

PROPYLENE GLYCOL

E Ph GRADE

Last revision 2008

Chemical Name: Molecular formula: C₃H₈O₂
 No. CAS: 57-55-6
 Abbreviation: PG –E Ph

General Description:

Propylene Glycol E Ph grade is an organic compound, a clear, viscous, oily, colorless, liquid with characteristic odor. The product is very easily soluble in water, acetone and chloroform.

Propylene Glycol is manufactured by the hydration of propylene oxide.

Technical Quality Conditions:

Characteristics	MU	Values	Test methods
Identification:			
- relative density, d_4^{20}	-	1.035-1.040	PhE V:2005 pct.2.2.5.
- refraction index, n_D^{20}	-	1.431–1.433	PhE V:2005 pct. 2.2.6.
- boiling point	°C	184 - 189	PhE V:2005 pct. 2.2.12.
- melting point	°C	121 - 128	PhE V 2005: 0430. - D
Appearance	-	clear, colorless liquid	PhE V:2005 pct. 2.2.1 PhE V:2005 pct. 2.2.2. method II
Acidity , max	ml NaOH 0,1M	0.05	PhE V 2005: 0430
Oxidizers, max	ml Na ₂ S ₂ O ₃ 0,05M	0.2	PhE V 2005: 0430.
Reducers	-	adequate	PhE V 2005: 0430
Heavy metals, max	ppm	5	PhE V:2005 pct .2.4.8.
Water, max	%	0.2	PhE V:2005 pct .2.5.12
Sulphate ash	%	0.01	PhE V:2005 pct .2.4.14

Specific Properties:

Ignition temperature	99 °C
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The specific properties present approximate values and contain general information, without being part of the technical quality conditions.



Main Applications:

Propylene Glycol E Ph 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.