

PRODUCT IDENTIFICATION



Product Name: Propylene Glycol 20% USP GRADE

CAS Number: 57-55-6

Molecular Formula: C₃H₈O₂

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-quality, aqueous solution formulated to meet rigorous United States Pharmacopeia standards. This clear, colorless liquid is designed for consistent performance in sensitive industrial and laboratory environments.

Grade Significance: USP Grade signifies that the product meets the stringent quality and purity standards established by the United States Pharmacopeia, ensuring it is safe and reliable for sensitive 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	~101 °C	Melting / Freezing Point	-7 °C (freeze / crystallization onset)
Flash Point	Not flammable (aqueous solution)	Specific Gravity	1.022
Solubility	Fully miscible with water	Molecular Formula	C ₃ H ₈ O ₂
Molecular Weight	76.09 g/mol		

APPLICATIONS

- Pharmaceutical Manufacturing** — Utilized as a reliable solvent or humectant in the development of various pharmaceutical formulations where high-purity ingredients are required.
- Food and Beverage** — Serves as an effective carrier for food additives or as a processing aid in manufacturing environments that demand USP-certified materials.
- Cosmetics and Personal Care** — Functions as a moisture-retaining agent in skin care products, ensuring stability and consistent texture in final formulations.
- Laboratory Research** — Used as a standardized reagent for chemical synthesis and analytical testing where precise concentration levels are essential.
- HVAC and Industrial Cooling** — Acts as a non-toxic heat transfer fluid in systems requiring a lower concentration of propylene glycol for thermal management.

STORAGE & HANDLING

Proper storage in a cool, dry, and well-ventilated area is critical to maintain the chemical integrity and purity of the solution. While this product is not classified as flammable, keeping containers tightly sealed prevents contamination and ensures the solution 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.

Alliance Chemical | 204 South Edmond St, Taylor, Texas 76574 | 512-365-6838 | www.alliancechemical.com

Disclaimer: The information contained herein is believed to be accurate and represents the best information currently available to us. However, Alliance Chemical makes no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.