

Technical Data Sheet

TamiSolve® CB

Chemical Synonym

Choline Hydroxide 45%; C-base

Applications

- Agriculture intermediates
- Electronic chemicals

Product Description

TamiSolve CB is a strong organic base. It finds its main application in cleaning and degreasing of metal surfaces.

TamiSolve CB tends to decompose slowly upon storage and when heated, resulting in release of trimethylamine and discoloration of the liquid. Eastman developed a stabilizer to cope with these unwanted effects. The stabilizer is based on high boiling organic compounds, avoiding the introduction of mineral anionic components.

TamiSolve CB is a 45% aqueous solution.

TamiSolve CB can be used as cleaning and degreasing agent in the metal industry. Removal of grease from carbodies, before phosphatation and application of the CED – coating, is a typical example.

TamiSolve CB can be used for neutralization purposes.

TamiSolve CB can be used in paint stripping formulations.

TamiSolve CB can be used as a corrosion inhibitor.

TamiSolve CB can be used for the synthesis of choline salts.

Typical Properties

Property	Typical Value, Units
General	
Molecular Formula	C ₅ H ₁₅ NO ₂
Molecular Weight	121.2 g/mol
Appearance	Colorless to light brown liquid
Autoignition Temperature	380 °C
Boiling Point	90-99 °C
Density	
@ 20°C	1.08 g/cm ³
Dissociation constant, pKa	11.2
Flash Point	
Closed Cup	>99 °C
Freezing Point	<-20 °C
Octanol-water partition coefficient, log Pow	
@ 25°C	-2.25

pH	14.9
Vapor Pressure @ 25°C	28.284 hPa
Viscosity @ 20°C	25.3 mPa·s
Water solubility	Soluble

Principal chemical properties

Formation of salts, saponification

TamiSolve® CB will react with all acids, resulting in the production of the corresponding salt.

TamiSolve® CB can be used for the saponification of esters, like vegetable oils and greases, ester based photomasks, ...

Stability

TamiSolve® CB decomposes in the absence of amines. The decomposition is accelerated by heat. During decomposition trimethylamine is formed, as a result the product will have a fishy odor. Aldehydes which are formed during the decomposition will result in discolorisation.

Packaging

- Bulk
- PE drums (224 kg net)

Storage

TamiSolve CB can be stored in a stainless steel storage tank or in its original packaging. Keep the storage tank under a nitrogen blanket to minimise the risk of discolorisation. Minimise the contact with air. If possible keep the product in a cool area or a cooled tank.

TamiSolve CB is a corrosive liquid. Wear suitable protective clothing, gloves and goggles when handling the product.

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