

Technical Data Sheet

Version: 1.0 EN

Glycerin refined 86,5 % Ph. Eur., E 422

Article number: D10133

General Information

Origin	Produced on vegetable basis. Produced from Non-GMO sources and classified as food additive E 422.
CAS Number	56-81-5
EC Number	200-289-5
INCI	GLYCERIN
Molecular formular	C ₃ H ₈ O ₃
Appearance	Clear, colorless, hygroscopic, syrupy liquid
Packaging	1250 kg one way IBC containers and small containers
Shelf life	12 months
Applications	Application in cosmetics and food
Allergens	None of the 14 main allergens added or contained.
Compliance	FCC, USP, E 422, Regulation (EU) No. 1169/2011, Regulation (EU) No. 1223/2009, Regulation (EC) No. 1829/2003 and 1830/2003

Specification Values

Parameters	Value
Content	83.5 - 88.5 %
Solubility	Corresponds
Acid or alkaline reacting substances	≤ 0.2 ml NaOH 0.1N
Refractive index (nD20)	1.449 - 1.455
Aldehydes	≤ 10 mg/kg
Esters	≥ 8 ml HCl 0.1N
Impurities of related substances (GC)	Corresponds
Individual impurities before glycerol peak	≤ 0.1 %
Total impurities after glycerol peak	≤ 0.5 %
Individual	
Diethylene glycol (GC)	≤ 0.1 %

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Fatty acids and esters	< 0.1 %
Halogenated compounds	≤ 30 mg/kg
Chlorinated compounds (as Cl)	≤ 30 mg/kg
Sugars	Corresponds
Chlorides (as chlorine)	≤ 10 mg/kg
Sulphates	≤ 20 mg/kg
Lead	< 0, 1 mg/kg
Arsenic	< 0.1 mg/kg
Cadmium	< 0.1 mg/kg
Mercury	< 0.1 mg/kg
Water	12.0 - 16.0 %
Sulphated ash	≤ 0.01 %
Density at 20°C (Ph. Eur.)	1.221 - 1.232
Density at 25°C (E 422)	≥ 1.219
APHA color ASTM D1209	≤ 10
Acrolein	≤ 3 mg/kg
1,2,3-butanetriol and 1,2,4-butanetriol	Each < 0.05 %
Free 3-MCPD	< 0.05 mg/kg
Total microbial count	< 100 CFU/g
Coliforms	< 10 CFU/g
Yeast and molds	< 10 CFU/g

Additional Information

All details are based on our current state of knowledge and are not transferable to other products. They do not constitute a warranty or guarantee of specific properties or suitability for particular applications. Each use of our supplied products must be tested in the respective application and checked for any existing property rights. Color and form of the product may slightly vary within a production batch due to the manufacturing process.

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