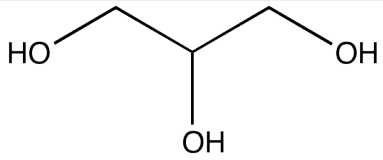
GL0026

Glycerol, 99,5%, for analysis, ExpertQ®, ACS, Reag. Ph Eur

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 %
assay (acidimetric, on dried sample)	98,0 - 101,0 %
identity (IR-spectrum)	passes test
refractive index n20/D	1,470 - 1,475
appearance of solution	passes test
colour (Hazen)	max. 10
acidity or alkalinity	passes test
neutrality	passes test
acrolein and glucose	passes test
aldehydes	max. 10 ppm
halogenated compounds (as Cl)	max. 30 ppm
chlorides (Cl)	max 0,001 %
sulfates (SO_4)	max. 0,001 %
aluminium (Al)	max. 0,5 ppm
barium (Ba)	max. 0,1 ppm
boron (B)	max. 0,02 ppm
cadmium (Cd)	max. 0,05 ppm
calcium (Ca)	max. 1 ppm
chromium (Cr)	max. 0,02 ppm
cobalt (Co)	max. 0,05 ppm
copper (Cu)	max. 0,05 ppm
heavy metals (as Pb)	max. 2 ppm
iron (Fe)	max. 0,1 ppm
lead (Pb)	max. 0,1 ppm
magnesium (Mg)	max. 1 ppm
manganese (Mn)	max. 0,1 ppm
nickel (Ni)	max. 0,02 ppm
tin (Sn)	max. 0,1 ppm
zinc (Zn)	max. 0,1 ppm
fatty acid esters (as butyric acid)	max. 0,05 %
esters	passes test
sugars	passes test
substances darkened by H_2SO_4	passes test
impurity A and related substances	passes test
residue on ignition	max. 0,005 %
water (K.F.)	max. 0,5 %

Physical data

- Density: 1,26 g/cm3
- Solub. in water: (20 ºC): miscible
- Melting point: 18 ºC
- Boiling point: (0,09 hPa) 120 ºC
- Flash point: 160 ºC
- Ignition temperature: 400 ºC
- Vapour pressure: (20 ºC) < 0,001 hPa
- Expl. limit (lower): 0,9 Vol%
- pH(100 g/l H_2O, 20 ºC) ~ 5
- Hygroscopic

Transport/storage

- 10°C - 30°C