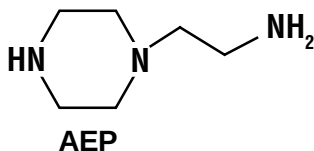




Aminoethylpiperazine (AEP)

CAS #000140-31-8, 1-piperazineethaneamine

Aminoethylpiperazine (AEP)



Aminoethylpiperazine (CAS #000140-31-8, 1-piperazineethaneamine) is a single-component cyclic ethyleneamine with one primary, one secondary, and one tertiary amine. It is clear and colorless and has an ammonia-like odor.

Applications

- Asphalt Additives
- Corrosion Inhibitors
- Epoxy Curing Agents
- Mineral Processing Aids
- Petroleum production chemicals
- Polyamide Resins
- Urethane Chemicals

Typical Physical Properties of Aminoethylpiperazine (AEP)

The data provided for these properties are typical values, and should not be construed as sales specifications.

Property	SI Units
Molecular Weight	
(Linear component)	129.21
(Typical product)	128.8
Boiling Point @ 760 mm Hg, °C	221.0
Freezing Point, °C	-17
Density, g/ml @ 20°C	0.983
Specific gravity 20°/20°	0.985
Viscosity, cp @ 20°C	15.4
Kinematic viscosity, cst @ 25°C	12.1
Kinematic viscosity, cst @ 40°C	6.5
Vapor pressure @20°C, mm Hg	<0.01
Specific heat, cal/g °C @ 25°C	0.52
Thermal conductivity cal/cm-sec-°C @ 20°C	0.000434
Surface tension, dynes/cm @ 20°C	44.9
Coefficient of expansion, 1/°C @ 20°C	0.000842
Refractive index @ 20°C	1.501
Dielectric constant @ 23°C and 1 kHz	7.13
Electrical conductivity, μmhos/cm @ 25°C	0.007
Heat of formation, 25°C, BTU/lb	-256
Heat of vaporization, BTU/lb, 760 mm Hg	152
Heat of combustion, 25°C, BTU/lb	-14744
pH of 1 wt% solution	11.4
Nitrogen content, wt%	32.5
Amine value, mg KOH/g	1306

Aminoethylpiperazine (AEP)

CAS #000140-31-8, 1-piperazineethaneamine

Product Stewardship

The Dow Chemical Company has a fundamental concern for all who make, distribute, and use our family of ethyleneamine products, and the environment we share. This concern is the basis for our Product Stewardship philosophy, by which we assess all available information on our products and then take appropriate steps to protect employee and public health and the environment. In addition, Dow is committed to implementing the guiding principles and management practices of the chemical industry's Responsible Care[†] initiative, which includes Product Stewardship as one of the Management Practices. As part of our Product Stewardship effort, information such

as Material Safety Data Sheets and literature on DOW ethyleneamines are provided to assist customers in handling our ethyleneamine products in a safe and responsible manner. Additional information available for our ethyleneamine customers in two brochures: "Ethyleneamines" and "Ethyleneamines: Safe Storage and Handling."

NOTE: Consult the current Material Safety Data Sheet for safety and handling guidelines for this product.

[†]Service mark of The American Chemistry Council

**The Dow Chemical Company
Midland, Michigan 48674 U.S.A.**

In the United States And Canada: 1-800-447-4369; Fax 1-989-832-1465

In Europe: Toll free phone +800 3 694 6367*; Telephone +32 3 450 2240; Fax: + 32 3 450 2815

In The Pacific: +852 2879 7260; Fax +852 2827 5881

In Other Global Areas: 1-989-832-1556; Fax: 1-989-832-1465

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