

Propylene Glycol

Solvent and humectant

Product Description

Propylene Glycol (PG) is a multifunctional solvent and humectant used in pharmaceutical formulations, cosmetics, food and industrial applications. Available in USP and industrial grades.

Certificate of Analysis

HSN Code: 2905.32

CAS Number: 57-55-6

Classification: Non-Hazardous – Pharmaceutical

Parameter	Specification	Test Method
Appearance	Clear colorless viscous liquid	Visual
Assay	99.5–100.5%	GC / USP method
Identification	IR spectrum conforms	IR Spectroscopy
Density at 25°C	1.035–1.037 g/cm ³	ASTM D4052
Water Content	"d 0.2 %	Karl Fischer
Acidity (as Acetic Acid)	"d 0.007 %	Titration
Distillation Range	185–189°C	ASTM D1078
Heavy Metals (as Pb)	"d 5 ppm	ICP-MS

Physical Properties

Appearance: Clear colorless odorless viscous liquid

Odor: Practically odorless, slightly sweet taste

Molecular Formula: $C_3H_8O_2$

Molecular Weight: 76.09 g/mol

Solubility: Miscible with water, ethanol, acetone

Density: 1.036 g/cm³ at 25°C

Boiling Point: 188.2°C

Packing: 25 kg / 230 kg HDPE drums; IBC 1000 L; ISO tank for bulk; 5 L / 25 L HDPE cans for pharma use

Storage: Store in cool, dry, well-ventilated area in sealed HDPE containers. Keep away from strong oxidizers.

Safety & Handling

PPE: Gloves, safety goggles for bulk handling

Hazards:

- Low toxicity – Generally Recognized As Safe (GRAS) for food/pharma use
- Mild eye irritant in concentrated form