



# REFINED GLYCERINE

## 99.5% MIN EP

- Originalted from 100% vegetable-based oil
- Kosher Certified
- HALAL Certified
- HACCP & GMP Certified

### Specifications

**Clear, Colorless, Odorless Liquid**

<u>Analysis Items</u>	<u>SPEC</u>	<u>REF. METHOD</u>
Characters/Appearance	Clear, Colorless	Ph. EUR. 8
Glycerine Content (%wt)	99.5 min	Ph. EUR. 8
Density (@20C)	1.260-1.263	ASTM D 4052
Refractive index (@20C)	1.470-1.475	Ph. EUR. 8
Water Content (%wt)	0.5 max	Ph. EUR. 8
Sulphated ash (%wt)	0.01 max	Ph. EUR. 8
Ester Index (ml 0.1N HCl/25g)	8 min	Ph. EUR. 8
Chlorides (ppm V)	10 max	Ph. EUR. 8
Total Heavy metals (ppm as Pb)	5 max	Ph. EUR. 8
Halogenated compounds (ppm as Cl)	35 max	Ph. EUR. 8
Acidity and alkalinity (ml 0.1NaOH/25g)	0.2 max	Ph. EUR. 8
Aldehyde (ppm)	10 max	Ph. EUR. 8
Color Index (APHA)	5 max	ASTM D1209
Sugars	Negative	Ph. EUR. 8
Identification (A&B)	Pass	Ph. EUR. 8
Impurities A & related substances	Pass	Ph. EUR. 8

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### Specifications

**Clear, Colorless, Odorless Liquid**

<u>Analysis Items</u>	<u>SPEC</u>	<u>REF. METHOD</u>
Characters/Appearance	Clear, Colorless	USP 37
Glycerine Content	99.5 min	USP 37
Specific Gravity (25/25°C)	1.260 min	USP 37
Water Content (%wt)	0.5 max	USP 37
Residue on Ignition (%wt)	0.01 max	USP 37
Chlorides (ppm)	10 max	USP 37
Limit of Chlorinated Compounds (ppm of Cl)	30 max	USP 37
Organic Volatile Impurities	Pass	USP 37
Readily Carbonizable Substances	Pass	USP 37
Lead (ppm)	1 max	USP 37
Total Heavy metals (ppm as Pb)	5 max	USP 37
Arsenic (ppm)	1.5 max	In-house based on AAS/GF
Sulphate (ppm)	20 max	USP 37
Color Index (APHA)	5 max	USP 37
Fatty acid & esters (ml 0.5 NaOH/50g)	1 max	USP 37
Identification A	Pass	USP 37
Identification B	Pass	USP 37
Diethylene Glycol (%wt)	0.1 max	USP 37
Ethylene Glycol (%wt)	0.1 max	USP 37
Identification C	Pass	USP 37
Other Impurity, max (%wt)	0.1	USP 37
Total Impurity (%wt)	1.0	USP 37

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