

TIQ-F-QC-003
 Rev.00

Technical Data Sheet

ETHYLENE GLYCOL 99,5 % AR

1,2-Ethanediol 99,5%



Product Code	B-3031	Grade	Analytical Reagent
Purity	99,5%	CAS No	107-21-1
Molecular Formula	C ₂ H ₆ O ₂	Molecular Weight	62.07 g/mol
H.S.Code	2905.3100	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Liquid	Colour	Colourless
Boiling Point	197,4 °C at 1.013 hPa	Melting Point/ Freezing point (°C)	- 13 °C at 1.013 hPa
Vapour Density	2.14	Flash point (°C)	111°C
Solubility in water (% weight)	Completely miscible	Vapour pressure (20 °C)	1 hPa at 51,1 °C
Evaporation rate	1	Relative density (g/cm ³)	1.113 g/ml at 25°C
Auto-ignition temperature (°C)	412 °C at 1.013 hPa	Explosion limits – upper (%)	15.30%
Partition coefficient Log Pow octanol / water at 20°C	-1.36	Explosion limits – lower(%)	3.20%

Packaging

500 ml & 2500 ml

Specification

Appearance	A clear very hygroscopic syrupy liquid
Assay (GC)	min 99.5 %
Wt.per ml at 20 °C	1.112 – 1.114 g/cm ³
Refractive index (n _D ²⁰)	1.431 – 1.433
Colour scale	max 10 Hazen
Insoluble matter	Passes test
Water (H ₂ O)	max 0.1 %
Acidity (as CH ₃ COOH)	max 0.001 %
Sulphated ash	max 0.005 %
Chloride (Cl)	max 0.00002 %
Sulfate (SO ₄)	max 0.002 %

Copper (Cu)	max 0.0001 %
Iron (Fe)	max 0.0001 %
Lead (Pb)	max 0.0001 %
Formaldehyde (HCHO)	max 0.005 %
Substance reducing KMnO_4 (as O)	max 0.0003 %

Safety Information and Hazard Symbols



Symbol: GHS07, GHS08

Signal Word: Warning

UN No.: not applicable

IMCO Class No.: not applicable

Packing Group: not applicable

Hazardous Statement: H302-H373

Precaution Statement: P260-P301+P312+P330-P314