

Cyclohexylamine

Primary cycloaliphatic amine for corrosion inhibitors, rubber chemicals, surfactants and specialty synthesis.

CAS No. 108-91-8	EC / List No. 203-629-0	Transport Class 8 — Corrosive (subsidiary Class 3)
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Product Information

Cyclohexylamine, also known as aminocyclohexane, is a primary cycloaliphatic amine with molecular formula C₆H₁₃N. It serves as a reactive building block for cyclohexyl-containing chemicals and as a formulation component in selected corrosion-control systems. This is industrial raw material rather than a finished formulated inhibitor.

Specifications

Parameter	Specification
Appearance at 20°C	Colorless to yellow liquid
Cyclohexylamine	≥99.5 %
Dicyclohexylamine	≤0.05 %
Aniline	≤0.05 %
Cyclohexanol	≤0.1 %
Cyclohexane	≤0.1 %
High-boiling residues	≤0.1 %
Water	≤0.15 %
Chromaticity	≤20 Hazen

Technical limits and packaging follow the matching local 2026 ZXCHEM TDS. Manufacturer physical-property references in the SDS are separate from supply acceptance limits.

Typical Properties

Property	Typical Value
Molecular formula	C ₆ H ₁₃ N
Molecular weight	99.18 g/mol

Applications

Rubber-chemical intermediates: Primary amine building block for selected rubber accelerators and specialty derivatives. Match aniline, secondary-amine and water limits to the intended reaction and downstream purification.

Corrosion-control formulations: Amine component for selected industrial water and steam-condensate corrosion-control formulations. Evaluate process pH, volatility and compatibility with the complete treatment program.

Surfactants and specialty synthesis: Reactive intermediate for surface-active compounds, agrochemical intermediates and other cyclohexyl derivatives. Verify reaction compatibility and impurity requirements for each production route.

Packaging / Storage

Item	Information
Packing	190 kg drums; 175 / 170 kg drums, IBC and ISO tank options
Storage	Store tightly closed in a cool, dry, well-ventilated corrosives area, away from heat, sparks and flames. Segregate acids and oxidizers and keep access restricted.
Handling	Use closed transfer and effective ventilation. Wear chemical-resistant gloves, goggles, face protection and suitable clothing. Control ignition and static discharge during liquid transfer; avoid amine vapor, splashes and skin contact.

Company Contact

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