

## Specification

### Glycerin, dest. 99,5% EP

CAS no.: 56-81-5  
EINECS no.: 200-289-5  
Chemical Designation: 1,2,3 Trihydroxypropane  
Physical Description: Clear, colourless liquid

Parameter	Test Method	Specification
Content chemically (%)	EP 05:0497	99,5 - 101,0
Content physical (%)	EP 2.2.6	99,7 - 100,6
Water (%)	EP 2.5.12	max. 0,5
Colour APHA	ISO 2211	max. 10
Chloride (ppm)	EP 2.4.4	max. 10
Sulphate ash (%)	EP 2.4.14	max. 0,01
Saponification equivalent (%Na <sub>2</sub> O)	EP 05:0497	max. 0,0248
Refractive index	EP 2.2.6	1,470 - 1,475
Density 20°C (g/cm <sup>3</sup> )	EP 2.2.5	min. 1,2603
Esters (ml)	EP 05:0497	min. 8
Halogenated compounds (ppm)	EP 05:0497	max. 35
Heavy metals (ppm)	EP 2.4.8	max. 5
Aldehydes, reducing substances (ppm)	EP 05:0497	max. 10
Acidity / alkalinity (ml)	EP 05:0497	max. 0,2
Identity A, C, D	EP 05:0497	meets test
Appearance	EP 2.2.1/2.2.2 method 2	meets test
Sugar	EP 05:0497	negative
Impurity A, similar compounds(%)	EP 2.2.28	
Impurity A (diethylene glycol) (%)	EP 2.2.28	max. 0,1
Any other impurities R(t)< Glycerol (%)	EP 2.2.28	max. 0,1
Any other impurities R(t)> Glycerol (%)	EP 2.2.28	max. 0,5

EP = European Pharmacopeia

USP = U.S. Pharmacopeia