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Product Name

PROPYLENE OXIDE

Product Description

Propylene Oxide is a clear, volatile and inflammable liquid.

Applications

It is used as a chemical intermediate in the preparation of polyols to produce polyurethanes, in the preparation of glycols, in preparation of lubricants, surfactants, oil de-emulsifiers and also as solvent; fumigant; soil sterilant.

Specifications (as per IS: 13702-1993)

S.No	Characteristics	Unit	Specification
1	Appearance	--	Clear liquid
2	Colour	APHA	10 Max
3	Density at 25°C	g/cc	0.82 – 0.83
4	Acidity as Acetic acid	ppm w/w	50 Max
5	Aldehyde as Propanal	ppm w/w	50Max
6	Moisture	ppm w/w	200 Max
7	Non-volatile matter	mg/100 ml	2.0 Max
8	Purity	% wt/wt	99.90 Min

Properties

Flash point (closed cup) -35 °C, miscible with alcohol and ether, Distillation range 33-40 °C

Packaging Size

Available in bulk load by tankers, as well as in small quantities by mini bullets of approximately 150-200 kg nett wt.

Storage and Handling

- Must be stored in tightly closed/ properly vented containers away from heat sparks, open flame, strong oxidizing agents.
- Use only non-sparking tools.
- Shelf Life : 6 months

Health and Safety Advice

- Inhalation produces headache, nausea, vomiting, unconsciousness, mild depression of CNS & lung irritation.
- Causes slight irritation to skin.
- Causes severe irritation to eyes.
- Must wear personal protective equipment while handling Propylene Oxide.

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