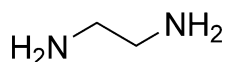


Technical Data Sheet ETHYLENEDIAMINE (EDA)

General



MW: 60.1 g mol⁻¹
CAS No.: 107-15-3
EINECS No.: 203-468-6
IUPAC name: Ethane-1,2-diamine

Ethylenediamine (EDA; 1,2-diaminoethane; CAS 107-15-3) is the ethyleneamine with the lowest molecular weight. It contains two primary amine groups and appears as a colorless liquid. Ethylenediamine is a highly reactive and versatile molecule. It is commonly used as an intermediary to produce detergents, paper chemicals, textile auxiliaries, fungicides and polyamides.

Sales Specification

Characteristic	Unit	Specification	Methods of Analysis
Appearance	-	Clear fuming liquid	200
Assay	w%	min 99.5	543
Water	w%	max 0.3	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	12,8 at 25 % solution
Colour	Colourless, light yellow	Melting point/freezing point	11 °C at 1 013 hPa
Odour	ammoniacal	Boiling point/boiling range	117 °C at 1 013 hPa
Flammability (liquids)	Flammable liquid and vapour	Flash point	38 °C at 1 013 hPa Method: closed cup
Explosive properties	Not explosive	Ignition temperature	> 300 °C
Oxidizing properties	The substance or mixture is not classified as oxidizing	Vapour pressure	17,3 hPa at 26,6 °C
Water solubility	completely miscible	Relative vapour density	2,1
Solubility in other solvents	Very soluble in ethanol and benzene	Density	895 kg/m ³ at 20 °C
		Relative density	897 at 20 °C
		Partition coefficient: n-octanol/water	log Pow: -1,6 at 20 °C
		Viscosity, dynamic	1,265 mPa.s at 25 °C

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