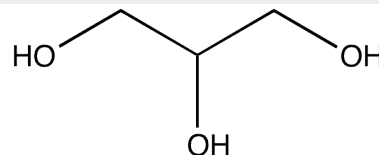


Identification

$C_3H_8O_3$
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

solvents, humectant, plasticizer, in food industry, cosmetics, in antifreeze compositions, in lubricant compositions.

Specifications

assay (G.C.).....	86 - 88 %	heavy metals (as Pb).....	max. 1 ppm
density (20°/4°).....	1,221 - 1,231	iron (Fe).....	max. 1 ppm
identity (IR-spectrum).....	passes test	aldehydes.....	max. 0,001 %
free acid (as CH_3COOH).....	max. 0,002 %	fatty acid esters (as	
free alkali (as NH_3)	max. 0,0005 %	glycerol tributyrat).....	max. 0,05 %
chlorides (Cl).....	max. 0,0001 %	other org. matter (as $CH_2=CHCHO$)	max. 0,005 %
sulfates (SO_4).....	max. 0,0005 %	glycerolaldehyde.....	max. 0,003 %
ammonium (NH_4).....	max. 0,0005 %	substances darkened by H_2SO_4	passes test
arsenic (As).....	max. 0,5 ppm	residue on ignition.....	max. 0,005 %
		water (K.F.).....	12 - 14 %

Physical data

- Density: 1,23 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: 17,8 °C
- Boiling point: > 130 °C
- Flash point: 160 °C
- Ignition temperature: ~ 429 °C
- Vapour pressure: (20 °C) ~ 8 hPa
- Dielectric const.: (20 °C) 42,5
- Expl. limit (lower): 0,9 Vol%
- pH(100 g/l H_2O , 20 °C) ~ 5

Transport/storage

- 5°C - 30°C