



>>Entry Name: 2-Aminoethanol, 9CI

Synonym(s): 2-Hydroxyethylamine. Ethanolamine. Monoethanolamine. Colamine

CAS Registry Number: 141-43-5

Related CAS Registry Numbers(s): 96-80-0 20739-39-3

$\text{H}_2\text{NCH}_2\text{CH}_2\text{OH}$

Molecular Formula: $\text{C}_2\text{H}_7\text{NO}$

Molecular Weight: 61.083

Accurate Mass: 61.052764

Percentage Composition: C 39.33%; H 11.55%; N 22.93%; O 26.19%

Biological Source: Widely distributed in biol. tissues. Component of lecithin. Manuf. from ethylene oxide and NH_3 . Constit. of defence secretions of *Chrysolinina* beetles

Use/Importance: Chemical intermed., org. base. Removes CO_2 and H_2S from gases. Reagent for fluorimetric anal. of carbohydrates by hplc. Selectively cleaves the glycosyl ester bond of peracylated aldoses. Curing agent for epoxy resins

Physical Description: Viscous, hygroscopic liq.

Melting Point: Mp 10.5°

Boiling Point: Bp 171°

Solubility: Misc. H_2O , MeOH, Me_2CO ; spar. sol. C_6H_6 , Et_2O

Density: d_4^{25} 1.012

pKa Value: $\text{p}K_a$ 9.47

Refractive Index: n_D^{20} 1.4539

Other Data: Vp 0.48 mmHg (20°)

Hazard & Toxicity: Fl. p. 85° , autoignition temp. 410° . Corrosive and irritating to skin, eyes and mucous membranes. LD_{50} (rat, orl) 1720 mg/kg. Exp. teratogen. OES: long-term 3 ppm; short-term 6 ppm

Aldrich: 11016-7

Fluka: 2410

Sigma: A5629

>>Derivative: Hydrofluoride

Physical Description: Cryst. (EtOH)

Melting Point: Mp $35\text{-}37^\circ$

>>Derivative: Hydrochloride

CAS Registry Number: 2002-24-6

Physical Description: Hygroscopic cryst. (EtOH)

Melting Point: Mp $84\text{-}86^\circ$

Aldrich: 23638-1

Fluka: 2415

Sigma: E6133

>>Derivative: Octadecanoate salt

Synonym(s): Monoethanolamine oleate, INN

CAS Registry Number: 2272-11-9

Biological Use/Importance: Sclerosing agent. Pharmaceutic aid (surfactant)

Hazard & Toxicity: Skin and mucous membrane irritant

>>Derivative: Picrate

Physical Description: Yellow cryst.

Melting Point: Mp $148\text{-}150^\circ$