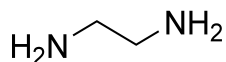


## Technical Data Sheet

# ETHYLENEDIAMINE (EDA)

### General



MW: 60.1 gmol<sup>-1</sup>  
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 <sup>3</sup> 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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