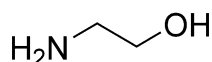


Technical Data Sheet MONOETHANOLAMINE (MEA)

General



MW: 61.1 g mol⁻¹
CAS No.: 141-43-5
EINECS No.: 205-483-3
IUPAC name: 2-aminoethanol

Monoethanolamine (MEA; CAS 141-43-5) is a simple small ethanolamine with one primary amine and one alcohol group. It is a colorless liquid with a mild odour of ammonia. MEA is mainly used in wetting natural gas and coal gas, and as soap or amides in heavy-duty detergents. Monoethanolamine is also used in the production of ethylene amines.

Sales Specification

Characteristic	Unit	Specification	Methods of Analysis
Appearance	-	Clear liquid	200
Assay	w%	min 99.5	548
Diethanolamine	w%	max 0.20	548
Water	w%	max 0.25	305
Color	Hazen	max 15	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	12,1 at 20 °C
Colour	colourless	Melting point/freezing point	4 °C at 1 013 hPa
Odour	amine-like	Boiling point/boiling range	167 °C at 1 013 hPa
Flammability (liquids)	Product is combustible at high temperatures	Flash point	92,5 °C Method: ISO 2719
Explosive properties	Not explosive	Vapour pressure	0,5 hPa at 20 °C
Oxidizing properties	The substance or mixture is not classified as oxidizing	Relative vapour density	2,1
Water solubility	completely miscible	Density	1 016 kg/m ³ at 20 °C
Solubility in other solvents	Soluble in ethanol and acetone	Relative density	1,016 at 20 °C
		Partition coefficient: n-octanol/water	log Pow: -2,3 at 25 °C
		Viscosity, dynamic	23,18 mPa.s at 20 °C

This information is issued by AkzoNobel to Customer. The information is, to AkzoNobel's actual knowledge and understanding of the subject matter in this document, considered accurate and reliable as of the date appearing above and is presented in good faith. Because production process as well as use conditions and applicable laws may differ from one location to another and may change over time, Customer is responsible for determining whether the information in this document is appropriate for Customer use and at the time in question. Since AkzoNobel has no control over how this information may be ultimately used and for other reasons stated above, all liability is expressly disclaimed and AkzoNobel assumes no obligation or liability therefore. No warranty, express or implied, is given, including without limitation warranties of fitness for particular purpose or non-infringement, each of which is specifically disclaimed.