

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
SPECIFICATIONS			
Drum or Truck or Flexi Bag or ISO Tank			
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
Bulk shipment			
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
PROPERTIES			
Molecular Weight	62.08	g/mol	
Boiling Point			
-	197	°C	-
Melting / Freezing Point			

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
-	-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

DISCLAIMER

Any sale by SABIC, its subsidiaries and affiliates (each a "seller"), is made exclusively under seller's standard conditions of sale (available upon request) unless agreed otherwise in writing and signed on behalf of the seller. While the information contained herein is given in good faith, SELLER MAKES NO WARRANTY, EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY AND NONINFRINGEMENT OF INTELLECTUAL PROPERTY, NOR ASSUMES ANY LIABILITY, DIRECT OR INDIRECT, WITH RESPECT TO THE PERFORMANCE, SUITABILITY OR FITNESS FOR INTENDED USE OR PURPOSE OF THESE PRODUCTS IN ANY APPLICATION. Each customer must determine the suitability of seller materials for the customer's particular use through appropriate testing and analysis. No statement by seller concerning a possible use of any product, service or design is intended, or should be construed, to grant any license under any patent or other intellectual property right.