

Specification

Glycerin, dest. 86,5% 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	85,0 – 88,0
Content physical (%)	EP 2.2.6	85,0 – 88,0
Water (%)	EP 2.5.12	12,0 – 15,0
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 ₂ O)	EP 05:0497	max. 0,0248
Refractive index	EP 2.2.6	1,449 - 1,455
Density 20°C (g/cm ³)	EP 2.2.5	1,2218 – 1,2300
Esters (ml)	EP 05:0497	min. 8
Halogenated compounds (ppm)	EP 05:0497	max. 30
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	EP 05:0497	meets test A
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		