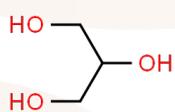


## GLYCERINE (Refined 99.5%)

### 1. Basic Information

Product Name	Glycerine (Refined 99,5%) vegetable Food Grade E422
Product Specification	DE000322 Ph. Eur. Food Material E422
Structural Formula	
Molecular Formula	C <sub>3</sub> H <sub>8</sub> O <sub>3</sub>
CAS No.	56-81-5

### 2. Specifications

Chemical Properties	Unit	Target Value	LT	UT	Inspection Method
Glycerine content	%		99,50		Ph. Eur.
Colour	APHA			10	ISO 6271
Sulphated ash	%	<=0,01			Ph. Eur.
Chlorides	PPM	<=10,0			Ph. Eur.
Halogenated compounds	PPM	<=35,0			Ph. Eur.
Arsenic (As)	MG/KG			0,100	Reg. (EU) No. 2023/1329
Lead (Pb)	MG/KG			0,100	Reg. (EU) No. 2023/1329
Cadmium (Cd)	MG/KG			0,100	Reg. (EU) No. 2023/1329
Mercury (Hg)	MG/KG			0,100	Reg. (EU) No. 2023/1329
Acrolein	MG/KG	<=3,0			Reg. (EU) No. 2023/1329
Aldehydes	PPM	<=10,0			Ph. Eur.
Water content	%			0,500	Ph. Eur.
Refractive index	ND 20		1,471	1,474	Reg. (EU) No. 2023/1329
Acidity or alkalinity	ML 0,1N NA			0,20	Ph. Eur.
Relative density at 20°C	G/CM <sup>3</sup>		1,2580	1,2680	Ph. Eur.
Esters	ML 0,1M HC		8,0		Ph. Eur.
Sugars		Negative			Ph. Eur.
Identification		A, B, C			Ph. Eur.
Appearance of solution		Passes test			Ph. Eur.
Characters		Clear, odourless, colourless			Ph. Eur.

# TECHNICAL SPECIFICATION

Any other impurities R(t) <Glycerol	%	<=0,1			Ph. Eur.
Impurity A (diethylene glycol)	%	<=0,1			Ph. Eur.
Total of all impurities R(t) >Glycerol	%	<=0,5			Ph. Eur.

### 3. Additional Information

**Glossary:**

**LT:** Lower Tolerance

**UT:** Upper Tolerance

Product complies to latest edition of European Pharmacopoeia (Ph. Eur.)

Food additive E422 acc. to EU-Regulation 2023/1329/EC; parameters supervised per monitoring.