

TRADE NAME	GLICERINA 99.5% SP
CHEMICAL NAME	GLYCEROL
ORIGIN	Vegetable
CAS NUMBER	56-81-5
EINECS NUMBER	200-289-5
QUALIFICATIONS	Conform EP/USP/E422 food grade– from rapseed oil only

	U.M.	Test methods	Values
Appearance		European Pharmacopeia	conform
Refractive Index at 20°C		European Pharmacopeia	1.471-1.475
Relative density at 25°C		European Pharmacopeia	1.258-1.268
Glycerol content	%(m/m)	Eur.Ph./APAG-GL-009	≥99.5
Water	%(m/m)	Eur.Ph./USP	<2
APHA Colour		ISO6271	≤10
Acidity o alkalinity	ml NaOH 0.1 N	European Pharmacopeia	< 0.2
Identification A/C		European Pharmacopeia	conform
Aldehydes	ppm	European Pharmacopeia	≤10
Halogenated compounds	ppm	European Pharmacopeia	≤35
Sugars		European Pharmacopeia	conform
Chlorides	ppm	European Pharmacopeia	≤10
Sulphated ash	%(m/m)	European Pharmacopeia	≤0.01
Esters	ml HCl 0.1 N	European Pharmacopeia	≥8
Impurity A & related substances		European Pharmacopoeia	conform
* Impurity A	%		≤0.1
* Any other imp. eluating before glycerol	%		≤0.1
* Total impurity eluating after glycerol	%		≤0.1
Identification B/C (GC)		USP	conform
Diethylene glycol		USP	≤0.1
Ethylene glycol		USP	≤0.1
Specific gravity at 25 °C		USP	≥1.249
Individual impurities	%	USP	≤ 0.1
Total impurities	%	USP	≤ 1.0
Fatty acids and esters	ml	USP	≤1
Limit of chlorinated compounds	% of Cl	USP	≤0.003
Sulfate	%	USP	≤0.002
Residue on ignition	%	USP	≤0.01
Butantrirole (GC)	%	USP	≤0.2
Odor		Organoleptical test	mild, typical
Identity (acroleine-test)		REG(EU)231/2012 E422	conform
Acroleine. Glucose, ammonium matter		REG(EU)231/2012 E422	conform
3-monochloropropan-1,2-diol	mg/kg	GC-MS	≤0.1
Arsenic	mg/kg	ISO 17294-2	≤3
Lead	mg/kg	ISO 17294-2	≤2
Mercury	mg/kg	ISO 16772	≤1
Cadmium	mg/kg	ISO 17294-2	≤1