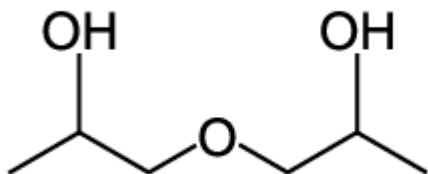


Dipropylene Glycol (DPG)



Dipropylene Glycol is a clear, colorless liquid, slightly viscous liquid which is far less hygroscopic than other common glycols. It is an excellent solvent completely miscible with water and many organic compounds such as ethanol, benzene, toluene, castor oil, carbon tetrachloride, monoethanolamine and diethanolamine. DPG is also an excellent mutual solvent or cosolvent. Other uses of DPG are the creation polyester resins and as a heat transfer fluid. DPG is available in standard and Fragrance grade.

CAS number

25265-71-8

Synonyms

Oxydipropanol; Propanol, oxybis-

Product code

101283, 101286

Typical Physical Properties of DPG

| | |
|--------------------------------------|---|
| Molecular Weight | 134.2 g/mol |
| Empirical Formula | C ₆ H ₁₄ O ₃ |
| Appearance | Colorless Liquid |
| Freezing Point | -40°C (-40°F) |
| Boiling Point @ 760mm Hg | 232°C (450°F) |
| Flash Point – Closed Cup | 138°C (280 °F) |
| Autoignition Temperature | 350°C (662°F) |
| Density @ 20°C | 1.022 kg/L 8.53 lb/gal |
| Vapor Pressure @ 20°C | <0.01 mmHg |
| Vapor Density (air = 1) | 4.6 |
| Solubility in Water @ 20°C | 100% |
| Surface Tension @ 25°C | 35 dynes/cm |
| Refractive Index @ 20°C | 1.4440 |
| Viscosity @ 20°C | 107 cP |
| Expansion Coefficient, per °C @ 20°C | 0.00073 |
| Electrical Conductivity @ 25°C | < 6 micro S/m |
| Heat of Vaporization @ 25°C | 45.4 kJ/mol |
| Specific Heat @ 25°C | 2.18 J/(g°K) |

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 DPG 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 DPG in carbon steel vessels. Storage in properly lined steel or stainless steel to avoid slight discoloration from carbon steel is recommended. Product stored or delivered in unlined carbon steel vessels must be filtered due to technically unavoidable particles. Where iron content in the product is a concern carbon steel should be avoided.

DPG should be stored under a nitrogen blanket when available. This product may absorb water if exposed to air.

DPG 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, DPG manufactured and delivered by Monument Chemical is stable for at least 12 months from the date of manufacture. DPG 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: 10/29/2021

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.

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