

## PROPYLENE GLYCOL

USP GRADE

Last revision 2015

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

### General Description:

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

### Technical Quality Conditions:

| Characteristics                                  | MU                | Values      | Test methods    |
|--|-------------------|-------------|-----------------|
| Concentration, min.                              | %                 | 99.5        | ILL 003/3-01-17 |
| Relative Density $d_{25}^{25}$                   | g/cm <sup>3</sup> | 1.035-1.037 | USP 32-NF 27    |
| Acidity, max.                                    | ml NaOH<br>0.1N   | 0.20        | USP 32-NF 27    |
| Water (Karl-Fischer), max.                       | %                 | 0.20        | ASTM E 203-01   |
| Calcination Residue, max                         | %                 | 0.007       | USP 32-NF 27    |
| Chlorides, max.                                  | %                 | 0.007       | USP 32-NF 27    |
| Heavy metals, max.                               | %                 | 0.0005      | USP 32-NF 27    |
| Sulphates (SO <sub>4</sub> <sup>2-</sup> ), max. | %                 | 0.006       | USP 32-NF 27    |

### Specific Properties:

|                      |                      |
|----------------------|----------------------|
| 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:

Propylene Glycol USP grade is mainly used in cosmetic and pharmaceutical industries.



## Packing and storage:

Propylene Glycol USP grade is packed in stainless steel tanks and polyethylene drums of different capacities, tightly sealed.

It is stored in stainless steel tanks fitted with hydraulic locking with product to prevent moisture infiltration.

## 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.