

2-Mercaptoethanol

Thiol-functional industrial intermediate and reducing agent for specialty chemical and polymer manufacture.

CAS No. 60-24-2	EC / List No. 200-464-6	Transport Class 6.1 — Toxic
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Product Information

2-Mercaptoethanol is an organosulfur compound with formula C₂H₆OS and molecular weight 78.13 g/mol. Its thiol and hydroxyl groups provide useful reactivity in chemical synthesis. The supplied liquid may be colorless to pale yellow and has a pronounced characteristic odor.

Specifications

Parameter	Specification
Appearance	Colorless to pale yellow liquid
Assay	≥99 %
Moisture	≤0.50 %
Density, reference	1.12 g/cm ³
Melting point, reference	−50.0 °C
Boiling range, reference	154–161 °C
Flash point, TDS reference	68.0 °C
Ignition temperature, reference	295 °C

Assay and moisture are supply limits. Physical values are transcribed from the matching legacy ZXCHEM TDS; SDS flash-point values use their identified manufacturer reference and test basis.

Typical Properties

Property	Typical Value
Molecular formula	C ₂ H ₆ OS
Molecular weight	78.13 g/mol

Applications

PVC stabilizer intermediates: Chemical building block for organotin and thiol-based stabilizer manufacture. Select the required purity and reaction conditions for the intended PVC stabilizer system.

Polymer and specialty chemical synthesis: Thiol-functional intermediate or chain-transfer ingredient for selected polymer processes. Evaluate molecular-weight control, compatibility and final-product requirements in the specific reaction.

Industrial corrosion-control development: Ingredient for selected reducing and corrosion-control systems. Validate metal compatibility and performance in the intended industrial process; control toxic liquid exposure throughout evaluation.

Packaging / Storage

Item	Information
Packing	200 kg drums
Storage	Store tightly sealed in a cool, dry, ventilated toxic-chemical area. Protect from ignition, heat and incompatible oxidizers, acids and strong bases. Limit access to trained personnel.
Handling	Use enclosed transfer or local extraction. Prevent all skin contact, mist and vapor exposure. Wear suitable chemical-resistant gloves, protective clothing, splash goggles and face protection; maintain emergency washing facilities.

Company Contact

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