



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

Synonym(s): Acetylaminoacetic acid. Aceturic acid. Acetylglycocoll. Acetamidoacetic acid

CAS Registry Number: 543-24-8

AcNHCH₂COOH

Molecular Formula: C₄H₇NO₃

Molecular Weight: 117.104

Accurate Mass: 117.042594

Percentage Composition: C 41.03%; H 6.02%; N 11.96%; O 40.99%

Biological Source: *N*-Acyl substituent in the *O*-antigens of *Shigella dysenteriae* type 7 lipopolysaccharides

Physical Description: Cryst. (H₂O)

Melting Point: Mp 206°

pKa Value: pK_a 3.64 (25°)

Aldrich: A1630-0

Fluka: 1180

Rare Chemicals Library: S11618-1

Sigma: J6393

>>Derivative: Me ester

Molecular Formula: C₅H₉NO₃

Molecular Weight: 131.131

Accurate Mass: 131.058244

Percentage Composition: C 45.80%; H 6.92%; N 10.68%; O 36.60%

Melting Point: Mp 58-59°

Boiling Point: Bp₇₁₂ 254°

>>Derivative: Et ester

CAS Registry Number: 1906-82-7

Molecular Formula: C₆H₁₁NO₃

Molecular Weight: 145.158

Accurate Mass: 145.073894

Percentage Composition: C 49.65%; H 7.64%; N 9.65%; O 33.07%

Physical Description: Leaflets (Et₂O)

Melting Point: Mp 48°

Boiling Point: Bp₇₁₂ 260°. Bp₁₄ 145°

Aldrich: E940-4

>>Derivative: Benzyl ester

Molecular Formula: C₁₁H₁₃NO₃

Molecular Weight: 207.229

Accurate Mass: 207.089544

Percentage Composition: C 63.76%; H 6.32%; N 6.76%; O 23.16%

Melting Point: Mp 51°

Boiling Point: Bp₁ 175-180°

>>Derivative: Amide

Synonym(s): *N*-(2-Amino-2-oxoethyl)acetamide, 9CI. Aceturamide

CAS Registry Number: 2620-63-5

Molecular Formula: C₄H₈N₂O₂

Molecular Weight: 116.119

Accurate Mass: 116.058578

Percentage Composition: C 41.37%; H 6.94%; N 24.12%; O 27.56%

Physical Description: Plates (H₂O)

Melting Point: Mp 137°

Solubility: Sol. H₂O, EtOH, insol. Et₂O

Aldrich: 28021-6