



## Specification

Concerning Product:	
Article number	56815TEUP
Trade name / designation / denomination	Glycerin 99,5% pflanzlich (vegetable) EP
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 <sub>3</sub> H <sub>8</sub> O <sub>3</sub>

Parameter	Test Method	Specification	Unit
<b>Organoleptic test</b>			
Appearance	EP	Clear	
Colour	ASTM D1209 / ISO 627	≤ 10	Hazen
<b>Physical parameter</b>			
Acidity/Alkalinity	EP	0,1N NaOH ≤ 0,20	ml
Refraction index	EP	@ 20°C: 1,470 – 1,475	
Density	EP	@ 20°C ≥ 1,260	g/cm <sup>3</sup>
Loss on drying	EP	≤ 0,5	%
<b>Identity</b>			
Assay	EP	≥ 99,5	%
<b>Impurities</b>			
Aldehydes	EP	≤ 10	mg/kg / ppm
Ammonium	E422	Acrolein, Glucose, Ammoniumcompounds / Acrolein, Glucose, Ammoniumverbindung: Pass	%

Halogenated compounds	EP	≤ 35	mg/kg / ppm
Heavy Metals (as Pb)		≤ 5	mg/kg / ppm
Sulphated ash	EP	≤ 0,01	%
Sulphates (SO <sub>4</sub> )	EP	≤ 20	mg/kg / ppm
Impurity	E422	3-MCPD ≤ 0,1	mg/kg / ppm
Impurity	EP	A (DEG) ≤ 0,1	%
Impurity	EP	Ester 0,1 m HCl-solution ≥ 8,0	ml
Impurity	EP	related substances ≤ 0,5	%
<b>Elemental Impurities</b>			
Arsenic (As)		≤ 2	mg/kg / ppm
Cadmium (Cd)		≤ 1	mg/kg / ppm
Chlorides (Cl)	EP	≤ 10	mg/kg / ppm
Mercury (Hg)		≤ 1	mg/kg / ppm
Lead (Pb)		≤ 2	mg/kg / ppm
<b>Nutritional data</b>			
Sugar	EP	pass	

### Supplemental information:

**Storage conditions:** Approx. 1 year when stored in refined steel or aluminium tanks at temperatures of max. 40°C and kept under nitrogen blanket. The shelf life may decrease at higher temperatures.

Chemische Werke Hommel GmbH & Co.KG

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Waltrop, 21. Aug. 2019

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