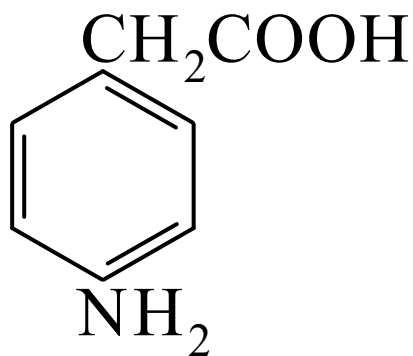




>>Entry Name: (4-Aminophenyl)acetic acid

Synonym(s): 4-Aminobenzeneacetic acid, 9CI



CAS Registry Number: 1197-55-3

Related CAS Registry Numbers(s): 25899-92-7

Molecular Formula: C₈H₉NO₂

Molecular Weight: 151.165

Accurate Mass: 151.063329

Percentage Composition: C 63.57%; H 6.00%; N 9.27%; O 21.17%

Use/Importance: Tuberculostatic, fibrinolysis inhibitor, depresses dental enamel solubility, corrosion inhibitor in steel. Used as chain terminator for high mod. polyamide fibres. Active in radiation damage prevention

Physical Description: Plates (H₂O)

Melting Point: Mp 199-200 dec.°

pKa Value: pK_{a1} 3.6; pK_{a2} 5.26 (20°)

Other Data: Undergoes condensation polym. to give the polyamide

Aldrich: A7135-2

Fluka: 9220

>>Derivative: Et ester

CAS Registry Number: 5438-70-0

Molecular Formula: C₁₀H₁₃NO₂

Molecular Weight: 179.218

Accurate Mass: 179.094629

Percentage Composition: C 67.02%; H 7.31%; N 7.82%; O 17.85%

Use/Importance: Penicillin synth. intermediate

Physical Description: Plates (H₂O)

Melting Point: Mp 51°

>>Derivative: Nitrile

CAS Registry Number: 3544-25-0

Molecular Formula: C₈H₈N₂

Molecular Weight: 132.165

Accurate Mass: 132.068748

Percentage Composition: C 72.70%; H 6.10%; N 21.20%

Physical Description: Leaflets (H₂O)

Melting Point: Mp 46°

Boiling Point: Bp 312°. Bp₁₁ 177°

Aldrich: A4205-0

>>Derivative: Nitrile, *N*-Ac

CAS Registry Number: 25025-06-3

Molecular Formula: C₁₀H₁₀N₂O

Molecular Weight: 174.202

Accurate Mass: 174.079313

Percentage Composition: C 68.95%; H 5.79%; N 16.08%; O 9.18%

Physical Description: Cryst. (H₂O)

Melting Point: Mp 85-87°