

SPECIFICATION

Product Name: Glycerine CP Grade
Chemical Formula: C ₃ H ₈ O ₃
CAS Number: 56-81-5
Molecular Weight: 92.09 g/mol
Appearance: Clear colourless syrupy liquid
Odor: Odorless

Chemical Composition

Parameter	Unit	Typical Value	Specification (Min./Max.)
Glycerol	%	99.76	Min. 98.0
Relative density @30°C	-	1.2598	Min. 1.2552
Colour on Lovibond scale as Y+R	-	0.3	Max. 1.0
Ash	%	0.004	Max. 0.01
Arsenic	PPM	0.38	Max. 2.0
Copper	-	Passes	To pass test
Iron	PPM	0.37	Max. 0.50
Lead	PPM	Passes	Max. 1.0
Chlorides	PPM	2.39	Max. 10.0
Sulphates	PPM	0.97	Max. 10.0
Alkalinity	%	Nil	Nil
Fatty acid & ester	%	0.013	Max. 0.030

Acraldehydes & Glucose	-	Passes	To pass test
Reducing substances	-	Passes	To pass test

Physical Properties

- Solubility: Soluble in water. Insoluble in ethanol. Soluble in acetone. Soluble in chloroform. Insoluble in ether. Soluble in oils.

Shelf Life & Storage

- Shelf Life: 4 years from date of manufacture under recommended storage.
- Storage Conditions: Store in a cool, dry, and well-ventilated place at 15–30°C. Keep the container tightly closed to prevent moisture absorption and contamination, as glycerine is hygroscopic. Protect from direct sunlight and excessive heat, and store in the original, properly labeled container to maintain product quality and stability.

Applications

- Use: Widely used as a humectant, solvent, plasticizer, lubricant, and viscosity-enhancing agent in pharmaceutical, cosmetic, laboratory, and industrial applications. It helps retain moisture, improve texture, dissolve active ingredients, and enhance formulation stability. It is commonly used in oral liquids, topical preparations, toothpaste, cosmetics, personal care products, laboratory reagents, and industrial formulations. CP Grade is intended for laboratory and industrial use; food or pharmaceutical applications require the appropriate food-grade or pharmacopeial grade glycerine.
- Dosage: Depends on the intended formulation and function (e.g., solvent, humectant, sweetener, or plasticizer) and should be determined according to product specifications, pharmacopeial standards, and applicable regulatory requirements.

Packaging

- Standard Packing: 250 Liter HDPE Drum as per customer requirement.
- Labeling: Product name, batch number, net weight, manufacture date, expiry date, and manufacturer details.

* Specifications are based on the manufacturer's provided specifications.