrous	468	371802	Sodium nitrate	492
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363009	Potassium nitrate	418	367707	Sodium carbonate anhydrous	468	371809	Sodium nitrate	492
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363459	Potassium sodium tartrate t...	424	368052	Sodium citrate tribasic dihyd...	473	372201	Sodium oxalate	494
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363756	Potassium thiocyanate	426	368107	Sodium citrate tribasic anhy...	472	373908	Sodium silicate	500
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363884	Potassium sorbate	425	368254	Sodium chloride	470	376002	Sodium sulfite anhydrous	502
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363907	Potassium L-tartrate monob...	426	368259	Sodium chloride	470	376004	Sodium sulfite anhydrous	502
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363956	Propyl p-hydroxybenzoate	433	368351	Sodium hexametaphosphate	476	376008	Sodium sulfite anhydrous	502
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363974	Calcium propionate	107	368357	Sodium hexametaphosphate	476	376403	Sodium sulfide trihydrate	502
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364011	Quartz granular	438	368457	Sodium fluoride	474	377207	Sodium stannate trihydrate	500
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387205	Trimethylcetylammonium p-...	565	401216	Acetonitrile	12	403916	Hydrochloric acid 34-37%	240
387207	Trimethylcetylammonium p-...	565	401241	Acetonitrile	12	403917	Hydrochloric acid 34-37%	240
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387801	Urea	571	401391	Acetic acid glacial	2	403977	Hydrochloric acid 37%	239
387807	Urea	571	401392	Acetic acid glacial	2	403981	Hydrochloric acid 32%	241
387809	Urea	571	401396	Acetic acid glacial	2	403982	Hydrochloric acid 32%	241
388102	Vanillin	573	401397	Acetic acid glacial	2	403984	Hydrochloric acid 32%	241
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405513000	Ethylenediaminetetraacetic a...	199	407483	Methanesulfonic acid	320	410261	Sulfuric acid 96%	527
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405531	Ethylenediaminetetraacetic a...	198	407952	Nitric acid 65%	355	410303	Sulfuric acid 96%	527
405541	Ethylenediaminetetraacetic a...	200	408021	Nitric acid 65%	355	410306	Sulfuric acid 96%	527
405551	2-Ethylhexanoic acid	201	408022	Nitric acid 65%	355	410307	Sulfuric acid 96%	527
405582	Ethylenediaminetetraacetic a...	198	408025	Nitric acid 65%	355	410308	Sulfuric acid 96%	527
405597	Phenylacetic acid	387	408027	Nitric acid 65%	355	410351	Sulfuric acid 93-98%	528
405611	Hydrofluoric acid 47-51%	251	408051	Nitric acid 67-69%	354	410371	Sulfuric acid 96%	527
405621	1-Hexanesulphonic acid so...	234	408071	Nitric acid 69.5%	353	410374	Sulfuric acid 96%	527
405653	Hydrofluoric acid 50%	250	408072	Nitric acid 69.5%	353	410381	Sulfuric acid 96%	527
405683	Hydrofluoric acid 39.5%	252	408075	Nitric acid 69.5%	353	410391	Sulfuric acid 90-91%	529
405716	Hydrofluoric acid 47-51%	251	408076	Nitric acid 69.5%	353	410394	Sulfuric acid 90-91%	529
405722	Hydrofluoric acid 50%	250	408097	Nitric acid 69.5%	353	410405	Sulfuric acid 93-98%	528
405728	Hydrofluoric acid 50%	250	408098	Nitric acid 69.5%	353	410406	Sulfuric acid 93-98%	528
405737	Hydrofluoric acid 50%	250	408101	Nitric acid 65%	355	410407	Sulfuric acid 93-98%	528
405739	Hydrofluoric acid 50%	250	408102	Nitric acid 65%	355	410421	Sulfuric acid 98%	526
405761	Hydrofluoric acid 39.5%	252	408103	Nitric acid 65%	355	410511000	Sulfuric acid 20%	531
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405794	Formic acid 99%	213	408152	Nitric acid 69.5%	353	410573	Sulfuric acid 0.5 mol/l (1N)	532
405821	Formic acid 99%	213	408176000	Nitric acid 1 mol/l (1N)	357	410575000	Sulfuric acid 0.5 mol/l (1N)	532
405822	Formic acid 99%	213	408185000	Nitric acid 2 mol/l (2N)	357	410577000	Sulfuric acid 0.5 mol/l (1N)	532
405823	Formic acid 99%	213	408191	Nitric acid 18%	356	410591	Sulfuric acid 0.5 mol/l (1N)	532
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405833	Formic acid 85%	213	408231	Nitric acid 0.1 mol/l (0.1N)	357	410662000	Sulfuric acid 0.25 mol/l (0.5N)	533
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7722-64-7	Potassium permanganate	419	7790-28-5	Sodium metaperiodate	491	10043-52-4	Calcium chloride fused	102
7722-76-1	Ammonium phosphate mon...	45	7790-58-1	Potassium tellurite	426	10049-21-5	Sodium phosphate monobas...	498
7722-84-1	Hydrogen peroxide solution...	253	7790-62-7	Potassium pyrosulphate	424	10060-12-5	Chromium (III) chloride hexa...	128
7722-84-1	Hydrogen peroxide solution...	253	7790-69-4	Lithium nitrate	296	10099-74-8	Lead (II) nitrate	291
7722-84-1	Hydrogen peroxide solution...	254	7790-84-3	Cadmium sulfate octahydrate	98	10101-41-4	Calcium sulfate dihydrate	108
7722-84-1	Hydrogen peroxide solution...	255	7791-13-1	Cobalt (II) chloride hexahydr...	134	10101-89-0	Sodium phosphate tribasic	498
7722-84-1	Hydrogen peroxide solution...	255	7791-18-6	Magnesium chloride hexahy...	302	10101-97-0	Nickel (II) sulfate hexahydrate	350
7726-95-6	Bromine solution	76	7791-20-0	Nickel (II) chloride hexahydr...	349	10102-17-7	Sodium thiosulfate pentahyd...	505
7726-95-6	Bromine water	77	7803-55-6	Ammonium metavanadate	42	10102-25-7	Lithium sulfate monohydrate	296
7727-21-1	Potassium persulfate	421	8001-79-4	Castor oil	113	10102-40-6	Sodium molybdate dihydrate	492
7727-43-7	Barium sulfate	64	8002-27-9	Oil of cedar wood	363	10112-91-1	Mercury (I) chloride	315
7727-54-0	Ammonium persulfate	44	8002-43-5	Lecithin of soya	293	10124-48-8	Mercury (II) amidochloride	316
7727-73-3	Sodium sulfate decahydrate	502	8004-87-3	Methyl violet	335	10124-56-8	Sodium hexametaphosphate	476
7732-18-5	Water	574	8004-91-9	Aniline blue soluble in alcohol	50	10125-13-0	Copper (II) chloride dihydrate	140
7732-18-5	Water purified	576	8005-03-6	Nigrosine	351	10196-18-6	Zinc nitrate hexahydrate	585
7757-79-1	Potassium nitrate	418	8005-78-5	Bismarck brown R	70	10213-10-2	Sodium tungstate dihydrate	507
7757-82-6	Sodium sulfate anhydrous	501	8006-54-0	Lanolin anhydrous	286	10213-10-2	Sodium tungstate solution 1...	507
7757-83-7	Sodium sulfite anhydrous	502	8007-47-4	Canada balsam	110	10277-43-7	Lanthanum nitrate hexahydr...	287
7758-09-0	Potassium nitrite	419	8007-69-0	Oil refined of almonds	363	10294-26-5	Silver sulfate	460
7758-23-8	Calcium phosphate monoba...	107	8012-95-1	Paraffin oil	372	10294-26-5	Silver sulfate solution 0.7% i...	461
7758-87-4	Calcium phosphate tribasic	106	8028-48-6	Histolemon-Erba	235	10294-39-0	Barium perchlorate trihydrate	63
7758-89-6	Copper (I) chloride	138	8047-15-2	Saponin	446	10294-40-3	Barium chromate	62
7758-89-6	Copper (I) chloride solution ...	138	8049-11-04	Devarda's alloy	153	10294-41-4	Cerium (III) nitrate hexahydr...	114
7758-98-7	Copper (II) sulfate anhydrous	141	8049-22-7	Wood's alloy	576	10294-42-5	Cerium (IV) sulfate	114
7758-99-8	Copper (II) sulfate pentahyd...	142	9000-01-5	Gum arabic	225	10294-54-9	Cesium sulfate	116
7761-88-8	Silver nitrate	457	9000-70-8	Gelatine	217	10326-27-9	Barium chloride dihydrate	60
7772-98-7	Sodium thiosulfate anhydrous	505	9000-71-9	Casein	112	10361-03-2	Sodium metaphosphate	491
7773-06-0	Ammonium sulfamate	45	9002-93-1	Triton® X100 solution	569	10361-29-2	Ammonium carbonate	34
7774-29-0	Mercury (II) iodide	317	9003-39-8	Polyvinylpyrrolidone	395	10377-66-9	Manganese (II) nitrate soluti...	311
7774-34-7	Calcium chloride hexahydrate	102	9004-34-6	Cellulose, powder	113	10378-47-9	Ammonium cerium(IV) sulfat...	36
7775-14-6	Sodium hydrosulfite	477	9004-53-9	Dextrin	153	10416-59-8	n,o-Bis(trimethylsilyl)acetam...	70
7775-27-1	Sodium persulfate	495	9005-25-8	Indicator for iodometry	260	10450-60-9	Periodic acid	378
7778-50-9	Potassium dichromate	404	9005-25-8	Rice starch	443	10486-00-7	Sodium perborate tetrahydr...	494
7778-77-0	Potassium phosphate mono...	422	9005-38-3	Sodium alginate	464	11024-24-1	Digitonin	168
7778-80-5	Potassium sulfate	425	9005-80-5	Inulin	264	11138-49-1	Sodium aluminate	464
7782-42-5	Graphite	224	9005-84-9	Maize starch	307	12003-78-0	Raney's alloy	439
7782-49-2	Selenium, powder	448	9005-84-9	Starch paste solution 1%	514	12007-58-8	Ammonium tetraborate trihy...	47
7782-50-5	Chlorine water	120	9005-84-9	Starch soluble	515	12007-60-2	Lithium tetraborate anhydrous	297
7782-61-8	Iron (III) nitrate nonahydrate	274	9005-84-9	Starch solution	515	12027-06-4	Ammonium iodide	41
7782-63-0	Iron (II) sulfate heptahydrate	270	9006-59-1	Albumin from eggs powder	17	12027-43-9	Silicotungstic acid	454
7782-75-4	Magnesium hydrogen phosp...	303	9006-59-1	Albumin from eggs, dried	17	12029-98-0	Iodopentoxide	267
7782-86-7	Mercury (I) nitrate monohyd...	316	9016-45-9	Nonylphenol ethoxylated 10...	361	12054-85-2	Ammonium molybdate tetra...	42
7783-00-8	Selenous acid	449	10022-31-8	Barium nitrate	63	12055-62-8	Holmium oxide	236
7783-20-2	Ammonium sulfate	46	10022-68-1	Cadmium nitrate tetrahydrate	97	12069-68-0	Cobalt (II) carbonate basic	134
7783-20-2	Start-up Kit Nitrogen	518	10025-69-1	Tin (II) chloride dihydrate	551	12069-69-1	Copper (II) carbonate (basic)	139
7783-28-0	Ammonium phosphate dibasic	44	10025-70-4	Strontium chloride hexahydr...	520	12124-97-9	Ammonium bromide	33
7783-33-7	Potassium mercuric iodide s...	417	10025-77-1	Iron (III) chloride hexahydrate	273	12125-01-8	Ammonium fluoride	39
7783-34-8	Mercury (II) nitrate monohyd...	317	10025-91-9	Antimony trichloride	53	12125-02-9	Ammonium chloride	36



12125-02-9	Start-up Kit Ammonia	515	15708-48-2	Ethylenediaminetetraacetic a...	200	37267-86-0	Metaphosphoric acid	319
12135-76-1	Ammonium sulfide solution ...	46	16423-68-0	Erythrosin extra B	185	38894-11-0	3-Methyl-2-benzothiazolino...	327
12208-13-8	Potassium pyroantimonate a...	423	16674-78-5	Magnesium acetate tetrahyd...	301	39409-82-0	Magnesium carbonate basic	301
12209-98-2	Sodium pyroantimonate trihydrate	500	16731-55-8	Potassium metabisulfite	418	39430-27-8	Nickel (II) carbonate basic	349
12230-71-6	Barium hydroxide octahydra...	60	16774-21-3	Ammonium cerium(IV) nitrate	35	42607-30-7	Sodium sulfide trihydrate	502
12501-23-4	Phosphotungstic acid	393	16788-57-1	Potassium phosphate dibasi...	422	51429-74-4	Phosphomolybdic acid	391
13011-54-6	Sodium ammonium hydroge...	465	16893-85-9	Sodium hexafluorosilicate	476	51580-86-0	Sodium dichloroisocyanurat...	474
13092-66-5	Magnesium dihydrogen pho...	302	16919-27-0	Potassium fluorotitanate	407	52746-49-3	Bathophenanthroline sulfon...	64
13235-36-4	Ethylenediaminetetraacetic a...	200	16921-30-5	di-Potassium hexachloropla...	408	52785-06-5	Platinum(IV) oxide	395
13435-12-6	n-Trimethylsilylacetamide	565	16940-66-2	Sodium borohydride	467	53092-85-6	Azure II eosin	58
13435-46-6	Barium chloranilate	60	16961-25-4	Gold(III) chloride trihydrate	223	54723-94-3	Ammonium phosphomolybd...	45
13446-18-9	Magnesium nitrate hexahydr...	303	17199-29-0	L(+)-Mandelic acid	309	54827-17-7	3,3',5,5'-Tetramethylbenzidi...	544
13446-23-6	Magnesium phosphate tribasic	305	17372-87-1	Eosin Y	182	62625-22-3	Zincon	587
13446-34-9	Manganese (II) chloride tetra...	311	17372-87-1	Eosin Y solution aqueous	183	62758-13-8	Resazurin	441
13455-24-8	Potassium hydrogen iodate	408	17372-87-1	Eosin Y solution alcoholic	183	63428-83-1	Polyamide powder	395
13463-67-7	Titanium dioxide	553	17629-30-0	Raffinose	439	63449-41-2	Benzalkonium chloride	65
13472-35-0	Sodium phosphate monobas...	497	17647-74-4	1,4-Dioxane-d8	178	64742-49-0	Petroleum benzin E	379
13472-36-1	Sodium pyrophosphate deca...	499	18016-24-5	Calcium gluconate	104	64742-49-0	Petroleum ether 100 - 140°C	379
13477-34-4	Calcium nitrate tetrahydrate	105	18282-10-5	Tin (IV) oxide	552	64742-49-0	Petroleum ether 80 - 120°C	379
13478-00-7	Nickel (II) nitrate hexahydrate	349	18472-87-2	Phloxin B	389	64742-49-0	Petroleum ether 80 - 100°C	379
13478-10-9	Iron (II) chloride tetrahydrate	269	18497-13-7	Hexachloroplatinic acid hex...	230	64742-49-0	Petroleum ether 75 - 120°C	380
13494-80-9	Tellurium, lumps	539	20624-25-3	Sodium diethyldithiocarbam...	474	64742-49-0	Petroleum ether 65 - 95°C	380
13494-80-9	Tellurium, powder	539	20667-12-3	Silver oxide	460	64742-49-0	Petroleum ether 60 - 80°C	380
13517-23-2	Sodium o-Phosphite pentah...	499	20816-12-0	Osmium (VIII) oxide	367	64742-49-0	Petroleum ether 55 - 85°C	381
13520-92-8	Zirconyl chloride octahydrate	588	21368-68-3	Camphor synthetic	109	64742-49-0	Petroleum ether 40 - 70°C	381
13537-24-1	Iron (III) perchlorate nonahy...	274	21645-51-2	Aluminum hydroxide	23	64742-49-0	Petroleum ether 40 - 65°C	381
13573-16-5	Reinecke salt	441	21908-53-2	Mercury (II) oxide red	318	64742-49-0	Petroleum ether 40 - 60°C	382
13596-46-8	Cobalt (II) ammonium sulfate	134	21908-53-2	Mercury (II) oxide yellow	318	64742-49-0	Petroleum ether 35 - 60°C	382
13598-36-2	Phosphonic acid	391	22383-16-0	Methyl green	329	64771-72-8	Petroleum	378
13600-98-1	Sodium cobalt nitrite	473	22767-49-3	1-Pentanesulphonic acid so...	375	65501-24-8	Ethylenediaminetetraacetic a...	201
13746-66-2	Potassium ferricyanide	405	22767-50-6	1-Heptanesulphonic acid so...	229	65722-60-3	Copper (II) ammonium chlor...	139
13755-38-9	Sodium nitroprusside dihyd...	494	24493-21-8	3-Trimethylsilylpropionic ac...	566	68551-19-9	Solvent Plus	507
14014-06-3	Sodium hydroxide-d 1 30%	488	24631-29-6	n,n-Dimethyl-p-phenylened...	173	75006-64-3	Diacetyldioxime sodium salt	154
14335-33-2	Orthophosphoric acid-d3 8...	366	24634-61-5	Potassium sorbate	425	81029-05-2	Brillant cresyl blue	75
14452-57-4	Magnesium peroxide	305	25155-30-0	Dodecylbenzenesulphonic a...	181	90622-57-4	Isopar G	279
14459-95-1	Carrez reagent potassium salt	112	25155-30-0	Start-up Kit Anionic surfacta...	515	91053-39-3	Kieselguhr composed	283
14459-95-1	Potassium ferrocyanide	406	25561-30-2	n,o-Bis(trimethylsilyl)-triflu...	70	92045-76-6	Paraffin 57°C-59°C	370
14519-13-2	Strontium bromide monohy...	519	25895-60-7	Sodium cyanoborohydride	473	92045-76-6	Paraffin 56-58°C without D...	370
14634-91-4	o-Phenanthroline-Iron (II) sul...	384	26628-22-8	Sodium azide	466	92045-76-6	Paraffin 56°C-58°C - Erbapl...	370
14726-36-4	Zinc dibenzylidithiocarbamate	584	28300-74-5	Antimony potassium tartrate	53	92045-76-6	Paraffin 54°C-58°C - New Er...	371
14807-96-6	Talc	536	28631-66-5	Aniline blue soluble in water	50	92045-76-6	Paraffin 51°C-53°C	371
14808-60-7	Quartz granular	438	28983-56-4	Methyl blue	327	92045-76-6	Paraffin 50°C-54°C - New Er...	371
14808-60-7	Sand of Fontainebleau	446	30525-89-4	Paraformaldehyde	373	92045-76-6	Paraffin 50°C-54°C - Erbapl...	371
14808-60-7	Sand purified	446	32503-27-8	Tetrabutylammonium bisulf...	540	92045-76-6	Paraffin 46°C-48°C	372
14808-60-7	Silicon dioxide	453	33685-54-0	Tetrachloroethane-d2	541	92045-76-6	Paraffin pellets 60°C-62°C	372
14985-18-3	Zirconyl nitrate	588	33864-99-2	Alcian Blue 8GS 1%	18	92045-76-6	Paraffin solid	372
15187-32-3	Iron (III) ammonium oxalate ...	271	33864-99-2	Alcian blue 8GX	18	93763-70-3	Dicalite 4158	155
15191-80-7	Copper (II) pyrophosphate	141	35658-65-2	Cadmium chloride monohyd...	97	101316-46-5	Petroleum ether 30 - 50°C	383
15244-10-7	Iron (III) sulfate	274	36505-52-9	Xylidyl blue I	579	101316-46-5	Petroleum ether 30 - 40°C	383
15244-38-9	Chromium (III) sulfate	130	36653-82-4	Cetyl alcohol	116	206752-32-1	Azomethine H	58
15699-18-0	Nickel (II) ammonium sulfate...	349	37247-10-2	Azure II	58			

# INDICE ALFABETICO

## A

Acetale			
Acetammide	1	Acido cloridrico 6 mol/l (6N)	244
Acetanilide	1	Acido cloridrico 5 mol/l (5N)	245
Acetilacetone	15	Acido cloridrico 4 mol/l (4N)	245
N-Acetil-L-cisteina	16	Acido cloridrico 3 mol/l (3N)	246
Acetilcolina bromuro	15	Acido cloridrico 2 mol/l (2N)	246
p-Acetilfenetidina	16	Acido cloridrico 1 mol/l (1N)	246
1-Acetil-2-fenilidrazina	16	Acido cloridrico 0,714 mol/l (N/1,4)	247
Acetofenone	15	Acido cloridrico 0,5 mol/l (0,5N)	247
Acetone	9	Acido cloridrico 0,2 mol/l (0,2N)	248
Acetone-d6	11	Acido cloridrico 0,2 mol/l (0,2N) in isopropanolo	248
Acetonitrile	12	Acido cloridrico 0,1 mol/l (0,1N)	248
Acetonitrile + 0.1% v/v di Acido Formico	14	Acido cloridrico 0,1 mol/l (0,1N) in etanolo	249
Acetonitrile + 0.1% v/v di Acido Trifluoroacetico	14	Acido cloridrico 0,0714 mol/l (N/14)	249
Acetonitrile-d3	15	Acido cloridrico 0,02 mol/l (0,02N)	249
Acido acetico glaciale	2	Acido cloridrico 0,01 mol/l (0,01N)	249
Acido acetico 96%	5	Acido cloridrico diluito	250
Acido acetico 80%	5	Acido cloridrico-d 1 mol/l	250
Acido acetico 45%	5	Acido cloridrico-d 20%	250
Acido acetico 30%	6	Acido cloridrico, bromurato	250
Acido acetico 28%	6	Acido cloroacetico	119
Acido acetico 27%	6	Acido cromotropico sale bisodico	131
Acido acetico 25%	6	Acido alfa-trans-crotonico	145
Acido acetico 17%	7	Acido L-dibenzoiltartarico anidro	155
Acido acetico 12%	7	Acido dicloroacetico	156
Acido acetico 1 mol/l (1N)	7	Acido dietilentriamminopentacetico	165
Acido acetico 0,1 mol/l (0,1N)	8	Acido dodecilbensenzolfonico sale sodico	181
Acido acetico 0,03 mol/l (0,03N)	8	Acido eptafluorobutirrico	227
Acido acetico-d4	8	Acido 1-eptansolfonico sale sodico	229
Acido adipico	17	Acido esacloroplatinico esaidrato	230
Acido 1-ammino-2-naftol-4-solfonico	27	Acido 1-esansolfonico sale sodico	234
Acido amminoippurico reagente	27	Acido etilendiamminotetracetico	197
Acido anisico	51	Acido etilendiamminotetracetico sale bipotassico	198
Acido L(+)-ascorbico	54	Acido etilendiamminotetracetico sale bisodico	198
Acido L(+)-aspartico	56	Acido etilendiamminotetracetico sale bisodico 0,1 mol/l (0,2N)	199
Acido barbiturico	59	Acido etilendiamminotetracetico sale bisodico 0,05 mol/l (0,1N)	199
Acido benzoico	66	Acido etilendiamminotetracetico sale bisodico 0,0178 mol/l (N/28)	200
Acido borico	73	Acido etilendiamminotetracetico sale bisodico 0,01 mol/l (0,02N)	200
Acido borico 4%	73	Acido etilendiamminotetracetico sale di potassio e magnesio	200
Acido borico 4% con indicatore	74	Acido etilendiamminotetracetico sale tetrasodico tetraidrato	200
Acido borico 3%	74	Acido etilendiamminotetracetico sale tripotassico	201
Acido borico 1% con indicatore	74	Acido etilenglicole	
Acido borico 20g/l con indicatore	74	bis-(2-amminoetilere)-n,n,n',n'- tetracetico	197
Acido bromidrico 48%	238	Acido 2-etilenoico	201
Acido iso-butirrico	277	Acido fenilacetico	387
Acido n-butirrico	95	Acido fluoridrico 50%	250
Acido cacodilico	95	Acido fluoridrico 47-51%	251
Acido calconcarbonico	109	Acido fluoridrico 39,5%	252
Acido n-caprilico	110	Acido fluoridrico diluito	253
Acido n-capronico	110	Acido formico 99%	213
Acido cicloesilbutirrico	149	Acido formico 85%	213
Acido citrico anidro	132	Acido formico-d	214
Acido citrico monoidrato	132	Acido fosfomolibdico	391
Acido cloranilico	118	Acido fosfonico	391
Acido cloridrico 37%	239	Acido fosforico 99%	365
Acido cloridrico 34-37%	240	Acido fosforico 85%	365
Acido cloridrico 32-35%	241	Acido fosforico 75%	366
Acido cloridrico 32% (20°Bé)	241	Acido fosforico-d3 85% in D20	366
Acido cloridrico 32%	241	Acido ipofosforoso 50%	257
Acido cloridrico 26%	242	Acido fosfosolfonico	392
Acido cloridrico 25% p/v	242	Acido fosfotungstico	393
Acido cloridrico 23%	242	Acido fosfotungstico in soluzione	393
Acido cloridrico 20%	243	Acido ftalico	393
Acido cloridrico 12%	243	Acido fumarico	215
Acido cloridrico 10%	243		
Acido cloridrico 8%	243		
Acido cloridrico 5%	244		
Acido cloridrico 1,128% (p/v)	244		
		Acido gallico monoidrato	216
		Acido glicolico	222
		Acido L(+)-glutammico	219
		Acido iodidrico 57%	238
		Acido ippurico	235
		Acido lattico	285
		Acido maleico	307
		Acido DL-malico	308
		Acido malonico	308
		Acido D(-)-mandelico	309
		Acido DL-mandelico	309
		Acido L(+)-mandelico	309
		Acido metafosforico	319
		Acido metansolfonico	320
		Acido alfa-metossifenilacetico	326
		Acido nicotinic	351
		Acido nitrico fumante 90%	352
		Acido nitrico 69,5%	353
		Acido nitrico 67-70%	354
		Acido nitrico 67-69%	354
		Acido nitrico 67,5% (42°Bé)	355
		Acido nitrico 65%	355
		Acido nitrico 18%	356
		Acido nitrico 8 mol/l (8N)	356
		Acido nitrico 7 mol/l (7N)	356
		Acido nitrico 2 mol/l (2N)	357
		Acido nitrico 1 mol/l (1N)	357
		Acido nitrico 0,1 mol/l (0,1N)	357
		Acido nitrico diluito	357
		Acido nitrilotriacetico	358
		Acido m-nitrobenzoico	358
		Acido 4-nitrofenilfosforico sale bisodico	360
		Acido 1-nitroso-2-naftol-3,6-disolfonico sale bisodico	360
		Acido nitrosonitrico	360
		Acido 1-octansolfonico sale sodico	363
		Acido oleico	363
		Acido ossalico diidrato	367
		Acido ossalico 0,5 mol/l	367
		Acido ossalico 0,05 mol/l	368
		Acido ossalico 0,005 mol/l	368
		Acido 1-pentansolfonico sale sodico	375
		Acido perclorico 70%	376
		Acido perclorico 65%	376
		Acido perclorico 60%	377
		Acido perclorico 0,1 mol/l (0,1N)	377
		Acido perclorico 0,1 mol/l (0,1N) in acido acetico anidro	377
		Acido perclorico 0,01 mol/l (0,01N)	378
		Acido perclorico soluzione	378
		Acido periodico	378
		Acido picrico soluzione	394
		Acido pirrolidinditiocarbammico sale ammonico	438
		Acido propionico	433
		Acido p-rosolico	443
		Acido salicilico	445
		Acido sebacico	447
		Acido selenioso	449
		Acido silicotungstico	454
		Acido solfammino	523
		Acido solfanilico	524
		Acido solforico 98%	526
		Acido solforico 96% (66°Bé)	526
		Acido solforico 96%	527
		Acido solforico 93-98%	528
		Acido solforico 90-91%	529
		Acido solforico 72%	529
		Acido solforico 69%	529
		Acido solforico 62%	530
		Acido solforico 50%	530

Acido solforico 35% (30°Bé)	530	Alcole etilico assoluto denaturato con 2% di metiletilchetone	192	Ammoniaca soluzione 25%	30
Acido solforico 25 %	530	Alcole etilico 95° denaturato	191	Ammoniaca soluzione 20%	31
Acido solforico 20%	531	Alcole etilico 94° denaturato	191	Ammoniaca soluzione 17%	32
Acido solforico 10% V/V	531	Alcole etilico 90° denaturato	191	Ammoniaca soluzione 10%	32
Acido solforico 4 mol/l (8N)	531	Alcole etilico 70° modificato	192	Ammoniaca soluzione diluita	32
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