

Product Name

PROPYLENE GLYCOL I.P.

Product Description

Propylene Glycol I.P. meets the requirement of the Indian Pharmacopoeia. Propylene Glycol I.P. 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 flavors, extracts, drug and food antioxidants; a heat transfer medium; an emollient 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)

Characteristics	Unit	Specification
Description	----	Clear Colourless, Viscous liquid. Practically Odourless, Hygroscopic.
Solubility	----	Miscible with water, ethanol (95%), acetone and chloroform.
Identification A, B&C	----	To meet IP/USP/BP/Ph. Eur requirements.
Acidity	----	NMT 0.05 ml of 0.1M Sodium Hydroxide is required
Clarity and Colour	----	Clear and colourless.
Boiling Range	0C	184 – 189
Relative Density @ 25° C	----	1.035 – 1.040
Refractive Index @ 20° C	----	1.431 – 1.433
Heavy metals	----	NMT 5ppm (Method D)
Oxidizing substances	----	NMT 0.2ml of 0.05M Sodium thiosulphate is required.
Reducing substances	----	To meet IP requirements.
Ethylene Glycol & Di Ethylene Glycol	----	No peaks corresponding to ethylene glycol and diethylene glycol are obtained.
*Residue on Ignition	% w/w	NMT 0.007
Sulphated ash	% w/w	NMT 0.01, determined on 50g
Water	% w/w	NMT 0.2, determined on 5g.
*Assay as propylene glycol C ₃ H ₈ O ₂ by GLC	% w/w	NLT 99.5
*Chloride	% w/w	NMT 0.007
*Sulphate	% w/w	NMT 0.006

*Additional requirements as per U.S.P

NMT- NOT MORE THAN,

NLT- NOT LESS THAN

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Packaging Size**Storage
and
Handling**

- PROPYLENE GLYCOL – IP 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 – IP 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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