Glycerin 86.5 %

Product specification

Item number: 40-003

Chemical product: Glycerin, min. 86.5 %
Chemical name: 1,2,3-Propantriol
Chemical formula: C3H8O3
Mol mass: 92.1 g/mol
CAS-No: 56-81-5
EINECS: 200-289-5

Appearance: Clear, colourless, syrupy liquid with only mild, characteristic odour, is neither strong nor unpleasant.

Origin: Pure vegetable basis. The quality meets the requirements of the European Food Safety Authority concerning the classification as food additive E422 Glycerin.

Parameter | USP/FCC/EP*  |
--- | --- |
Glycerin (Assay) | 83.5% - 88.5% |
Identification by GC | Pass |
Appearance of solution | Clear, Colourless |
Acidity or Alkalinity | <= 0.2 ml NaOH 0,1N |
Refractive index (nD20) | 1.449-1.455 |
Aldehydes | <= 10ppm |
Esters | >= 8 ml HCl 0,1N |
Impurities related substances (GC) | Pass |
Impurities after Glycerin peak | <= 0.5 % |
Impurities before Glycerin peak | <= 0.1 % |
Diethylenglycol (GC) | <= 0.1 % |
Fatty Acids and Esters | Pass |
Halogenated compounds <= 30ppm
Chlorinated compounds (as Cl) <= 30ppm
Sugars Pass
Chlorides (as Chlorine) <= 10ppm
Sulfates <= 20ppm
Heavy metals (as Pb) <= 5ppm
Water 12,0%-16,0%
Sulphated ash <= 0.01%
Density at 20°C 1.222-1.231 g/cm³
APHA-Colour ASTM D1209 <= 10
Residue on Ignition <=70ppm
Acrolein, Glucose and NH3 combinations Pass

*Conforming to the standards of the European Pharmacopoeia (EP), the United States Pharmacopeia (USP) and the Food Chemicals Codex (FCC).

Storage information: Approx. 1 year when stored in refined steel or aluminium tanks at temperatures of max. 40°C and kept under nitrogen blanket. The shelf life may decrease at higher temperatures.