

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 clear, colorless, and slightly viscous liquid formulated for consistent performance in various industrial and laboratory settings. This aqueous solution features a specific gravity of 1.051 and is designed to provide stable, non-flammable utility for sensitive applications.

Grade Significance: USP Grade signifies that the product meets the stringent quality and purity standards set by the United States Pharmacopeia, ensuring it is safe and reliable for sensitive end-use 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	~107 °C	Melting / Freezing Point	-51 °C (freeze / crystallization onset)
Flash Point	Not flammable (aqueous solution)	Specific Gravity	1.051
Solubility	Fully miscible with water	Molecular Formula	$C_3H_8O_2$
Molecular Weight	76.09 g/mol		

APPLICATIONS

- Pharmaceutical Manufacturing** — Utilized as a high-purity solvent and carrier for various active ingredients in formulations requiring strict USP standards.
- Food and Beverage** — Serves as a food-grade humectant and solvent to maintain moisture levels and preserve the quality of processed food products.
- Cosmetics and Personal Care** — Acts as an effective skin conditioning agent and viscosity-decreasing agent in lotions, creams, and various personal care formulations.
- Laboratory Research** — Provides a reliable, inert medium for chemical synthesis, analytical testing, and general laboratory reagent purposes.
- HVAC and Refrigeration** — Functions as a heat transfer fluid in systems where a non-toxic, USP-compliant solution is required for safety.

STORAGE & HANDLING

Proper storage is essential to maintain the integrity and purity of the 60% USP solution, as exposure to contaminants can alter its chemical properties. While this product is not classified as hazardous, it should be kept in a cool, dry, and well-ventilated area to prevent degradation and ensure long-term shelf stability.

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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