



**A SUBSIDIARY OF**

**AMINES LIMITED**

Manufacturers of Methyl Amines, Ethyl Amines,  
other derivatives of Amines & Speciality Chemicals

**REGD. OFFICE :**

2nd Floor, "BALAJI TOWERS", No. 9/1A/1, Hotgi Road,  
Aasara Chowk, SOLAPUR - 413 224. Maharashtra, INDIA.

Ph. : +91-217-2606006

E-mail : info@balajispecialitychemicals.com

**SPECIALITY CHEMICALS LTD.**

## ETHYLENEDIAMINE (EDA)

<b>CAS NO.</b>	:	107-15-3
<b>STRUCTURES</b>	:	$H_2NCH_2CH_2NH_2$
<b>SPECIFICATION</b>	:	Assay, EDA, wt. : NLT. 99.5%
	:	Water, wt. : NMT. 0.5%
	:	Impurities : NMT. 0.5%
	:	Molecular Weight : 60.1
	:	Melting temperature, °C : 10.7
	:	Boiling temperature °C : 117-118
	:	Density @ 20°C, g/cm <sup>3</sup> : 0.898
	:	Flash point, °C : 38
	:	Ignition temperature °C : 405
	:	specific Gravity at 20/20°C : 0.898
	:	Freezing Point °C : 11
	:	pH of 1 wt.% Solution : 11.7
	:	Nitrogen content : wt.% 46.6
	:	Amine value, mg KOH/g : 1860



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## APPLICATIONS :

INTERMEDIATE USED IN THE PRODUCTION OF :

- BLEACH ACTIVATOR
- CHELATING ADDITIVES
- CORROSION INHIBITORS
- ELASTOMERIC FIBERS
- FUNGICIDES
- FUEL
- ADDITIVES
- MINERAL PROCESSING AIDS
- PHARMACEUTICAL INTERMEDIATE
- PLASTIC LUBRICANTS
- POLYAMIDE RESINS
- RUBBER PROCESSING ADDITIVES
- TEXTILE INDUSTRY
- URETHANE CHEMICALS

PACKING - IN BULK AND DRUMS

EC NO. : 203-468-6

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## PIPERAZINE (Anhydrous)

<b>CAS NO.</b>	:	110-85-0
<b>STRUCTURES</b>	:	HN  NH
<b>SPECIFICATION</b>	:	Appearance : White Flakes
		Assay Weight % : 99.7%
		Colour APHA : 50 APHA Max
		Water Weight % : 0.50 Max
		Relative Density (124/4°C) : 0.876
		Boiling Point at 101.3 kPa [°C] : 148
		at 1.33 kPa [°C] : ---
		Freezing Point [°C] : 110
		Vapour Pressure at 20 °C [Pa] : 280
		Total Nitrogen content [wt.%] : 32.5
		Total Amine Value [mgKOH/gr] : approx. 1300



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## PIPERAZINE 68%

### SPECIFICATION

Appearance	:	Clear Colourless Liquid
Assay weight %	:	67 to 69 %
Colour	:	30 APHA Max
pH value: 13.7	:	(45°C)
Melting Range	:	29 - 48°C
Boiling Range	:	100 - 148°C
Flash Point	:	73.7°C
Flammability	:	Highly flammable
Autoignition	:	355°C
Density	:	1.016 g/cm <sup>3</sup> (50°C)
Bulk Density	:	1.016 g/cm <sup>3</sup> (50°C)
Solubility in water	:	(20°C) miscible

### APPLICATIONS :

PIPERAZINE IN WATER USE :

CHEMICAL USED IN SYNTHESIS AND/OR FORMULATION OF INDUSTRIAL PRODUCTS.

LIKE

▣ POLYAMIDE RESINS

▣ ANTHELMINTICS

▣ URETHANES

EC NO. : 203-808-3

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## AMINOETHYLETHANOLAMINE (AEEA)

2-(2-Aminoethyl)aminoethanol

<b>CAS NO.</b>	:	111-41-1
<b>STRUCTURES</b>	:	<chem>NCCNCCO</chem>
<b>APPEARANCE</b>	:	Colorless liquid; substantially free of foreign matter
		Boiling point, °C (°F) : 243 (470)
		Density, g/ml, 20 °C : 1.03
		Flash point, PMCC, °C (°F) : 132 (270)
		Molecular weight : 104.2
		pH : 11.5
		Vapor pressure, mm Hg, 20°C (68°F) : < 0.01
		Viscosity, cP, 20°C : 88.4
		Water Solubility : > 10
		Purity by GC : 99.6 % min.
		Color, Pt-Co : 25 max.
		Water Content, by KF : 0.2 max
		Ethylenediamine, ppm : 100 max

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### APPLICATIONS :

Globally, AEEA is used as an important intermediate in the manufacture of lube oil additives, fuel additives, chelating agents, surfactants and fabric softeners among other applications

AEEA is used in the production of industrial and consumer products. Based on the uses for AEEA.

### HANDLING AND STORAGE :

In order to maintain the high degree of purity with which aminoethylethanolamine (AEEA) is manufactured and shipped, the following storage and handling considerations are recommended:

#### DRY INERT GAS BLANKET

This product should be stored under a dry inert gas blanket, such as nitrogen, to minimize contamination resulting from contact with air and water.

### PACKING :

Aminoethylethanolamine (AEEA) is available in bulk and in Drums of 210 Kg net weight.

EC Number : 203-867-5

[info@balajispecialitychemicals.com](mailto:info@balajispecialitychemicals.com)



*Balaji*

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
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## AMINOETHYLPIPERAZINE (AEP)

<b>CAS NO.</b>	:	140-31-8
<b>STRUCTURES</b>	:	HN  NC <sub>2</sub> H <sub>4</sub> NH <sub>2</sub>
<b>SPECIFICATION</b>	:	Assay, Weight % : NLT. % 98.0 Water : 0.5% Max Colour APHA : 50 Max Appearance : Clear Solution Relative Density (20/20°C) : 0.986 Boiling Point at 101.3 kPa [°C] : 222 at 1.33 kPa [°C] : 100 Freezing Point [°C] : -18 Vapour Pressure at 20 °C [Pa] : 8 Total Nitrogen content [wt.%] : 32.5 Viscosity at 20 °C [mPa.s] : 15 Total Amine Value [mgKOH/gr] : approx. 1300

*Balaji*

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## APPLICATIONS :

- ▶ ASPHALT CHEMICALS
- ▶ CORROSION INHIBITORS
- ▶ EPOXY CURING AGENTS
- ▶ ORE FLOTATION AGENTS
- ▶ URETHANES
- ▶ MINERAL PROCESSING AIDS
- ▶ PETROLEUM PRODUCTION CHEMICALS
- ▶ POLY AMIDE RESINS

EC NO. : 205-411-0

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