

Triethylene Glycol (TEG)

Product 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.

Applications:

TEG is used as a cement grinding aid that can also act 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.

Chemical Formula:

$C_6H_{14}O_4$

CAS No. :

112-27-6

Specifications:

Parameters (units)	Specifications
Appearance	Clear and colorless liquid, free of suspended matter
Specific gravity, at 20 °C	1.124 - 1.126
Viscosity, at 40 °C (cSt)	Approx. 17.39
Refractive index, at 20 °C	Approx. 1.4539
TEG content (wt %)	≥ 99.0
DEG content (wt %)	≤ 1.0
Tetra and Heavier EG content (wt %)	≤ 0.5
Water content (wt %)	≤ 0.05
Distillation range, 5 - 95% vol at 760 mm Hg (°C)	280 - 295
Flash point, PMCC (°C)	Approx. 166
Melting point (°C)	Approx. - 7
Color, Pt-Co (mg Pt/L)	≤ 25
Acidity, as acetic acid (ppm)	≤ 14
Ash content (ppm)	≤ 50
Aldehydes, as formaldehyde (ppm)	≤ 0.7