

Safety (MSDS) data for ethanolamine



General

Synonyms: 2-aminoethanol, monoethanolamine, beta-aminoethanol, beta-aminoethyl alcohol, ethylolamine, glycinol, olamine, MEA, UASF EK-1597, colamine, beta-hydroxyethylamine

Molecular formula: C_2H_7NO

Structural formula: $H_2N(CH_2)_2OH$

CAS No: 141-43-5

EINECS No: 205-483-3

Physical data

Appearance: colourless liquid with an odour of ammonia

Melting point: 10 - 12 C

Boiling point: 170 C

Vapour density: 2.1 (air = 1)

Vapour pressure: 0.2 mm Hg at 20 C

Density ($g\ cm^{-3}$): 1.01

Flash point: 85 C (closed cup)

Explosion limits:

Autoignition temperature:

Water solubility: soluble in all proportions

Stability

Stable. Flammable; incompatible with strong oxidizing agents, strong acids. [Hygroscopic](#).

Toxicology

Harmful by ingestion, inhalation or if absorbed through skin. Severe eye, skin and respiratory irritant. Corrosive - causes burns. May cause CNS depression. Very destructive of mucous membranes. Typical TLV/TWA 3 ppm. Typical STEL 6 ppm.

Toxicity data

(The meaning of any abbreviations which appear in this section is given [here.](#))

ORL-RAT LD50 2100 mg kg⁻¹

SKN-RAT LD50 1500 mg kg⁻¹

IPR-RAT LD50 981 mg kg⁻¹

IVN-RAT LD50 800 mg kg⁻¹

ORL-MUS LD50 700 mg kg⁻¹

ORL-RBT LD50 1000 mg kg⁻¹

SKN-RBT LD50 1 mg kg⁻¹

Risk phrases

(The meaning of any risk phrases which appear in this section is given [here.](#))

R20 R34 R36 R37 R38.

Transport information

(The meaning of any UN hazard codes which appear in this section is given [here.](#))

UN No 2491. Packing group III. Hazard class 8.0

Personal protection

Safety glasses, gloves, adequate ventilation.

Safety phrases

(The meaning of any safety phrases which appear in this section is given [here.](#))

S26 S27 S36 S37 S39 S45.

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