

Glycol Ether PNP

CAS No. 1569-01-3

**Description**

Glycol Ether PNP is a colorless, flammable liquid with an ether-like odor. It is completely water-soluble and has good coupling. It demonstrates good solvency for coating resins. The properties of *Glycol Ether* PNP support its use in coatings, cleaning, ink, agricultural, textile and adhesive products. *Glycol Ether* PNP and blends are substitutes for many ethylene glycol (E-series) ethers.

Product Identification

Chemical Name	Propoxy Propanol
Chemical Family	Propylene Glycol Ether
Other Names	Normal Propoxy Propanol Propylene Glycol Normal Propyl Ether
Chemical Formula	C ₆ H ₁₄ O ₂

Product Specifications

Property	Specifications	Test Method
Specific Gravity @ 25/25°C	0.878-0.890 ¹	ASTM D-891
Distillation @760mm Hg IBP, min. DP, max.	140°C 160°C	ASTM E-202 USP XXI
Acidity, wt. % as Acetic acid, max.	0.01	ASTM E-202; USP XXI
Water, Wt. %, max.	0.15	ASTM E-202; E-203
Color, APHA, max.	10	ASTM E-202; D-1209
GC Purity, Wt. %, min.	99.0	

For the most current product specification, please call 1-888-777-0232 or your local sales contact.

Typical Properties

• Density (pounds per gallon at 25°C)	7.4
• Evaporation Rate (BuAc = 100)	21
• Flash Point (Tag Closed Cup) °C(°F)	48 (119)
• Formula Molecular Weight	118.2
• Refractive Index @ 25°C(77°F)	1.410
• Solubility by weight in water at 20°C	Complete
• Solubility Parameter (Total Hansen)	10.3
• Surface Tension (Dynes/cm) @ 25°C(77°F)	27
• Viscosity (centistokes) @ 25°C(77°F)	2.3
• Vapor Pressure @ 25°C(77°F) (mm Hg)	2.5

Applications

Coatings: *Glycol Ether* PNP is colorless and water-soluble. It's characterized by low odor, good solvent properties, good chemical stability, and low volatility. It is used as a cosolvent for waterborne coatings. *Glycol Ether* PNP has excellent coalescing properties and promotes stability in waterborne coatings.

Glycol Ether PNP is a good substitute for E-series solvents, EP (ethylene glycol propyl ether) and EB (ethylene glycol butyl ether).

Cleaners: *Glycol Ether* PNP can be used in floor wax strippers and in many types of hard-surface cleaners, such as glass, metal, tile, ceramic, and general-purpose cleaners. *Glycol Ether* PNP facilitates the removal of water-soluble or water-dispersible soils. It is a good coupling solvent for many oils.

Glycol Ether PNP

CAS No. 1569-01-3



Other Applications: The properties listed in the previous section also support the use of *Glycol Ether PNP* in agriculture, cosmetics, electronics, ink, textile and adhesive products. Specific end uses may require approval by appropriate regulatory agencies.

Storage

General industry practice is to store *Glycol Ether PNP* ethers in carbon steel vessels. Avoid contact with air when storing for long periods of time. Glycol ethers should never be stored or handled in copper or copper alloys. This product may absorb water if exposed to air

Store only in tightly closed, properly vented containers away from heat, sparks, open flame or strong oxidizing agents. Use only non-sparking tools. Ground containers before transfer. Electrical equipment should conform to national electric code.

Safety and Handling

Unnecessary exposure or spillage should be strictly avoided as a matter of good practice.

Hazard ratings are summarized as follows:

	<u>NPCAHMIS</u>	<u>NFPA</u>
Health	1	1
Flammability	2	2
Reactivity	0	0
Personal Protection	X	

Refer to material Safety Data Sheet for more information.

Material Compatibility Guidelines

Stainless steel is recommended for valves, pumps and filters. *Teflon* is suitable for gaskets. Information from material suppliers and specific conditions of contact should be considered in the selection of suitable materials.

A product of Lyondell Chemical Company, Lyondell Chemie Nederland B.V., Lyondell Asia Pacific, Ltd.

Before using a product sold by a company of the LyondellBasell family of companies, users should make their own independent determination that the product is suitable for the intended use and can be used safely and legally.

SELLER MAKES NO WARRANTY; EXPRESS OR IMPLIED (INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY WARRANTY) OTHER THAN AS SEPARATELY AGREED TO BY THE PARTIES IN A CONTRACT.

This product(s) may not be used in:

(i) any U.S. FDA Class I, Health Canada Class I, and/or European Union Class I medical devices, without prior notification to Seller for each specific product and application; or (ii) the manufacture of any of the following, without prior written approval by Seller for each specific product and application: U.S. FDA Class II Medical Devices; Health Canada Class II or Class III Medical Devices; European Union Class II Medical Devices; film, overwrap and/or product packaging that is considered a part or component of one of the aforementioned medical devices; packaging in direct contact with a pharmaceutical active ingredient and/or dosage form that is intended for inhalation, injection, intravenous, nasal, ophthalmic (eye), digestive, or topical (skin) administration; tobacco related products and applications, electronic cigarettes and similar devices, and pressure pipe or fittings that are considered a part or component of a nuclear reactor. Additionally, the product(s) may not be used in: (i) U.S. FDA Class III Medical Devices; Health Canada Class IV Medical Devices; European Class III Medical Devices; (ii) applications involving permanent implantation into the body; (iii) life-sustaining medical applications; and (iv) lead, asbestos or MTBE related applications. All references to U.S. FDA, Health Canada, and European Union regulations include another country's equivalent regulatory classification.

Users should review the applicable Safety Data Sheet before handling the product.

Alkylate, Duopac, Duoprime, Filmex, MPDIOL, Polymeg, SAA-100, SAA-101, TBAC, Tebol, T-Hydro, and Tufflo are trademarks owned or used by the LyondellBasell family of companies.

Duopac, Duoprime, Filmex, MPDIOL, Polymeg, Tebol, T-Hydro and Tufflo are registered in the U.S. Patent and Trademark Office.

Houston, Texas, USA | Tel: +1 713 309 7200 or toll-free within USA +1 888 777 0232
Rotterdam, The Netherlands | Tel: +31 10 275 5500
Hong Kong, China | Tel: +852 2882 2668