

Ethylene Glycol Product Specifications

Monoethylene Glycol

Industrial Grade

Product Code: Bulk - 5013 CAS#: 107-21-1

Description

Monoethylene glycol is a colorless, odorless, and slightly viscous liquid, more hygroscopic than glycerol and miscible with water in all proportions. It is used as a chemical intermediate in the manufacture of esters and ethers, and as a component in heat transfer media, hydraulic fluids, de-icing fluids and plasticizers. It is also an electrolyte constituent for electrolytic condensers and can be used as a humectant.

Specifications

Specifications	Value
Appearance	Substantially free of suspended matter
Monoethylene glycol, wt. % min.	99.0
Diethylene glycol, wt. % max.	0.5
Other glycols, wt. % max.	0.1
Color (APHA) max.	10
Acidity (as acetic acid), wt. % max.	0.005
Ash, wt. % max.	0.005
Distillation range at 760 mm Hg	
Initial boiling point, min. °C (°F)	193 (379)
Dry point, max. °C (°F)	201 (394)
Water, wt. % max.	0.2

Typical Properties

Typical Properties	Value
Molecular weight	62.07
Boiling point at 760 mm Hg, °C (°F)	197.6 (387.1)
Freezing point, °C (°F)	-13 (8.6)
Flash point (PMCC), °C (°F)	118 (244)
Specific gravity at 20/20°C	1.1154
Specific heat at 20°C, cal/g°C	0.56
Absolute viscosity	
at 4°C, cP	45.0
at 20°C, cP	20.9
at 60°C, cP	5.2
Refractive index at 20°C	1.4316

Typical Properties

Typical Properties	Value
Latent heat of vaporization at 760 mm Hg	
joules/g	800
cal/g	191
BTU/lb	364
Coefficient of expansion per °C at 20°C	0.00062
Surface tension at 20°C, dyne/cm	48.4
Thermal conductivity at 20°C	
watt/m°C	0.289
cal/cm/sec cm ² °C	0.00069
Vapor pressure at 20°C, mm Hg	0.06
Electrical conductivity at 20°C, mho/cm	3 x 10 ⁻⁷
Weight/gal. (U.S.) in lbs. at 20°C	9.28

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Lyondell Chemical Company
1221 McKinney, Suite 700
P.O. Box 2583
Houston, Texas 77252-2583
(800) 615-8999
<http://www.equistarchem.com>

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