

Glycerin 86.5 % Product specification

Item number: 40-003

Chemical product:	Glycerin, min. 86.5 %
Chemical name:	1,2,3-Propantriol
Chemical formula:	C ₃ H ₈ O ₃
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

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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 Pharmacopoeia (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.