



# MONOETHYLENE GLYCOL

## DESCRIPTION

Monoethylene glycol (Ethylene glycol) is a colorless, virtually odorless and slightly viscous liquid. It is miscible with water, alcohols, aldehydes and many organic compounds. MEG will not dissolve rubber, cellulose acetate or heavy vegetable and petroleum oils. MEG has a low volatility and it is 50% more hygroscopic than glycerol at room temperature.

## TYPICAL PROPERTY VALUES

Revision 20220421

SPECIFICATIONS	TYPICAL VALUES	UNITS	TEST METHODS
<b>SPECIFICATIONS</b>			
<b>Drum or Truck or Flexi Bag or ISO Tank</b>			
Purity	≥99.9	Wt. %	ASTM E2409
Appearance	Clear	Visual	ASTM E2680
Specific Gravity @ 20°C/20°C	1.1151 – 1.1156	-	ASTM D4052
Water	≤0.2	Wt. %	ASTM E1064
Acetic Acid	≤0.002	Wt. %	ASTM D1613
Color	≤10	APHA	-
Chlorides	≤0.5	ppm Wt.	ASTM E2469
Ash	≤0.01	Wt. %	ASTM D482
<b>Bulk shipment</b>			
Purity	≥99.9	Wt. %	ASTM E2409
Appearance	Clear	Visual	ASTM E2680
Specific Gravity @ 20°C/20°C	1.1153 – 1.1156	-	ASTM D4052
Distillation Range @ 760 mmHg	196 – 199	°C	ASTM D1078
Water	≤0.05	Wt. %	ASTM E1064
DEG Content	≤0.05	Wt. %	ASTM E2409
Acetic Acid	≤0.001	Wt. %	ASTM D1613
Color	≤5	APHA	-
Iron (Fe)	≤0.1	ppm Wt.	ASTM E394
Wave Length % 220	>70	nm	ASTM E2193
Wave Length % 275	>90	nm	ASTM E2193
Wave Length % 350	>98	nm	ASTM E2193
Acetaldehyde	≤10	ppm Wt.	ASTM E2313
Chloride	≤0.5	ppm Wt.	ASTM E2469
Ash	≤0.001	Wt. %	ASTM D482
PH @ 20°C	6.5 – 7.5	-	ASTM D1287

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>PROPERTIES</b>			
<b>Molecular Weight</b>	62.08	g/mol	
<b>Boiling Point</b>			
-	197	°C	-
<b>Melting / Freezing Point</b>			

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
-	-13	°C	-
<b>Specific heat</b>			
@ 0°C	0.543	cal/gm/°C	-
<b>Viscosity</b>			
@ 20 °C	20	cP	-

## APPLICATIONS

MEG is mainly used in the production of polyester, commonly known as "PET" polyethylene terephthalate (fiber and packaging grade) and antifreeze solution.

It is an important dehydrating agent, good humectant and an industrial solvent.

## TOXICITY AND SAFETY

Refer to SDS

## STORAGE AND HANDLING

Refer to SDS

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