

PRODUCT INNOVATION



Your partner in choice for Innovative Solvents

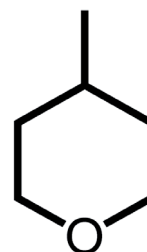
CARLO ERBA
REAGENTS

MTHP : 4-Methyltetrahydropyran A new hydrophobic solvent

Chemicals

CARLO ERBA Reagents is pleased to offer a **new versatile solvent** : 4-Methyltetrahydropyran (MTHP).

This new hydrophobic cyclic ether is an excellent substitute to THF or 2-Methyl THF in various applications (Grignard reactions, LAH reduction, cross coupling, etc...).

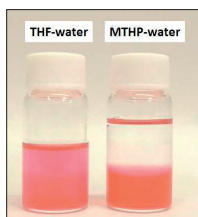


CAS : 4717-96-8
Mw : 100.16 g/mol
Formule : C₆H₁₂O
BP : 105 °C

Advantages :

• **Highly hydrophobic**

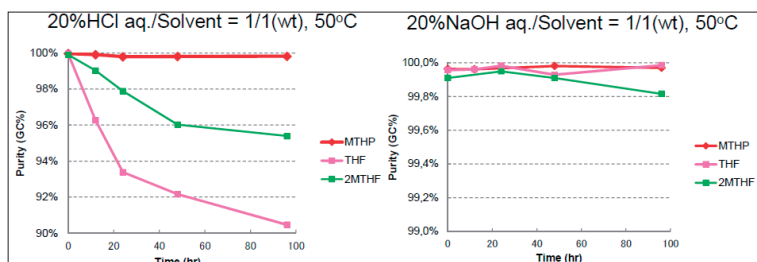
MTHP can easily be separated from water and form azeotropes making it the solvent of choice for azeotropic dehydration (esters and acetal synthesis, etc...) saving time by eliminating the extraction step during synthesis, increasing your yields and allowing an easy recycling of the solvent. MTHP offers the added advantage of only containing up to 100 ppm of water.



• **High stability in acidic and basic conditions**

MTHP can be used under acido-basic conditions in reactions such as esterification and acetalization with an acidic catalyst, cationic polymerization using acid chlorides, reduction with LAH, etc...

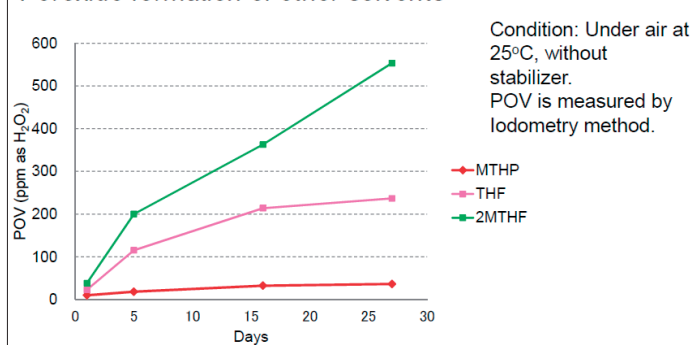
• **Oxidation stability**



• **High solvability**

MTHP has the same properties as THF and can therefore dissolve polar compounds

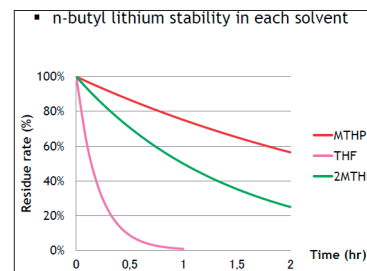
Peroxide formation of ether solvents



• **Higher boiling point than THF**

Boiling point of 105 °C

• **Alkyl lithium Stability**



CARLO ERBA Reagents S.A.S. Chaussée du Vexin 27106 Val de Reuil Cedex - FRANCE



Tel. +33 2 32 09 20 00

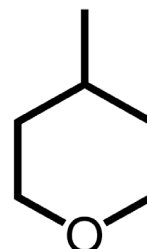


export@cer.dgroup.it






www.carloerbareagents.com

○ MTHP : 4-Methyltetrahydropyran A new hydrophobic solvent



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One of the main advantage of MTHP, over other ethers used as solvents, is its CLP classification. MTHP is less toxic than its counterparts, offering a reduction of risks during its use as shown in the table below.

MTHP	THF	Me-THF
<ul style="list-style-type: none"> Hazard pictograms :  GHS02 GHS07 Signal word : Danger Hazard statements : H225 Highly flammable liquid and vapour. H302 Harmful if swallowed. 	<ul style="list-style-type: none"> Hazard pictograms :  GHS02 GHS07 GHS08 Signal word : Danger Hazard statements : H225 Highly flammable liquid and vapour. H319 Causes serious eye irritation. H351 Suspected of causing cancer. H335 May cause respiratory irritation. 	<ul style="list-style-type: none"> Hazard pictograms :  GHS02 GHS05 GHS07 Signal word : Danger Hazard statements : H225 Highly flammable liquid and vapour. H302 Harmful if swallowed. H318 Causes serious eye damage. H335 May cause respiratory irritation.

CARLO ERBA Reagents is introducing MTHP in quality "RE - Pure for synthesis" stabilized with BHT, suitable for all organic synthesis procedures.

Product	Pkg	Code
4-Methyltetrahydropyran	500ml	P9990218
	1l	P9990216
	2.5l	P9990221

Standard Analysis Certificate		
PRODUCT	:4-METHYLTETRAHYDROPYRAN PURE, Synthesis grade	
CODE	:P99902	
TEST	U.M.	SPECIFICATION
Colour	Hazen	<= 10
Appearance	-	Clear, colourless liquid
Density at 20°C	-	0.855 - 0.865
Stabilizer (ionol)	mg/Kg	50
Assay (GC)	%	>= 99.0
Stabilizer ionol : 2,6-di-tert-butyl-4-methylphenol ; BHT		

For more information on applications, available publications, prices, contact our customer service or your local distributor

