

PROPYLENE GLYCOL

USP GRADE

Last revision 2009

Chemical Name: Molecular formula: C₃H₈O₂
 No. CAS: 57-55-6
 Abbreviation: PG - USP

General Description:

Propylene Glycol USP grade is an organic compound, a clear, viscous, colorless, water-absorbing liquid with 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
Density at 25°C	g/cm ³	1.035-1.037	USP 32-NF 27
Water (Karl-Fischer), max.	%	0.20	ASTM E 203-01
Acidity, max.	ml	0.20	USP 32-NF 27
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 ₄ ²⁻), 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:

- solvent in fragrance industry;
- a coupling agent in sunscreens, shampoos, shaving creams and other personal care products;
- wetting agent for natural gums;
- emulsifier in cosmetic and pharmaceutical creams.



Shipping Information:

- stainless steel tanks and polyethylene drums of different capacities, tightly sealed.

Storage:

Propylene Glycol USP grade is stored in stainless steel tanks with hydraulic cover to prevent moisture penetration.

Product should not be stored in direct sunlight or at elevated temperatures.

Safety Considerations:

Please refer to the product Material Safety Data Sheet (MSDS) offering customers help to better satisfy their particular handling, safety and disposal needs and those that may be required by locally applicable health and safety regulations.

Warning:

Avoid contact with oxidizing materials.

Propylene Glycol is not a toxic product and does not cause systemic lesions.

Propylene Glycol has a low vapor pressure and is not expected to volatilize. Propylene Glycol is stable unless exposed to high temperatures, when it can decompose.

Attention:

Information contained in this document is provided to the best of our knowledge and experience.

Please contact OLTCHIM to see if the document has been revised.

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.