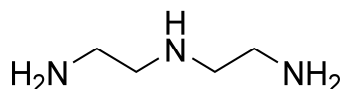


## Technical Data Sheet DIETHYLENETRIAMINE (DETA)

### General



MW: 103.2 gmol<sup>-1</sup>  
CAS No.: 111-40-0  
EINECS No.: 203-865-4  
IUPAC name: N'-(2-aminoethyl)ethane-1,2-diamine

Diethylenetriamine (DETA; CAS 111-40-0) is another aliphatic ethylene amine with two primary and one secondary amine groups. Just like EDA, DETA presents itself as a clear, colorless liquid. Typical application areas of diethylenetriamine include chelating agents, wet-strength resins, lubricant oil additives, oil field chemicals and polyamides for resins or epoxy curing agents

### Sales Specification

Characteristic	Unit	Specification	Methods of Analysis
Appearance	-	Clear liquid	200
Assay	w%	min 98.5	552
Water	w%	max 0.5	305
Color	Hazen	max 30	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 20 °C
Colour	colourless	Melting point/freezing point	-39 °C at 1 013 hPa
Odour	ammoniacal	Boiling point/boiling range	207 °C at 1 013 hPa
Flammability (liquids)	Not classified as a flammability hazard	Flash point	96,7 °C at 1 013 hPa Method: Pensky-Martens closed cup
Explosive properties	Not explosive	Vapour pressure	0,2 hPa at 20 °C
Oxidizing properties	The substance or mixture is not classified as oxidizing	Relative vapour density	3,6
Water solubility	soluble	Density	957 kg/m3 at 20 °C
Solubility in other solvents	Soluble in alcohols and hydrocarbons	Relative density	0,959 at 20 °C
		Partition coefficient: n-octanol/water	log Pow: -1,58 at 20 °C
		Viscosity, dynamic	5,05 mPa.s at 20 °C

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