

PRODUCT IDENTIFICATION



Product Name: Propylene Glycol 20% USP GRADE

CAS Number: 57-55-6

Molecular Formula: $C_3H_8O_2$

Molecular Weight: 76.09 g/mol

Grade: USP Grade

Purity / Concentration: 20%

Synonyms: Not Available

PRODUCT OVERVIEW

Propylene Glycol 20% USP Grade is a high-purity, clear, and colorless liquid formulated for consistent performance in sensitive applications. This aqueous solution features a specific gravity of 1.012 and is widely utilized in professional laboratory and industrial settings requiring strict quality control.

Grade Significance: USP Grade certification ensures that the product meets the rigorous standards set by the United States Pharmacopeia for purity, quality, and safety in pharmaceutical and food-grade applications.

CERTIFICATE OF ANALYSIS — TYPICAL VALUES

Certificate of Analysis data not available for this product.

PHYSICAL & CHEMICAL PROPERTIES

Appearance	Clear, colorless liquid	Form	Liquid
Boiling Point	188°C (370°F)	Melting / Freezing Point	-59°C (-74°F)
Flash Point	104°C (pure)	Specific Gravity	1.012
Solubility	Fully miscible with water	Molecular Formula	$C_3H_8O_2$
Molecular Weight	76.09 g/mol		

APPLICATIONS

- Pharmaceuticals** — Utilized as a high-quality solvent or carrier for active ingredients in various medicinal formulations.
- Food and Beverage** — Serves as a food-grade humectant and preservative to maintain moisture levels and extend shelf life in processed items.
- Cosmetics and Personal Care** — Functions as an effective skin conditioning agent and viscosity controller in lotions, creams, and shampoos.
- HVAC and Refrigeration** — Used as a non-toxic heat transfer fluid in closed-loop systems where thermal stability is required.
- Laboratory Research** — Provides a stable, high-purity medium for chemical analysis and reagent preparation.

STORAGE & HANDLING

Proper storage in a cool, dry, and well-ventilated area is essential to maintain the integrity and purity of this USP-grade product. While it is not classified as a hazardous substance, keeping containers tightly sealed prevents contamination and ensures the chemical remains stable for its intended use.

AVAILABLE PACKAGING

- 1 Quart
- 1 Gallon
- 5 Gallon
- 15 Gallon
- 55 Gallon
- 275 Gallon
- 330 Gallon

SAFETY SUMMARY (CROSS-REFERENCE TO SDS)

Signal Word: **Warning**

No GHS pictograms assigned.

Hazard Statements:

- Not Classified
- Reported as not meeting GHS hazard criteria by 6762 of 6899 companies (only 2% companies provided GHS information). For more detailed information, please visit ECHA C&L website.

Emergency Contact: CHEMTEL - 800-255-3924 (24 Hours/Day, 7 Days/Week)

For complete safety information, refer to the Safety Data Sheet (SDS) for this product.

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