

Aminoethylethanolamine (AEEA)

Reactive amino alcohol intermediate for surfactants, chelating agents, fuel additives and coatings.

CAS No. 111-41-1	EC / List No. 203-867-5	Transport Class 8 — Corrosive
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Product Information

Aminoethylethanolamine is an ethyleneamine-family intermediate with a primary amine, a secondary amine and a hydroxyl group. The same substance is commonly called N-(2-aminoethyl)ethanolamine. Its formula is C₄H₁₂N₂O and molecular weight is 104.15 g/mol. The amino and alcohol functionality supports subsequent chemical synthesis.

Specifications

Parameter	Specification
Appearance — MOA 200	Clear liquid
Assay — MOQ 553	≥99.6 wt%
Water solubility, reference	Miscible
Ethanol solubility, reference	Soluble
pH, source reference	12; dilution not stated
Melting point, TDS reference	−35 °C
Boiling point, TDS reference	243 °C
Flash point, TDS reference	132 °C
Vapor pressure, source reference	0.012 hPa
Relative vapor density, reference	3.6
Density at 20°C, reference	1.03 g/cm ³
Relative density, TDS reference	1.026
Partition coefficient, reference	−1.46 log Pow
Dynamic viscosity, source reference	141; temperature not stated mPa·s

Assay is the stated supply limit. Physical values are reference data, not additional release limits. Density is expressed in g/cm³ at 20°C; pH and viscosity retain their unspecified test basis. TDS and SDS flash-point sources are distinguished.

Typical Properties

Property	Typical Value
Molecular formula	C ₄ H ₁₂ N ₂ O
Molecular weight	104.15 g/mol

Applications

Surfactant and fabric-softener intermediates: Reactive building block for detergent surfactants and quaternary-ammonium fabric-softener chemistry. Evaluate reaction conditions, impurity limits and compatibility in the intended production process.

Chelating and fuel-additive chemistry: Intermediate for selected chelating agents, corrosion inhibitors and dispersant systems. Match the required amino functionality and solubility to the application before scale-up.

Epoxy hardeners and coatings: Amino alcohol intermediate for selected epoxy curing and coating systems. Assess cure profile, adhesion and formulation stability using a controlled sample evaluation.

Packaging / Storage

Item	Information
Packing	25 kg drums
Storage	Keep tightly closed in a cool, dry, ventilated area protected from light. Restrict access to trained personnel; segregate acids, oxidizers, copper, zinc and nitrite-containing materials.
Handling	Use closed transfer or local extraction. Avoid liquid contact, mist and vapor exposure. Wear suitable chemical-resistant gloves, protective clothing, splash goggles and face protection; provide emergency eyewash and washing facilities.

Company Contact

Supplier	Hainan Zhongxin Chemical Co., Ltd. (ZXCHEM)
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