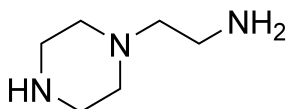


Technical Data Sheet

AMINOETHYLPIPERAZINE (AEP)

General



MW: 129.2 gmol⁻¹
CAS No.: 140-31-8
EINECS No.: 205-411-0

IUPAC name: 2-piperazin-1-ylethylamine

Aminoethylpiperazine (AEP; CAS 140-31-8) is an ethylene amine with unique molecular structure, as it contains one primary, one secondary and one tertiary amine. AEP is a colorless liquid with a broad liquid range. This makes it a suitable raw material for a large variety of applications including corrosion inhibitors, urethane catalysts and epoxy hardeners

Sales Specification

Characteristic	Unit	Specification	Methods of Analysis
Appearance	-	clear liquid	200
Assay	w%	Min 98.0	564
Water	w%	max 0.5	305
Color	Hazen	max 50	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 1 % solution
Colour	colourless	Melting point/freezing point	-19 °C at 1 013 hPa
Odour	ammoniacal	Boiling point/boiling range	220,4 °C at 1 013 hPa
Flammability (liquids)	Not classified as a flammability hazard	Flash point	99 °C at 1 013 hPa Method: ASTM D 93
Explosive properties	Not explosive	Ignition temperature	> 300 °C
Oxidizing properties	The substance or mixture is not classified as oxidizing	Vapour pressure	0,015 hPa at 20 °C
Water solubility	completely miscible	Relative vapour density	4,5
Solubility in other solvents	Miscible with ethanol	Density	984 kg/m ³ at 20 °C
		Relative density	0,980 at 20 °C
		Partition coefficient: n-octanol/water	log Pow: -1,48 at 20 °C
		Viscosity, dynamic	14,1 mPa.s at 20 °C

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