**Glycol Ether DPnP**

**Product Identification**
- Chemical Name: Dipropylene Glycol Propyl Ether
- Chemical Family: 1-(2-propoxy-2-methylethoxy) 2-propanol
- Chemical Formula: $C_9H_{20}O_3$

**Product Specifications**

<table>
<thead>
<tr>
<th>Property</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acidity, wt. % as Acetic acid, max.</td>
<td>0.015</td>
</tr>
<tr>
<td>Water, Wt. %, max.</td>
<td>0.2</td>
</tr>
<tr>
<td>Color, APHA, max.</td>
<td>20</td>
</tr>
<tr>
<td>Purity, Wt. %, min.</td>
<td>98.5</td>
</tr>
<tr>
<td>Specific Gravity @ 25/25°C</td>
<td>0.915-0.925</td>
</tr>
<tr>
<td>Distillation @ 760 mm Hg</td>
<td></td>
</tr>
<tr>
<td>IBP, Initial Boiling Point, °C</td>
<td>200-225</td>
</tr>
<tr>
<td>DP, Dry Point, °C</td>
<td>200-25</td>
</tr>
</tbody>
</table>

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

**Physical Properties**

- **Other names**: 1-(2-propoxy-1-methylethoxy)-2-propanol
  - Dipropylene glycol monopropyl ether
- **Molecular Weight**: 176.3
- **Boiling Point @ 760 mm Hg, °C**: 212
- **Evaporation Rate (BuAc=100)**: 1.3
- **Flash Point, Seta, °F**: 190
- **Solubility Parameters**
  - Polar: 2.4
  - Non-Polar: 7.4
  - H-bonding: 5.7
  - Total: 9.6
- **Solubility @ 20°C, wt.%**
  - In Water: 18
  - Water In: 18.5
- **Specific Gravity 25/25° C**: 0.922
- **Surface Tension (dynes/cm) @ 25° C**: 25.8
- **Vapor Pressure, mm Hg @ 20°C**: 0.05
- **Viscosity (centipoise) @ 25°C**: 4.4
**Coatings**

Glycol Ether DPnP performs well in coatings applications as a coalescent for waterborne coatings and a solvent for solvent-borne coatings. Glycol Ether DPnP blends well with other materials such as the more hydrophobic glycol ethers. Overall it makes an excellent choice as a coalescing agent and it makes a good viscosity control agent.

**Cleaners**

Low toxicity, surface tension reduction, and moderate evaporation are some of the benefits of using Glycol Ether DPnP in cleaning formulations. It also provides good solvency for polar and non-polar materials.

**Other Applications**

The properties of Glycol Ether DPnP also support its use in agricultural, electronic, inks, textile, sealants and adhesive products. Specific end uses may require approval from governing regulatory agencies.

**Storage**

General industry practice is to store Glycol Ether DPnP 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 beginning transfer. Electrical equipment should conform to national electric code.

**Safety and Handling**

Due to its low order of toxicity, Glycol Ether DPnP requires no special handling. However, undue exposure or spillage should be strictly avoided as a matter of good practice. Refer to the Safety Data Sheet for Glycol Ether DPnP for more specific information.

**Occupational Exposures**

Occupational exposures with Glycol Ether DPnP are usually via the dermal and/or inhalation route. As a derivative of the propylene glycol-based ethers, DPnP is expected to present low order toxicity and pose little hazard under normal conditions of exposure and use. As with many solvents, precautions to minimize skin and eye contact and repeated or prolonged inhalation to high vapor concentrations should be taken.

**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.

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.

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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
Dipropylene Glycol (Normal) Propyl Ether

DPnP Solvent

CAS No. 29911-27-1
Molecular Weight = 176.3

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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