



>>Entry Name: *N,N*-Dimethylglycine, 9CI

Synonym(s): Dimethylaminoacetic acid. Dimethylamine-*N*-acetic acid

CAS Registry Number: 1118-68-9

Related CAS Registry Numbers(s): 60853-81-8

Me₂NCH₂COOH

Molecular Formula: C₄H₉NO₂

Molecular Weight: 103.121

Accurate Mass: 103.063329

Percentage Composition: C 46.59%; H 8.80%; N 13.58%; O 31.03%

Physical Description: Hygroscopic cryst.

Melting Point: Mp 183°. Mp 179-181°

pKa Value: pK_a 9.88 (25°)

Aldrich: 29223-0

Fluka: 40360

Sigma: D1156

>>Derivative: Hydrochloride

CAS Registry Number: 2491-06-7

Physical Description: Cryst. (Me₂CO/butanol)

Melting Point: Mp 189-190°

Aldrich: 21960-6

Fluka: 40380

Sigma: D6382

>>Derivative: Me ester

CAS Registry Number: 7148-06-3

Molecular Formula: C₅H₁₁NO₂

Molecular Weight: 117.147

Accurate Mass: 117.078979

Percentage Composition: C 51.26%; H 9.46%; N 11.96%; O 27.31%

Physical Description: Liq.

Boiling Point: Bp 135°. Bp₃₀ 51°

>>Derivative: Et ester

CAS Registry Number: 33229-89-9

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: Liq.

Boiling Point: Bp 150°. Bp₁₂ 48-49°

Aldrich: 28439-4

Fluka: 40370

Sigma: D1776

>>Derivative: Et ester; hydrochloride

Melting Point: Mp 88-90°

Other Data: Extremely deliquescent

>>Derivative: Benzyl ester

Molecular Formula: C₁₁H₁₅NO₂

Molecular Weight: 193.245

Accurate Mass: 193.110279

Percentage Composition: C 68.37%; H 7.82%; N 7.25%; O 16.56%

Melting Point: Mp 116° (as hydrochloride)