

TECHNICAL DATA SHEET

Effective date: 04.2019

Glycerin

INFORMATION ON SUBSTANCE / MIXTURE

INCI	Glycerin
Chemical description	1,2,3-Propantriol
Chemical formula	C ₃ H ₈ O ₃
Origin	Pure vegetable basis..
Raw material category	Humectant
Description	Min. 99.5 %, hygroscopic

TECHNICAL DATA

Composition*

Glycerin (Assay)	98.0 % - 100.0 %
Aldehydes	< 10 ppm
Esters	> 8 ml HCl 0,1N
Diethylenglycol (GC)	< 0.1 %
Fatty Acids and Esters (expressed as butyric acid)	< 0.1 %
Halogenated compounds	< 35 ppm
Chlorinated compounds (as Cl)	< 30 ppm
Chlorides (as Chlorine)	< 10 ppm
Sulfates	< 20 ppm
Heavy metals (as Pb)	< 5 ppm
Lead (Pb)	< 2 ppm
Arsenic (As)	< 1 ppm
Cadmium (Cd)	< 1 ppm
Mercury (Hg)	< 1 ppm
Water	< 2.0 %
1,2,3-Butantrirole and 1,2,4- Butantrirole	Each < 0.05 %
Free 3-MPCD	< 0.05 mg/kg

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Physical and chemical parameters*

Appearance	Syrupy liquid
Color	Clear, colorless
Odor	Mild, characteristic that is neither strong nor unpleasant.
Molecular weight	92.1 g/mol
Acidity or Alkalinity	< 0.2 ml NaOH 0,1N
Refractive index (nD20)	1.470 - 1.475
Impurities after Glycerin peak	< 0.5 %
Impurities before Glycerin peak	< 0.1 %
Sulphated ash	< 0.01 %
Density at 20°C	1.260 - 1.264 g/cm ³
APHA-Colour ASTM D1209	< 10
Residue on Ignition	<70ppm
Identification by GC	Pass
Impurities related substances (GC)	Pass
Sugars	Pass
Acrolein, Glucose and NH3 combinations	Pass

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

Biological parameters

Aerobic plate count	< 100 cfu/g
Coliforms	< 10 cfu/g
Yeast and Molds	< 10 cfu/g

TRANSPORT, STORAGE and SHELF LIFE

Storage conditions	Keep in tightly closed containers in a cool and dry place, protected from light. Stable at usual storage and use conditions.
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Shelf Life	36 months under good storage conditions
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LEGISLATION

EINECS	200-289-5
CAS	56-81-5

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