Dipropylene Glycol (Mono) Methyl Ether

Glycol Ether DPM

CAS No. 34590-94-8
Molecular Weight = 148.2

Description

Glycol Ether DPM is a colorless, liquid with low toxicity having a mild, pleasant odor. It is completely water soluble, miscible with a number of organic solvents and has good solvency for a number of substances.

Product Identification

Chemical Name Methoxy Propoxy Propanol
Chemical Family Propylene Glycol Ether
Other Names DPG Methyl Ether
Dipropylene Glycol Methyl Ether
Dipropylene Glycol Mono Methyl Ether
Chemical Formula……$C_7H_{16}O_3$

Property	
Acidity, wt. % as Acetic acid, max.	0.01
Water, Wt. %, max.	0.15
Color, APHA, max.	10
GC Purity, Wt. %, min.	99.0
Appearance	Clear

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) 7.9
- Distillation @ 760mm Hg
  - IBP, min 180°C
  - DP, max 195°C
- Evaporation Rate (BuAc = 100) 2
- Flash Point (Tag Closed Cup) C(°F) 75(176)
- Solubility by weight in water at 20°C Complete
- Solubility Parameter (Total Hansen) 10.0
- Specific Gravity @25/25°C 0.949-0.960
- Surface Tension (Dynes/cm) @ 25°C (77°F) 28
- Refractive Index @ 25° (77°F) 1.422
- Viscosity (centistokes) @ 25° (77°) 3.6
- Vapor Pressure @ 25°C (mm Hg) 0.2

Applications

Coatings: *Glycol Ether* DPM provides good solvency for a wide variety of resins including acrylic, epoxies, alkyds, polyesters, nitrocellulose and polyurethanes. *Glycol Ether* DPM has a relatively low vapor pressure (volatility) and evaporates at a slow rate. Key properties for coating applications include complete water miscibility and good coupling ability.

Cleaners: Surface tension reduction and slow evaporation are some of the benefits of using *Glycol Ether* DPM in cleaning formulations.

DPM has a low odor and slow evaporation rate. It is a good choice for wax strippers and floor cleaners which are spread over a large area. When used in an enclosed area, a floor cleaner containing a fast-evaporating solvent might produce an undesirable amount of solvent vapor. *Glycol Ether* DPM provides good solvency for polar and non-polar materials.

Other Applications: The properties listed in the previous section also support the use of *Glycol Ether* DPM in agricultural, cosmetic, electronic, ink, textile and adhesive products.

Storage

General industry practice is to store *Glycol Ether* DPM in carbon steel vessels. Avoid contact with air when storing for long periods of time.

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 beginning transfer. Electrical equipment should conform to national electric code.

Handle empty containers carefully. Combustible residue remains after emptying. Store in properly lined steel or stainless steel to avoid slight discoloration from mild steel. Glycol ethers should never be stored or handled in copper or copper alloys. This product may absorb water if exposed to air. However, it is not subject to the reporting level established by SARA Title 111, section 313 and 40CFR372.

Safety and Handling

Glycol Ether DPM is classified as a combustible liquid under SARA, Title 111, sections 311/312 but is not subject to the reporting requirements of SARA Title III, section 313.

Undue exposure or spillage should be strictly avoided as a matter of good practice. Refer to the Material Safety Data Sheet for *Glycol Ether* DPM for more specific

information. Hazard ratings are summarized as follows:

	NPCA HMIS	NFPA
Health	1	0
Flammability	2	2
Reactivity	0	0
Personal Protection	B*	

*Personal protection recommendation should be made with consideration of specific work place conditions. The health hazard rating is based on eye irritation potential.

Material Compatibility Guidelines

Stainless steel is recommended for valves, pumps and filters. *Teflon* is suitable for gaskets. Buna N, butylene polymers and Neoprene are known to swell in contact with *Glycol Ether* DPM.

Information from material suppliers and specific conditions of contact should be considered in the selection of suitable materials.

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This product(s) may not be used in:
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(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.

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