



>>Entry Name: *N*-Ethylglycine, 9Cl

Synonym(s): Ethylaminoacetic acid

CAS Registry Number: 627-01-0

EtNHCH₂COOH

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: Plates (EtOH)

Melting Point: Mp 180-182 dec.°

pKa Value: pK_{a1} 2.34; pK_{a2} 10.23 (25°)

Aldrich: 46521-6

>>Derivative: Hydrochloride

Physical Description: Plates

Melting Point: Mp 180°

>>Derivative: Et ester

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%

Boiling Point: Bp₁₃ 44-46°

>>Derivative: Et ester; hydrochloride

Melting Point: Mp 144°

>>Derivative: Nitrile

Synonym(s): Ethylaminoacetonitrile

Molecular Formula: C₄H₈N₂

Molecular Weight: 84.121

Accurate Mass: 84.068748

Percentage Composition: C 57.11%; H 9.59%; N 33.30%

Boiling Point: Bp 166-167°. Bp₂₉ 81-83°

>>Derivative: *N*-Me, Me ester

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%

Boiling Point: Bp 151-152°

>>Derivative: *N*-Me, Et ester

CAS Registry Number: 59936-25-3

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%

Boiling Point: Bp 164-165°

>>Derivative: *N*-Me, Et ester; hydrochloride

Melting Point: Mp 132°

References:

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Jones, L.W. *et al.*, *J.A.C.S.*, 1930, **52**, 1082

Cocker, W., *J.C.S.*, 1937, 1693, (*synth*)

Righetti, Y., *Bull. Soc. Chim. Fr.*, 1938, **5**, 1463