

PROPLYENE GLYCOL (USP)



CAS Number: 57-55-6

Other Names: Propane-1,2-diol; α -Propylene glycol; 1,2-Propanediol;
1,2-Dihydroxypropane; Methyl ethyl glycol; Methylethylene glycol

Formula: $C_3H_8O_2$

PRODUCT INTRODUCTION

Propylene Glycol is a propanediol having chemical formula $C_3H_8O_2$. It is colourless, viscous, hygroscopic, low-melting and high-boiling liquid with low toxicity, it is used as a solvent, emulsifying agent, and antifreeze.

PHYSICAL AND CHEMICAL PROPERTIES

Identification	Pass
Appearance	Clear
MPG (wt%)	99.92
Specific Gravity (20/20°C)	1.038
Specific Gravity USP (25/25°C)	1.036
Chloride (ppm)	0.1
Sulfate (ppm)	0.0
Acidity (ml)	0.02
Fe (ppm)	0.02
Heavy metal as Pb (ppm)	LT1.0
Residue on Ignition (ppm)	5.0
Water (ppm)	100
Colour (APHA)	2.0
IBP (°C)	186.2
DP (°C)	187.4
EG (ppm)	0
DEG (ppm)	0

APPLICATION

- Propylene glycol USP is used as emulsifier in cosmetics and pharmaceuticals because it has been deemed safe.
- It is widely used as solvent in elixirs and other liquid medications..
- It acts coupling agent in sunscreens, lotions, shampoos, shaving creams, etc.
- Another major use of propylene glycol is as humectant, preservative and stabilizer in pet food, bakery goods, salad dressings and other food flavorings
- Commonly used as plasticizer for hair sprays, hand sanitizers and moisturizing creams

PACKAGING OPTIONS

Drums

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