



>>Entry Name: Diethylaminoacetic acid

Synonym(s): *N,N*-Diethylglycine, 9CI

CAS Registry Number: 1606-01-5

Et₂NCH₂COOH

Molecular Formula: C₆H₁₃NO₂

Molecular Weight: 131.174

Accurate Mass: 131.094629

Percentage Composition: C 54.94%; H 9.99%; N 10.68%; O 24.39%

Physical Description: Needles (C₆H₆)

Melting Point: Mp 135°

pKa Value: p*K*_{a1} 2.04; p*K*_{a2} 10.47 (25°, 0.1*M* KCl)

Other Data: Volatilises on heating. Steam-volatile

>>Derivative: Me ester

CAS Registry Number: 30280-35-4

Molecular Formula: C₇H₁₅NO₂

Molecular Weight: 145.201

Accurate Mass: 145.110279

Percentage Composition: C 57.90%; H 10.41%; N 9.65%; O 22.04%

Physical Description: Needles (EtOH)

Melting Point: Mp 192° (126-127°)

>>Derivative: Et ester

Molecular Formula: C₈H₁₇NO₂

Molecular Weight: 159.228

Accurate Mass: 159.125929

Percentage Composition: C 60.35%; H 10.76%; N 8.80%; O 20.10%

Boiling Point: Bp 163.5°. Bp₅₇ 84.5-85.5°

>>Derivative: Benzyl ester

Molecular Formula: C₁₃H₁₉NO₂

Molecular Weight: 221.299

Accurate Mass: 221.141579

Percentage Composition: C 70.56%; H 8.65%; N 6.33%; O 14.46%

Boiling Point: Bp 177°. Bp₂₀ 76°

>>Derivative: Amide

Molecular Formula: C₆H₁₄N₂O

Molecular Weight: 130.189

Accurate Mass: 130.110613

Percentage Composition: C 55.35%; H 10.84%; N 21.52%; O 12.29%

Physical Description: Needles (EtOAc)

Melting Point: Mp 77°

>>Derivative: Hydrazide

Molecular Formula: C₆H₁₅N₃O

Molecular Weight: 145.204

Accurate Mass: 145.121512

Percentage Composition: C 49.63%; H 10.41%; N 28.94%; O 11.02%

Boiling Point: Bp₂ 105°

>>Derivative: Nitrile

Synonym(s): Diethylaminoacetonitrile. Cyanodiethylaminomethane

CAS Registry Number: 3010-02-4

Molecular Formula: C₆H₁₂N₂

Molecular Weight: 112.174

Accurate Mass: 112.100048

Percentage Composition: C 64.24%; H 10.78%; N 24.97%

Boiling Point: Bp 170°. Bp₂₄ 70°