

## PROPYLENE GLYCOL

TECHNICAL GRADE

Last revision 2011

**Chemical Name:** Molecular formula: C<sub>3</sub>H<sub>8</sub>O<sub>2</sub>  
 No. CAS: 57-55-6  
 Abbreviation: PG

### General Description:

Propylene Glycol is a clear, viscous, oily, colorless liquid, with a characteristic odor. The product is very easily soluble in alcohol, water, acetone and chloroform.

### Technical Quality Conditions:

Characteristics	M.U.	Values	Test methods
Appearance	-	viscous, clear liquid	visual
Propylene glycol, min	%	99.5	ILL-003/3-01-17
Distillation range (95% vol.)	°C	185-189	ASTM D 1078
Water (Karl-Fischer), max.	%	0.25	ASTM E 203
Acidity (CH <sub>3</sub> COOH), max.	%	0.005	ASTM D 1613
Hazen color, max.	Hazen units	10	SR ISO 2211
Ashes, max.	%	0.01	ILL-003/3-01-18

### Specific Properties:

Density at 20°C, g/cm <sup>3</sup>	1.037
Boiling point	188.2°C at 760 mm Hg
Ignition temperature	99 °C
Flammability	Not flammable

*The specific properties present approximate values and contain general information, without being part of the technical quality conditions.*

### Main Applications:

- unsaturated polyester resins;
- urethanes;
- paints & varnishes;
- heat transfer fluids;
- antifreezes, polyether polyols, antifoaming agents;
- as glycerin substitute in fine organic synthesis;
- as solvent in printing inks;
- as solvent and enzyme stabilizer in laundry detergents;
- stabilizer in hydraulic fluid;
- plasticizer to improve process ability of plastics, demulsifying;
- cellophane manufacturing.



## **Packing and storage:**

Propylene Glycol is packed in stainless steel or carbon steel tanks with adequate internal protection, with a capacity of 20 or 40 tons, property of supplier or customer, or in other stainless steel or aluminum, clean and dry containers.

It is stored in specially designed, shed-type storage facilities, with concrete platform.

In the case of storage in reservoirs, a slight overpressure with inert gas will be created to avoid moisture infiltration (the product is hygroscopic)

## **Safety Considerations:**

Before handling and using of product, the personnel must be aware of the dangers implied. This information is available in MSDS and on the product label.

## **Attention:**

Please contact OLTCHIM to see if the document has been revised and for any other additional information related to the product.

## **Important:**

For a better suitability of the product for your particular purpose, tests are recommended prior product use. You are advised to make your own determination as to safety, appropriate manner of handling, storage, use and disposal. All the information contained in this product technical sheet is offered for your consideration, investigation and verification. The data is presented in good faith and is believed to be reliable. You should not consider the descriptions, information, data or design as a part of our terms and conditions of sale. We expressly disclaim responsibility or liability for any loss, damage or expense arising out of non-compliance with the information provided herein.