

PRODUCT IDENTIFICATION



Product Name: Propylene Glycol 60% USP Grade

CAS Number: 57-55-6

Molecular Formula: $C_3H_8O_2$

Molecular Weight: 76.09 g/mol

Grade: USP Grade

Purity / Concentration: 60%

Synonyms: Not Available

PRODUCT OVERVIEW

Propylene Glycol 60% USP Grade is a high-quality, clear, and colorless liquid formulated for consistent performance in various industrial and laboratory applications. This product maintains a precise 60% concentration to ensure reliable results while adhering to strict USP quality standards.

Grade Significance: USP Grade signifies that the product meets the rigorous quality, purity, and safety standards set by the United States Pharmacopeia, ensuring it is suitable for sensitive applications.

CERTIFICATE OF ANALYSIS — TYPICAL VALUES

Certificate of Analysis data not available for this product.

PHYSICAL & CHEMICAL PROPERTIES

Appearance	Clear, colorless, slightly viscous liquid	Form	Liquid
Boiling Point	188°C (370°F)	Melting / Freezing Point	-59°C (-74°F)
Flash Point	104°C (pure)	Specific Gravity	1.043
Solubility	Fully miscible with water	Molecular Formula	$C_3H_8O_2$
Molecular Weight	76.09 g/mol		

APPLICATIONS

- Pharmaceuticals** — Utilized as a solvent or carrier in the preparation of various medicinal formulations where high-purity ingredients are essential.
- Food Processing** — Serves as a food-grade humectant and solvent for flavorings and food coloring additives, ensuring safety and stability.
- Cosmetics and Personal Care** — Acts as a moisturizer and viscosity-controlling agent in lotions, shampoos, and skincare products to improve texture and shelf life.
- Laboratory Research** — Used as a stable reagent and solvent for chemical synthesis and analytical testing procedures requiring a USP-grade medium.
- HVAC and Refrigeration** — Employed as a heat transfer fluid in systems where non-toxic properties are required for safety and environmental compliance.

STORAGE & HANDLING

Proper storage in a cool, dry, and well-ventilated area is critical to maintaining the chemical integrity and purity of Propylene Glycol. Because it is hygroscopic, keeping containers tightly sealed prevents moisture absorption that could alter the concentration and performance of the product.

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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