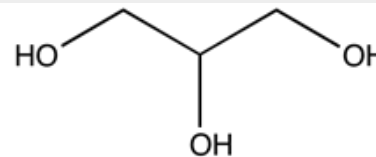


Identification

$C_3H_8O_3$
 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, in pharma industry.

Specifications

assay (acidimetric, on dried sample).....	99,0 - 101,0 %	fatty acids and esters.....	passes test
Identification IR.....	passes test	esters.....	passes test
Identification B (USP).....	passes test	impurity A and related substances.....	passes test
Identification C (USP).....	passes test	impurity A.....	max. 0,1 %
density (25°/25°).....	min. 1,249	any other impurity with retention time less than retention time of glycerol max. 0,1 %
refractive index n ₂₀ /D.....	1,470 - 1,475	total of all impurities with retention time greater than the retention time of glycerol.....	max. 0,5 %
appearance of solution.....	passes test	Related compounds:	
colour.....	passes test	individual impurity	max. 0,1 %
acidity or alkalinity.....	passes test	total impurities.....	max. 1,0 %
aldehydes.....	max. 10 ppm	limit of chlorinated compounds.....	passes test
halogenated compounds (as Cl)	max. 30 ppm	sugars.....	passes test
chlorides (Cl).....	max. 10 ppm	residue on ignition.....	max. 0,01 %
sulfates (SO ₄).....	max. 20 ppm	water (K.F.).....	max. 2,0 %

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