



>>Entry Name: 2-[(2-Aminoethyl)amino]ethanol, 9CI

Synonym(s): *N*-β-Hydroxyethylethylenediamine. *N*-Aminoethylethanolamine

CAS Registry Number: 111-41-1

H2NCH2CH2NHCH2CH2OH

Molecular Formula: C4H12N2O

Molecular Weight: 104.152

Accurate Mass: 104.094963

Percentage Composition: C 46.13%; H 11.61%; N 26.90%; O 15.36%

Boiling Point: Bp 238-240°. Bp 243°. Bp₁₀ 103.7°

Solubility: Misc. H₂O, EtOH; spar. sol. Et₂O

Hazard & Toxicity: Fl. p. 129°, autoignition temp. 365/368°. Severe eye, moderate skin irritant. LD₅₀ (rat, orl) 3000 mg/kg

Aldrich: 12758-2

Fluka: 54210

Sigma: H5012

>>Derivative: Hydrochloride (1:2)

CAS Registry Number: 25352-31-2

Melting Point: Mp 195.7-196.4°

>>Derivative: Picrate

Melting Point: Mp 198.5-200.5 dec.°

>>Derivative: *N,N*-Di-Et

Synonym(s): 2-[[2-(Diethylamino)ethyl]amino]ethanol, 9CI

CAS Registry Number: 51254-17-2

Molecular Formula: C8H20N2O

Molecular Weight: 160.259

Accurate Mass: 160.157563

Percentage Composition: C 59.96%; H 12.58%; N 17.48%; O 9.98%

Boiling Point: Bp 240-243°

Rare Chemicals Library: S38862-9

Other: PB D20260

>>Derivative: *N,N,N'*-Tri-Me

Synonym(s): 2-[[2-(Dimethylamino)ethyl]methylamino]ethanol, 9CI

CAS Registry Number: 2212-32-0

Molecular Formula: C7H18N2O

Molecular Weight: 146.232

Accurate Mass: 146.141913

Percentage Composition: C 57.50%; H 12.41%; N 19.16%; O 10.94%

Boiling Point: Bp 207°. Bp₁₀ 84°

Density: d 0.9

Refractive Index: n_D²⁰ 1.4539

>>Derivative: *N,N,N'*-Tri-Me, hydrochloride (2:1)

Physical Description: Cryst. (EtOH/Et₂O)

Melting Point: Mp 199-201° (dec.)

>>Derivative: *N,N,N'*-Tri-Me, *O*-Ac

Molecular Formula: C9H20N2O2

Molecular Weight: 188.269

Accurate Mass: 188.152478

Percentage Composition: C 57.42%; H 10.71%; N 14.88%; O 17.00%

Boiling Point: Bp₁₀ 102°

References: