

Product Name: Glycerol, 99.0 to 101.0%, Molecular Biology Grade, Ultrapure, Thermo Scientific Chemicals

Catalog Number: J16374.AP

CAS Number: 56-81-5

IUPAC Name: propane-1,2,3-triol

Molecular Formula: C₃H₈O₃

Molecular Weight: 92.09

InChI Key: PEDCQBHIVMGVHV-UHFFFAOYSA-N

SMILES: OCC(O)CO

Synonym: glycerol incorporation factor glycerin, synthetic MOON caswell no. 469 glycerin, anhydrous grocolene tryhydroxypropane synthetic glycerine dagralax

Product Specification

Form: Clear, colorless, viscous liquid

Comment: Neutrality: Passes test

Residual water: ≤ 0.5%

Residue on ignition: ≤ 0.007%

Trace Metal: Iron (Fe): ≤ 5 ppm

Color (APHA): ≤ 10

Assay (unspecified): (USP): 99.0 - 101.0%

DNase: (endo): Passes test

Impurity content: Silver Reducing Substances: Passes test

Impurity content: Sulfate (SO₄): ≤ 0.002%

Protease activity: Passes test

Refractive Index: 1.470 - 1.475

RNase: Passes test

Specific Gravity: (25°C): ≥ 1.249

Trace Metal: Arsenic (As): ≤ 1.5 ppm

Trace Metal: Calcium (Ca): ≤ 5 ppm

Trace Metal: Zinc (Zn): ≤ 2 ppm

Assay (unspecified): Fatty Acid Esters: ≤ 0.3 ml of 0.5N NGOH

Assay (unspecified): Readily Carbonizable Substances: Passes test

Chloride content: ≤ 0.001%

DNase: (exo): Passes test

Assay (unspecified):	Chlorinated Compounds: $\leq 0.003\%$
Identification (FTIR):	Conforms
Trace Metal:	Heavy Metals (Pb): ≤ 2 ppm
Trace Metal:	Magnesium (Mg): ≤ 1 ppm
Trace Metal:	Mercury (Hg): ≤ 10 ppm