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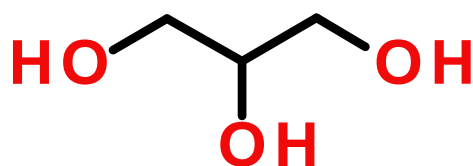
Product Specifications

Glycerol (USP, EP/BP, JP)

CAS 56-81-5

Syn: 1,2,3-Propanetriol, Glycerin

Structure:



Mol. Formula
Source

$C_3H_8O_3$
Synthetic; cGMP

Mol. Wt.

92.09

Test

Specification

Identity

Identification A ^{1,2,3}	Passes Test
Identification B ²	Passes Test
Identification B (Diethylene Glycol) ^{1,3}	≤ 0.10%
Identification B (Ethylene Glycol) ^{1,3}	≤ 0.10%
Identification C ¹	Passes Test
Appearance ²	Clear, colorless, viscous liquid
Assay (LISP) ^{1,2,3}	≥ 99.0 – 101.0 %
Purity (GLPC)	≥ 99.0 %
Impurity A ²	≤ 0.1%
Impurity A – other impurities ²	≤ 0.1 %
Impurity A – total impurities ²	≤ 0.5 %
Total Impurities ³	≤ 1.0 %
Any Other Impurities	≤ 0.1%
Specific Gravity (25°C) ¹	≥ 1.249
Color (APHA) ^{1,3}	≤ 10
Acidity or Alkalinity ^{2,3}	Passes Test
Residue on Ignition	≤ 0.007%

cont'd

Ash (sulfated) ²	≤ 0.01 %
Moisture (KF)	≤ 0.5%
Water (H₂O) ³	≤ 2.0%
Fatty Acid Esters (0.5N NaOH)	≤ 0.3 ml
Fatty Acids & Esterst (butyric acid) ^{1,3}	Passes Test
Esters ²	Passes Test
Refractive Index ^{2,3}	1.470 - 1.475
Aldehydes ²	≤ 10 ppm
Halogenated Compounds ²	≤ 35 ppm
Sugars ²	Passes Test
Chlorinated Compounds	≤ 0.003 %
Chloride (Cl) ^{2,3}	≤ 0.001 %
Ammonium (NH₄)	Passes Test
Sulfate (SO₄) ^{1,3}	≤ 0.002 %
Arsenic (As)	≤ 1.5 ppm
Calcium (Ca)	≤ 5 ppm
Iron (Fe)	≤ 5 ppm
Magnesium (Mg)	≤ 1 ppm
Mercury (Hg)	≤ 10 ppm
Zinc (Zn)	≤ 2 ppm
Heavy Metals (Pb) ²	≤ 2 ppm
Silver Reducing Substances	Passes Test
Readily Carbonizable Substances ³	Passes Test
DNase (endo)	Passes Test
DNase (exo)	Passes Test
RNase	Passes Test
Protease	Passes Test

Storage: Maintain in cool, dry containment.

Packaging:

1 = USP; 2 = EP/BP; 3 = JP