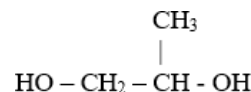


Product Name

PROPYLENE GLYCOL - USP


Product Description

Propylene Glycol – United State Pharmacopoeia Grade meets the requirement of the U.S Pharmacopoeia. It is a clear, colourless liquid, used as a solvent in the extraction of crude drugs. It is also used in liquid preparations in pharmaceutical industry.

Applications

A solvent for flavours, extracts, drug and food antioxidants; a heat transfer medium; an emolient and humectant and plasticizers for tobacco products, baked foods, coconut, cellophane, adhesives and paper products. It is used as an inhibitor of fermentation and mold growth.

Specifications (as per IS: 13702-1993)

S.No	Characteristics	Unit	Specification
1	Description	--	Clear, colorless, viscous liquid. Miscible with water, Acetone and Chloroform.
2	Identification a) By IR b) Diethylene glycol and ethylene glycol c) RT by GC	--	The Infrared absorption spectrum of the test sample should match the spectrum obtained from propylene glycol reference standard. NMT 0.10% of diethylene glycol and NMT 0.1% of ethylene glycol The retention time of propylene glycol peak in the chromatogram of the sample solution correspond to that obtained in the chromatogram of the standard solution in identification test B
3	Specific gravity at 25°C	--	1.035 – 1.037
4	Acidity	--	NMT 0.2ml of 0.1N NaOH is required
5	Water	% w/w	NMT 0.20
6	Residue on ignition	% w/w	NMT 0.007
7	Chloride	% w/w	NMT 0.007
8	Sulphate	% w/w	NMT 0.006
9	Arsenic (as As)	ppm w/w	NMT 3
10	Heavy metals	ppm w/w	NMT 5
11	Assay – Content of Propylene Glycol (C ₃ H ₈ O ₂) by GLC	% w/w	NLT 99.5
12*	Boiling point	°C	184 – 189

The above specification is as per USP.

*This is an additional requirement as per B.P.

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NMT-NOT MORE THAN
NLT-NOT LESS THAN

Packaging Size**Storage
and
Handling**

PROPYLENE GLYCOL – USP is stable over long periods of storage. Store in a room temperature, well ventilated area in sealed containers. Store away from strong oxidizing agent or combustible material. Keep away from UV light as this may adversely affect the quality.
Shelf life: 5 years

**Health and
Safety Advice**

PROPYLENE GLYCOL – USP should present no unusual health problems when used in manufacturing operations where satisfactory standards of personal and industrial hygiene are maintained. Precautions should be taken to avoid exposure to the eye or prolonged contact with the skin.

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