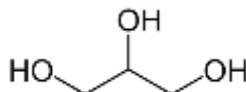


TIQ-F-QC-003
Rev.00**Technical Data Sheet****GLYCEROL 87 % AR**

1,2,3-Propanetriol, Glycerin, Trihydroxylpropane, Protol,



Product Code	B-3100	Grade	Analytical Reagent
Purity	87%	CAS No	56-81-5
Molecular Formula	C ₃ H ₈ O ₃	Molecular Weight	92.09 g/mol
H.S.Code	2905.4500	Shelf Life	48 Months

Physical Properties

Physical state at 20 °C	Viscous	Colour	Clear colourless
Odour	Odorless	Melting Point/ Freezing point (°C)	20°C
Boiling Point	182°C	Flash point (°C)	199 °C at ca.1013,0 hPa
pH value	5 at 100 g/l at 20 °C	Vapour pressure	< 0,001 hPa at 20 °C
Vapour Density	3.18	Density (g/cm ³)	1.25
Solubility in water (% weight)	1.000 g/l at 25 °C	Explosion limits – lower (%)	2,7 %(V) at 1013 hPa
Auto-ignition temperature (°C)	370°C	Explosion limits – upper (%)	19 %(V) at 1013 hPa
Partition coefficient: noctanol/water	log Pow: -1,75 at 25 °C		

Packaging

500 ml

Specification

Appearance	A clear colourless viscous liquid
Assay (as C ₃ H ₈ O ₃)	86.0 - 88.0 %
Identity	passes test
Appearance of solution	passes test
Insoluble matter in water	passes test
Wt. Per ml at 20 °C	1.224 – 1.232 g/cm ³
Refractive Index (n _D ²⁰)	1.449 – 1.455
Acidity	max 0.0005 meq/g
Alkalinity	max 0.0003 meq/g

Water	12.0 - 14.0 %
Heavy metal (as Pb)	max 0.0005 %
Chloride (Cl)	max 0.0001 %
Sulphate (SO ₄)	max 0.002 %
Iron (Fe)	max 0.0001 %
Ammonium (NH ₄)	max 0.0005 %
Halogenated compound (as Cl)	max 0.003 %
Aldehydes	max 0.003 %
Esters	passes test
Ester of Fatty acids (as C ₁₅ H ₂₆ O ₆)	max 0.05 %
Sugar	passes test
Residue on ignition (as SO ₄)	max 0.005%
Substance darkened by H ₂ SO ₄	passes test
Reducing substances(as AgNO ₃)	passes test

Safety Information and Hazard Symbols

NO GHS

Symbol: not applicable

Signal Word: Warning

UN No.: not applicable

IMCO Class No.: not applicable

Packing Group: not applicable

Hazardous Statement: not applicable

Precaution Statement: not applicable