



Specification

Concerning Product:	
Article number	56815VPEUL
Trade name / designation / denomination	Glycerin min. 86,5% EP/USP/FCC/E422
CAS number	56-81-5
Other names / synonyms	•Glycerine; •glycerol; •propane-1,2,3-triol;
EC number	200-289-5
Customs tariff number / CN code / TARIC	29054500
Molecular weight [g / mol]	92.09382
Formula	C ₃ H ₈ O ₃

Parameter	Specification	Unit
Organoleptic test		
Appearance of solution	clear and colourless	
Colour	* ≤ 10	APHA
Colour	clear and colorless	
Odour	characteristic, mild	
Physical parameter		
Acidity/Alkalinity	(0,1N NaOH): * ≤ 0,20	ml
Refraction index	(nD20): 1,449 – 1,455	
Density	20°C: * 1,222 – 1,231	g/ml
Form	syrupe liquid	
Loss on drying	* 12,0 – 16,0	%
Solubility	complies	
Identity		
Assay	* 83,5 – 88,5	%
Infrared absorption spectrometry	complies	
Impurities		
Aldehydes	≤ 10	ppm
Residue on ignition	≤ 70	ppm
Halogenated compounds	≤ 30	ppm
Sulphated ash	≤ 0,01	%
Sulphates (SO ₄)	≤ 20	ppm
Total Chlorines	≤ 30	ppm
Impurity	1,2,x-Butantriolo: ≤ 0,05	%
Impurity	3-MPCD: ≤ 0,05	ppm

Impurity	Acrolein + Glucose + NH ₃ : complies	
Impurity	Diethylenglycol: ≤ 0,1	%
Impurity	Ester (0,1N HCl): * ≥ 8,0	ml
Impurity	fatty acids and esters (as butyric acid): ≤ 0,1	%
Impurity	single impurity (HPLC): * ≤ 0,1	%
Impurity	total impurities (HPLC): ≤ 0,5	%
Related substances	complies	
Elemental Impurities		
Arsenic (As)	≤ 1	ppm
Cadmium (Cd)	≤ 1	ppm
Chlorides (Cl)	≤ 10	ppm
Mercury (Hg)	≤ 1	ppm
Lead (Pb)	≤ 2	ppm
Nutritional data		
Sugar	complies	
Microbiological data		
Aerobic microorganisms	≤ 100	CFU/g
Coliform bacteria	≤ 10	CFU/g
Yeast and Mould	≤ 10	CFU/g

Supplemental information:

Shelf life: 12 month

Derivation: pure vegetable basis

Storage conditions: In raffiniertem Stahl oder Aluminium bei einer Temperatur von max. 40°C und unter einer Stickstoffdecke aufbewahren.

Store in refined steel or aluminium at temperature of max. 40°C and keep under nitrogen blanket.

Complies with monographie: * Conforming to the standards of the European Pharmacopoeia (EP), the United States Pharmacopoeia (USP) and the Food Chemicals Codex (FCC).

The quality meets the requirements of the European Food Safety Authority concerning the classification as food additive E 422 "Glycerin".

Regional origin: D

Chemische Werke Hommel GmbH & Co.KG

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Waltrop, 14. Apr. 2020

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