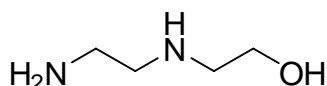


Technical Data Sheet

AMINOETHYLETHANOLAMINE (AEEA)

General



MW: 104.15 gmol⁻¹
CAS No.: 111-41-1
EINECS No.: 203-867-5
IUPAC name: 2-(2-aminoethylamino)ethanol

Aminoethylethanolamine (AEEA; CAS 111-41-1) is a linear molecule with primary and secondary amine groups. AEEA appears as a colorless liquid, but with slightly higher viscosity than ethylenediamine (EDA) and diethylenetriamine (DETA).

Aminoethylethanolamine is an amine with unique characteristics and is commonly used as an intermediate in the fabrication of detergents, fabric softeners, chelates, fuel additives and coatings.

Sales Specification

Characteristic	Unit	Specification	Methods of Analysis
Appearance	-	Clear liquid	200
Assay	w%	min 99.6	553
Ethylenediamine	ppm	max 100	558
Water	w%	max 0.2	305
Color	Hazen	max 20	201

Methods of Analysis are available upon request.

In case of dispute, the listed Method of Analysis will be used as reference methods.

Physical and Chemical Properties

Property	Value	Property	Value
Form	viscous liquid	pH	12 at 25 % solution
Colour	colourless	Melting point/freezing point	-38 °C at 1 013 hPa
Odour	ammoniacal	Boiling point/boiling range	243 °C at 1 013 hPa
Flammability (liquids)	Not classified as a flammability hazard	Flash point	132 °C at 1 013 hPa
Explosive properties	Not explosive	Ignition temperature	> 150 °C
Oxidizing properties	The substance or mixture is not classified as oxidizing.	Vapour pressure	0,012 hPa at 20 °C
Water solubility	Miscible.	Relative vapour density	3,6
Solubility in other solvents	Soluble in ethanol.	Density	1 024 kg/m ³ at 25 °C
		Relative density	1,026 at 25 °C
		Partition coefficient: n-octanol/water	log Pow: -1,46 at 25 °C
		Viscosity, dynamic	141 mPa.s at 20 °C

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