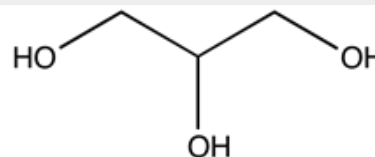


Identification

$C_3H_8O_3$
 M = 92,10 g/mol
 CAS [56-81-5]
 EC number: 200-289-5
 Taric code: 2905 45 00


Synonyms

Glycerin, 1,2,3-Propanetriol

Applications

analytical chemistry, synthesis of organic products, in explosive compositions, cosmetics, for pharmaceuticals synthesizing.

Specifications

assay (G.C.).....	min. 99,5 %	chromium (Cr).....	max. 0,02 ppm
assay (acidimetric, on dried sample).....	98,0 - 101,0 %	cobalt (Co).....	max. 0,05 ppm
identity (IR-spectrum).....	passes test	copper (Cu).....	max. 0,05 ppm
refractive index n ₂₀ /D.....	1,470 - 1,475	heavy metals (as Pb).....	max. 2 ppm
appearance of solution.....	passes test	iron (Fe).....	max. 0,1 ppm
colour (Hazen).....	max. 10	lead (Pb).....	max. 0,1 ppm
acidity or alkalinity.....	passes test	magnesium (Mg).....	max. 1 ppm
neutrality.....	passes test	manganese (Mn).....	max. 0,1 ppm
acrolein and glucose.....	passes test	nickel (Ni).....	max. 0,02 ppm
aldehydes.....	max. 10 ppm	tin (Sn).....	max. 0,1 ppm
halogenated compounds (as Cl).....	max. 30 ppm	zinc (Zn).....	max. 0,1 ppm
chlorides (Cl).....	max. 0,001 %	fatty acid esters (as butyric acid).....	max. 0,05 %
sulfates (SO ₄).....	max. 0,001 %	esters.....	passes test
aluminium (Al).....	max. 0,5 ppm	sugars.....	passes test
barium (Ba).....	max. 0,1 ppm	substances darkened by H ₂ SO ₄	passes test
boron (B).....	max. 0,02 ppm	impurity A and related substances.....	passes test
cadmium (Cd).....	max. 0,05 ppm	residue on ignition.....	max. 0,005 %
calcium (Ca).....	max. 1 ppm	water (K.F.).....	max. 0,5 %

Physical data

- Density: 1,26 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: 18 °C
- Boiling point: (0,09 hPa) 120 °C
- Flash point: 160 °C
- Ignition temperature: 400 °C
- Vapour pressure: (20 °C) < 0,001 hPa
- Expl. limit (lower): 0,9 Vol%
- pH(100 g/l H₂O, 20 °C) ~ 5
- Hygroscopic

Transport/storage

- 10°C - 30°C