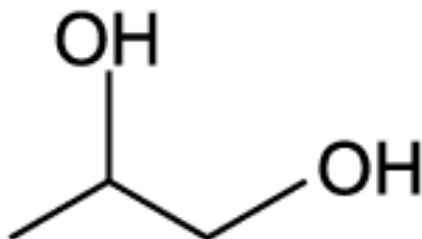


Propylene Glycol (PG)



Propylene Glycol is a viscous, stable, hygroscopic liquid. It is essentially colorless and has a slight odor and a very slight acid taste. Propylene glycol is completely miscible with water and many organic solvents and will dissolve a number of resins, dyes and essential oils. The principal end uses of PG include coolants, industrial solvent, chemical intermediate, cosmetics, pharmaceuticals, food products, paints and coatings. It is available in Industrial and USP grades.

CAS number

57-55-6

Synonyms

1,2-Propanediol

Product code

101277, 101280

Typical Physical Properties of PG

| | |
|----------------------------------|--|
| Molecular Weight | 76.1 g/mol |
| Empirical Formula | C ₃ H ₈ O ₂ |
| Appearance | Colorless Liquid |
| Freezing Point | -60°C (-76°F) |
| Boiling Point @ 760mm Hg | 187°C (369°F) |
| Flash Point – Closed Cup | 107°C (225 °F) |
| Autoignition Temperature | 371°C (700°F) |
| Density @ 25°C | 1.032 kg/L 8.62 lb/gal |
| Vapor Pressure @ 25°C | <0.1 mmHg |
| Vapor Density (air = 1) | 2.52 |
| Solubility in Water @ 20°C | 100% |
| Refractive Index @ 20°C | 1.4329 |
| Viscosity @ 20°C | 56.0 cP |
| Dielectric Constant @ 20°C (esu) | 32.0 |
| Heat of Vaporization @ 25°C | 711 joules/g |
| Specific Heat @ 25°C | 2.481 J/(g°C) |

Note: The properties reported above are typical physical properties. Monument Chemical in no way guarantees that the product from any particular lot will conform exactly to the given values.

Health and safety information

Under current U.S. OSHA's Hazardous Communication program PG is not considered hazardous.

Observe good industrial hygiene practices and use appropriate Personal Protective Equipment.

For full safety information please refer to the Safety Data Sheet.

Storage and Handling

General industry practice is to store PG in carbon or stainless steel vessels.

PG should be stored only in tightly closed, properly vented containers away from heat, sparks, open flame or strong oxidizing agents.

Handle empty containers carefully. Combustible residue remains after emptying.

Provided proper storage and handling precautions are taken, PG manufactured and delivered by Monument Chemical is stable for at least 12 months from the date of manufacture. PG that is subsequently repackaged, handled and/or delivered by third parties may have a different shelf life and may require third party shelf life studies. Product past the retest date should be evaluated to confirm that all specifications are within their limits before use.

Additional Information

To learn more about Monument Chemical and the products and services we offer please visit our website at www.monumentchemical.com.

Effective Date: 8/23/2023

Revision: 2

Disclaimers

Please refer to the Safety Data Sheet (SDS) for complete information on Storage and Handling, Toxicological Properties, Personal Protection, First Aid, Spill and Leak Procedures, and Waste Disposal. To order an SDS, email SDS@monumentchemical.com. Before using or handling this product, the SDS should be thoroughly reviewed.

Monument Chemical believes the information in this specific product Technical Data Sheet (TDS) is accurate, but makes no representations as to the sufficiency or completeness of the product or information in this TDS and makes no commitment to correct or bring up-to-date any such information and makes no commitment related

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