



TECHNICAL DATA SHEET (TDS)

Glycerin USP Grade

1. Product Identification

Product Name: Glycerin USP Grade

Chemical Name: Glycerol

Synonyms: Glycerin, Glycerine, Glycerol

CAS Number: 56-81-5

EC Number: 200-289-5

Molecular Formula: $C_3H_8O_3$

Molecular Weight: 92.09 g/mol

Appearance: Clear, colorless, viscous liquid

Grade: USP Grade

2. Product Description

Glycerin USP Grade is a high-purity glycerol designed for applications that require controlled quality and compliance with applicable USP specifications.

It is a clear, colorless, hygroscopic, viscous liquid with excellent water-miscibility and strong moisture-retention properties. These characteristics make it suitable for pharmaceutical formulations, personal-care products, cosmetics, oral-care products, and selected industrial applications.

The product is manufactured and quality-controlled according to the applicable product specification. Each batch can be evaluated through appropriate quality-control testing and supported by a Certificate of Analysis (COA).



3. Typical Technical Specifications

Parameter	Specification / Typical Value
Appearance	Clear, colorless, viscous liquid
Identification	Conforms to USP requirements
Assay / Glycerol Content	Meets applicable USP specification
Water Content	Meets applicable USP specification
Specific Gravity	Approx. 1.25–1.26 at 20°C
Refractive Index	Approx. 1.449–1.455 at 20°C
Acidity / Alkalinity	Conforms to applicable USP requirements
Residue on Ignition	Conforms to applicable USP requirements
Chloride	Conforms to applicable USP requirements
Sulfate	Conforms to applicable USP requirements
Heavy Metals / Elemental Impurities	Conforms to applicable requirements
Related Substances	Conforms to applicable USP requirements
Color	Colorless
Odor	Odorless or practically odorless
Solubility in Water	Miscible