

Technical Data Sheet

Triethylene Glycol (TEG)

Tri ethylene glycol is a colorless transparent liquid and has very little odor. This compound has a high viscosity. As the name implies, this product is composed of two materials called diethylene glycol and ethylene. This chemical is used as a conditioner whether it is the preparation of vinyl polymers and disinfectant products. In other words, this chemical is obtained from hydration of ethylene oxide (mono, die and tri) from ethylene glycol.

Applications:

Application in natural gas industry The most common application of this compound is moisture absorption. It is used in the gas and oil industry to absorb moisture, and it is also possible to absorb moisture from other gases such as CO₂ H₂S and other oxygenated gases.

Application for disinfection and elimination of bacteria.This chemical is used as a gentle disinfectant, against a variety of bacteria as well as silium neutatom fungus. The low toxicity of this compound, low odor and antiviral and microbial properties make it ideal to use this compound to disinfect air in small spaces.

Application of triethylene glycol to eliminate viruses It is interesting to note that the ability of this chemical to eliminate the influenza A virus was reported around 1943.

Properties	Result	Units	Test Method	Spec
Purity	99.82	wt %	ASTM E-202	99.5(min)
DEG	0.13	wt %	ASTM E-202	0.5(max)
PEG	Nil	wt %	ASTM E-202	0.1(max)
Water Content	0.03	wt %	ASTM E-203	0.05(max)
Specific gravity 20/20 °c	1.125	--	ASTM D-4052	1.124-1.126
Color (Pt-Co)	9	Pt-Co	ASTM D-1209	25(max)
Distillation B.P(5% VOL)	287.3	°c	ASTM D-1078	280(min)
Distillation E.P(95% VOL)	291.3	°c	ASTM D-1078	295(min)
Ash	Nil	ppm	ASTM D-482	50(max)
Appearance	c.c.l	---	VISUAL	c.c.l