

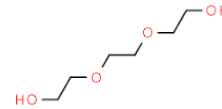
TRIETHYLENE GLYCOL



2,2'-(1,2-ethanediylbis(oxy)) ethanol (TEG)

CAS Number: **112-27-6**

Formula: C₆H₁₄O₄



DESCRIPTION:

Triethylene Glycol (TEG) is a clear, colorless and odorless liquid with a moderate viscosity. It is hygroscopic, miscible in water and many other organic solvents. TEG is versatile since its hydroxyl groups can undergo a wide variety of reactions, providing the opportunity for a wide variety of derivatives. Thus, its use in a variety of applications.

APPLICATION:

TEG is used as a cement grinding aid that can also acts as a mild retarder or accelerator depending on the concentration used. It is used to strip water, carbon dioxide, hydrogen sulfide and other gases out of natural gas. It is used in the manufacture of emulsifiers, lubricants, heat-transfer fluids, textiles, vinyl and other polymers. It is used as a chemical intermediate in a variety of industrial processes.

	Specification	Result
<u>Specific gravity at 20/20 °C</u> (method ASTM D 4052)	>=1.124 <=1.126	1.1254
<u>Distillation at 101.3 kPa</u> (760 mm Hg) (method ASTM D 1078)		
- initial boiling point, °C	>=280	288.1
- 5 % recovered, °C	>=280 <=295	288.5
- 95 % recovered, °C	>=280 <=295	289.6
- dry point, °C	<=295	290.9
<u>Water, % weight</u> (method ASTM E 1064)	<=0.1	0.004
<u>Colour, APHA scale</u> (method ASTM D 1209)	<=25	10
<u>Gas chromatographic analysis</u> (method ASTM E 2409)		
- triethylene glycol, % weight	>=99	99.91
- diethylene glycol, % weight	<=0.5	0.0812
- heavy ends, % weight	<=0.5	<0.0010
<u>Ash content, % weight</u> (method ASTM D 482)	<=0.01	<0.001
<u>Appearance</u> (method ASTM E2680)	(01)	(01)

⁽⁰¹⁾ clear and bright liquid

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