

Product Specification

Product: Glycerine (86,5%)

Chemical name: Propane-1,2,3-triol
 Chemical formula: C₃H₈O₃
 CAS-Nr.: 56-81-5
 EINECS: 200-289-5
 Origin: By-product from production of biodiesel
 Character: Clear, colour- and odourless fluid (viscous), hygroscopic
 REACH: Annex V No. 9 legislation (EU) No. 1907/2006
 Remarks: For technical use only – not suitable for use in the food or feed chain

| No. | Characteristics | Method ¹⁾ | Specification |
|-----------|--------------------------------------|----------------------|---------------|
| 1. | Physical Characteristics | | |
| 1.1 | Identification A,C | 11.0:0497 | complies with |
| 1.2 | Apperance of solution | 2.2.1/2.2.2 | complies with |
| 1.3 | Refractive index at 20°C | 2.2.6 | 1,449 – 1,455 |
| 1.4 | Glycerine content, phys. (%) | 2.2.6 | 84,0 – 88,0 |
| 1.5 | Density at 20°C (g/cm ³) | 2.2.5 | 1,221 – 1,232 |
| 1.6 | Colour APHA | ISO 2211 | max. 10 |
| 2. | Chemical Characteristics | | |
| 2.1 | Glycerine content, chem. (%) | 11.0:0497 | 83,5 – 88,5 |
| 2.2 | Acidity and alkalinity (ml) | 11.0:0497 | max. 0,2 |
| 2.3 | Aldehydes (ppm) | 11.0:0497 | max. 10 |
| 2.4 | Esters (ml) | 11.0:0497 | min. 8 |
| 2.5 | Water content (%) | 2.5.12 | 12,0 – 16,0 |
| 2.6 | Sugar | 11.0:0497 | negative |
| 2.7 | Chloride (ppm) | 2.4.4 | max. 10 |
| 2.8 | Sulfated ash (%) | 2.4.14 | max. 0,01 |
| 2.9 | Heavy metals (ppm) | 2.4.8 | max. 5 |
| 2.10 | Halogenated compounds (ppm) | 11.0:0497 | max. 30 |
| 2.11 | Impurity A, related substances | | |
| 2.11.1 | Diethyleneglycol (%) | 2.2.28 | max. 0,1 |
| 2.11.2 | Peaks R(t) < Glycerine (%) | 2.2.28 | max. 0,1 |
| 2.11.3 | Peaks R(t) > Glycerine (%) | 2.2.28 | max. 0,5 |

¹ Ph.Eur. = European Pharmacopoeia