



TECHNICAL DATA SHEET

GLYCEROL (GLYCERINE) AR

1,2,3-Propanetriol; Glycerin

Article No.	201191000	Molecular Formula	C ₃ H ₈ O ₃
H.S. Code	2905.4500	Molecular Weight	92.09
CAS No.	56-81-5		

Physical Properties

Physical state at 20 °C	Liquid
Colour	Clear colorless
Odour	Odorless
pH value	5.5 - 8
Melting point [°C]	20 °C
Auto-ignition temperature [°C]	370°C
Flash point [°C]	160 °C
Boiling point [°C]	182 °C
Vapour pressure mm/Hg	0.0033 mm Hg at 50 °C
Vapour density	3.18
Density [g/cm ³]	1.25
Solubility in water [% weight]	Soluble in water
Explosion limits -lower [%]	0.90%

Specifications

Assay (on anhydrous basis) Min 99.5%
Fatty acids and ester Max 1.0 ml of 0.5N
NaOH consumed
Chloride (Cl) Max 0.001%
Sulfate (SO₄) Max 0.002%
Chlorinated compounds Max 0.003%
Moisture Max 0.5%
Heavy metals Max 0.0005%
Residue on ignition Max 0.01%
Specific gravity at 25 °C Min 1.249
Total impurities (Chromatographic
including Diethylene glycol) Max 1.0%
Individual impurities Max 0.1%

