

## GLYCERIN IP

### Specifications:

Description	: Clear colourless or almost colourless, syrupy liquid, odourless, very hygroscopic
Identification	: To Pass The Test B, C & D or A & D
Acidity (ml of 0.1 N NaOH)	: 0.20 Max
Appearance of solution	: The solution A is clear & diluted solution A is colourless
Heavy metal as Pb ppm	: 5.0 Max
Iron as Fe ppm	: 4.0 Max
Chloride as Cl in ppm	: 25.0 Max
Sulphate as SO <sub>4</sub> in ppm	: 30.0 Max
Aldehydes & reducing substances	: To pass the test
Ester	: Min 8 ml of 0.1 M HCL required
Ethylene glycol, diethylene glycol & related substances	: To pass the test
Sugars	: To pass the test
% Sulphated ash	: 0.01 Max
% Water (w/w)	: 2.00 Max
% Glycerol content on anhydrous basis	: Not less than 98.0 & not more than 101.0

- Packing: 250 Kg HMHDPE Carboy
- ISO 9001, 14001, 18001/45001, Kosher, Halal certified.
- Vegetable origin, Non GMO, TSE - BSE free.
- Broad Uses: Pharmaceuticals



Godrej Industries Ltd.

Regd. Office: Godrej One, Pirojshanagar, Eastern Express Highway, Vikhroli, Mumbai - 400 079. INDIA

TEL.: +91-22-2518 8010/8020/8030 | FAX: +91-22-2518 8074/8096

Website: [www.godrejindustries.com](http://www.godrejindustries.com)

## GLYCERIN BP

### Specifications:

Appearance	: A syrupy liquid, Unctuous to the touch, colourless or almost colourless, clear, very hygroscopic.
Solubility	: Miscible with water and with ethanol (96%), slightly soluble in acetone, practically insoluble in fatty oil and in essential oil.
Appearance of solution	: Solution S is clear & diluted solution S is colourless.
Identification	: A) It complies with test for Refractive Index B) By IR: The Infra red absorption spectrum of the resulting solution is concordant with the reference spectrum of Glycerol (85%) C) Relative Density: 1.258 to 1.268
% Assay	: Not less than 98.0 & not more than 101.0
Acidity/alkalinity (50 ML of 50% w/v solution), Max	: 0.2 ML of 0.1 M NaOH
Refractive index at 20 ° C	: 1.470 – 1.475
Aldehydes ppm, Max	: 10.0
Ester Min	: 8.0 ml 0.1 M HCl
Halogenated compounds ppm, Max	: 35.0
Sugars	: The solution is clear & blue on addition of Copper Sulphate solution R. It remains blue & no precipitate is formed on heating continuously on water bath for 5 minutes
Chlorides ppm, Max	: 10.0
% Water, Max	: 2.0
% Sulphated ash, Max	: 0.01
Impurity A & related substances by GC	: Impurity A = NMT 0.10% Any other impurities with retention time less than retention time of glycerol = NMT 0.10% Total of all impurities with retention time greater than retention time of Glycerol = NMT 0.5%

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## GLYCERIN USP

### Specifications:

Appearance	: Clear
Odour	: Odourless
% Assay on anhydrous basis	: 99.0 – 101.0
Colour	: To pass the test
Fatty acids & esters (ml of 0.5 N NaOH)	: 1.0 Max
Chloride ppm	: 10.0 Max
Sulphate ppm	: 20.0 Max
Chlorinated Compound ppm	: 30.0 Max
% Water	: 5.0 Max
% Residue on ignition	: 0.01 Max
Specific gravity @ 25.0°C	: 1.249 Min
Organic impurities	
A) % Total impurities (chromatographic) Including Diethylene glycol.	: 1.0 Max
B) % individual impurities (chromatographic)	: 0.1 Max
Identification	
Test A	: To pass the test
Test B	
% DEG	: 0.10 Max
% MEG	: 0.10 Max
Test C	: To pass the test

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## REFINED GLYCERIN - FOOD GRADE

### Specifications:

Appearance	: Clear, Colourless viscous, Hygroscopic liquid
Identification	: Passes
Colour	: Colour of the sample is not darker than that of the control
Glycerol Content by mass	: 99.00 – 101.00 %
Inorganic Impurities Lead (as Pb)	: NMT 1.0 mg/kg
Fatty Acids & Esters	: NMT 4 ml of 0.5 N HCl is consumed
Chlorinated Compound	: Any turbidity produced by sample does not exceed that produced by the control
Readily Carbonizable Substance	: The resulting mixture has no more colour than matching fluid H
% Residue on Ignition	: NMT 0.01
Specific Gravity@25°C	: NLT 1.259
Water	: NMT 1.0%

- Packing: 250 Kg HMHDPE drum, MSBTLL drums, Tanker, ISO Tanker
- Certificates: ISO 9001, 14001, 45001, Kosher, Halal certified, FSSC 22000
- Vegetable origin, Non GMO, TSE - BSE free.
- Broad Uses: Food industries



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## GLYCERIN CP

### Specifications:

Appearance	:	Clear, Colourless, syrupy liquid, Free from foreign matter.
Odour	:	Odourless
Colour 5.25" Lovibond Cell (Red + Yellow)	:	1.0 Max
% Fatty Acids & Ester as Na <sub>2</sub> O	:	0.03 Max
Chloride as Cl in ppm	:	10.0 Max
Sulphate as SO <sub>4</sub> in ppm	:	10.0 Max
% Ash by mass	:	0.01 Max
% Glycerol by mass	:	98.0 Min
Arsenic as As, ppm	:	2.00 Max
Iron as Fe, ppm	:	0.50 Max
Lead as Pb, ppm	:	1.0 Max
Silver nitrate test	:	To pass the test
Copper	:	To pass the test
Acraldehyde & Glucose	:	To pass the test
Reducing substances	:	To pass the test
Relative density at 30°C	:	1.2552 Min
% Alkalinity as Na <sub>2</sub> O	:	Nil

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- Broad Uses: Pharmaceuticals



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