

**PETROPLAST
JALILVAND.CO**



**петрупдоте жалилванд
компания**

Exclusive Representative of selling shazand

Petrochemical Products in uzbekistan

TECHNICAL SPECIFICATION

Monoethylene Glycol

<i>Product Name</i>	MEG
<i>Application</i>	<p>Polyester fibers, threads, films and polyester resins are produced from the reaction between MONOETHYLENEGLYCOL with dibasic acids and their esters, such as terephthalic, oxalic, succinic, glutamic and adipic acids among others. The polyterephthalate fibers of MONOETHYLENEGLYCOL are widely used in the textile industry and known commercially as Tergal, Terilene, Dacron and Trevira among other names. Due to their high mechanical resistance, excellent dielectric properties and low hygroscopicity, polyester films are used to produce photographic films, magnetic tapes and packaging. MONOETHYLENEGLYCOL is used in the synthesis of polyethylene terephthalate (PET), which is frequently used in the packaging of foodstuff and carbonated beverages. MONOETHYLENEGLYCOL is used in the synthesis of unsaturated polyester resins, alkyd resins, rosin esters and polyurethane resins. It acts as a coalescence and anti-freezing agent in emulsified resins. Used together with adipic acid and other glycols, rubber with a high chemical and abrasion resistance can be synthesized. Resins produced from oleic acid and MONOETHYLENEGLYCOL, known as alkyd resins, are used frequently in the industry of paints and varnishes.</p>

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Monoethylene Glycol (MEG)

Other Application

MONOETHYLENEGLYCOL can be used as wetting and plasticizing agent in the production of cellophane, glues and adhesives, textiles, printing ink, leather, cosmetics, paper and pharmaceutical products. MONOETHYLENEGLYCOL is used in industrial refrigeration circuits and internal combustion engine coolant systems with the purpose of raising the boiling point and reducing the freezing point of the solution used. For this application, an anticorrosive must be added to MONOETHYLENEGLYCOL to prevent the system from suffering water corrosion. DIETHYLENEGLYCOL can be used in antifreeze formulations in proportions of up to 10% together with MONOETHYLENEGLYCOL. The various quantitative ratios between these components are suitable for specific applications in the field of industrial refrigeration. Ethyleneglycols can also be used in the formulation of printing ink, in the treatment of gases, in the formulation of fire-resistant hydraulic fluids, in the formulation of cutting oils, in the formulation of surface polishers, in the formulations of agrochemicals, in the extraction of solvents, in the manufacture of pigmented pastes and putty for walls, and in the synthesis of explosives.

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Typical Properties	Test Method	Unit	Spec.
Purity	ASTM E202	wt%	99.8 Min
Diethylene Glycol	ASTM E202	wt%	0.08 Max
Water Content	ASTM E203	wt%	0.08 Max
Acidity Acetic Acid	ASTM D1613	wt.PPM	10 Max
Ash	DC 254A	gr/100ml	0.005 Max
Chlorides	EO 635	wt.PPM	0.1 Max
Iron	ASTM E202	wt.PPM	0.1 Max
Aldehyde as Acetaldehyde	DC 163C	wt.PPM	10 Max
Color Pt-Co	ASTM D1209	Pt-Co	5 Max
Sp. Gr (20/20°C)	ASTM D891	-	1.1151-1.1156
Distillation at 760 mm-Hg			
IBP	ASTM D1078	°C	196 Min
DP	ASTM D1078	°C	199 Max
5-95 Vol.% Range	ASTM D1078	°C	1 Max
UV Transmittance			
at 220 nm	EO 577A	T%	70 Min
at 275 nm	EO 577A	T%	95 Min
at 350 nm	EO 577A	T%	99 Min

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