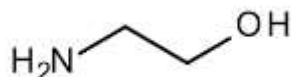


TIQ-F-QC-003
 Rev.00

Technical Data Sheet

ETHANOLAMINE 99 % AR

Monoethanolamine, 2-Aminoethyl alcohol, 2-Aminoethanol



Product Code	B-3033	Grade	Analytical Reagent
Purity	99%	CAS No	141-43-5
Molecular Formula	C ₂ H ₇ NO	Molecular Weight	61,08 g/mol
H.S.Code	2922.1190	Shelf Life	60 Months

Physical Properties

Physical state	Liquid, clear	Melting point	10 - 11 °C
Colour	Colourless	Boiling point	170 °C - lit. 69 - 70 °C at 13 hPa
Odour	Amine-like	Partition coefficient: noctanol/water	log Pow: -2,3 at 25 °C
pH value	12,1 at 100 g/l at 20 °C	Vapour pressure	1 hPa at 108 °C
Solubility in water	105 g/l at 20 °C	Flash point	91 °C at ca.1.013 hPa
Density	1,012 g/cm ³ at 25 °C	Solubility in water	1.000 g/l at 20 °C
Explosion limits-lower (%)	2,5 %	Auto-ignition temperature	424 °C at 1.013 hPa
Explosion limits – upper (%)	17 %	Vapour density	0,5 hPa at 20 °C

Packaging

500 ml

Specification

Appearance	a clear Viscous Hygroscopic liquid
Assay (by GC)	min 99.0 %
Wt. Per ml at 20 °C	1.016 – 1.020 g/cm ³
Colour	max 15 Hazen
Water (H ₂ O)	max 0.3 %
Non-volatile matter	max 0.2 %
Ethanol (GC)	max 0.1 %
Diethanolamine(GC)	max 0.3 %
Triethanolamine(GC)	max 0.1 %
Sulphated Ash	max 0.02 %

Copper (Cu)	max 0.0005 %
Iron(Fe)	max 0.0005 %
Heavy Metals (as Pb)	max 0.0005 %
Identity (IR)	passes test

Safety Information and Hazard Symbols



Symbol: GHS05, GHS07

Signal Word: Danger

UN No.: 2491

IMCO Class No.: 8

Packing Group: III

Hazardous Statement: H302-H312+H332-H314-H335-H412

Precaution Statement: P273-P280-P301+P312-P303+P361+P353-P304+P340+P310IF-P305+P351+P338