

PRODUCT IDENTIFICATION



Product Name: Propylene Glycol 60% Technical Grade

CAS Number: 57-55-6

Molecular Formula: $C_3H_8O_2$

Molecular Weight: 76.09 g/mol

Grade: Technical Grade

Purity / Concentration: 60%

Synonyms: Not Available

PRODUCT OVERVIEW

Propylene Glycol 60% Technical Grade is a clear, colorless, and slightly viscous liquid designed for versatile industrial and laboratory applications. With a concentration of 60% and a specific gravity of 1.043, this solution provides a stable and reliable base for various chemical processes.

Grade Significance: Technical Grade indicates that this product is formulated for general industrial and laboratory use where high-purity standards required for human consumption or pharmaceutical applications are not necessary. It offers a cost-effective solution for manufacturing and processing needs.

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

- Industrial Manufacturing** — Utilized as a heat transfer fluid in industrial cooling systems to maintain optimal operating temperatures. Its stable thermal properties help prevent system overheating and ensure equipment longevity.
- Laboratory Research** — Serves as a consistent solvent and reagent for various chemical synthesis and analytical laboratory procedures. Its controlled purity makes it suitable for non-critical testing environments.
- Automotive** — Employed in the formulation of antifreeze and de-icing agents for machinery. It helps lower the freezing point of aqueous solutions to protect systems in cold climates.
- Chemical Processing** — Acts as an intermediate or carrier in the production of various chemical compounds. It is valued for its ability to dissolve a wide range of substances effectively.
- Hydraulic Systems** — Used as a base component in specialized hydraulic fluids where a stable, non-corrosive medium is required. It ensures smooth operation and lubrication in industrial machinery.

STORAGE & HANDLING

Proper storage in a cool, dry, and well-ventilated area is essential to maintain the chemical integrity and prevent degradation. While not classified as a hazardous substance, keeping the container tightly sealed protects the product from environmental contaminants and moisture absorption.

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.