

## 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 20211222

SPECIFICATIONS	TYPICAL VALUES	UNITS	TEST METHODS
<b>SPECIFICATIONS</b>			
<b>Purity</b>			
All shipments	≥99.9	Wt. %	ASTM E2409
<b>Appearance</b>			
All shipments	Clear	Visual	ASTM E2680
<b>Specific Gravity</b>			
@ 20°C / 20°C (All shipments)	1.1153 – 1.1156	-	ASTM D4052
<b>Chlorides</b>			
All shipments	≤0.5	ppm Wt.	ASTM E2469
<b>Ash</b>			
Drum or Truck shipment	≤0.01	Wt. %	ASTM D482
Bulk shipment	≤0.001	Wt. %	ASTM D482
<b>Water</b>			
Drum or Truck shipment	≤0.2	Wt. %	ASTM E1064
Bulk shipment	≤0.05	Wt. %	ASTM E1064
<b>Acidity</b>			
as Acetic Acid (Drum or Truck shipment)	≤0.002	Wt. %	ASTM D1613
as Acetic Acid (Bulk shipment)	≤0.001	Wt. %	ASTM D1613
<b>Color</b>			
Drum or Truck shipment	≤10	APHA	ASTM D1209
Bulk shipment	≤5	APHA	ASTM D1209
<b>Iron</b>			
Fe (Drum or Truck shipment)	≤0.5	ppm Wt.	ASTM E394
Fe (Bulk shipment)	≤0.1	ppm Wt.	ASTM E394
<b>Distillation Range</b>			
@ 760 mmHg (Bulk shipment)	196 – 199	°C	ASTM D1078
<b>DEG Content</b>			
Bulk shipment	≤0.05	Wt. %	ASTM E2409
<b>Wave Length</b>			
% 220 (Bulk shipment)	>70	nm	ASTM E2193
% 275 (Bulk shipment)	>90	nm	ASTM E2193
% 350 (Bulk shipment)	>98	nm	ASTM E2193
<b>Aldehyde</b>			
as Acetaldehyde (Bulk shipment)	≤10	ppm Wt.	ASTM E2313
<b>PH</b>			
@ 20°C (Bulk shipment)	6.5 – 7.5	-	ASTM D1287

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>PROPERTIES</b>			
Molecular Weight	62.08	g/mol	
Boiling Point			
-	197	°C	-
Melting / Freezing Point			
-	-13	°C	-
Specific heat			
@ 0°C	0.543	cal/gm/°C	-
Viscosity			
@ 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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