



>>Derivative: *N*-Me; hydrochloride

Melting Point: Mp 241 dec.°

Optical Rotation: $[\alpha]_{\text{D}}^{10} -87$ (c, 1.49 in 1M HCl)

>>Derivative: *N*-Ph

Synonym(s): 2-Phenyl-2-(phenylamino)acetic acid. α -Phenylaminobenzeneacetic acid, 9Cl. *N*,2-Diphenylglycine, 8Cl. 2-Anilino-2-phenylacetic acid. α -Phenylphenylglycine

CAS Registry Number: 3684-12-6

Molecular Formula: C₁₄H₁₃NO₂

Molecular Weight: 227.262

Accurate Mass: 227.094629

Percentage Composition: C 73.99%; H 5.77%; N 6.16%; O 14.08%

Melting Point: Mp 188°

Optical Rotation: $[\alpha]_{\text{D}} -117.9$ (Me₂CO)

>>Variant: (*S*)-form

CAS Registry Number: 2935-35-5

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%

Optical Rotation: $[\alpha]_{\text{D}}^{20} +112.6$ (H₂O)

Aldrich: 23764-7

Fluka: 78565

Sigma: A0282

>>Derivative: Me ester

CAS Registry Number: 37760-98-8

Molecular Formula: C₉H₁₁NO₂

Molecular Weight: 165.191

Percentage Composition: C 65.44%; H 6.71%; N 8.48%; O 19.37%

Melting Point: Mp 202° (as hydrochloride)

Other Data: $[M]_{\text{D}} -247^{\circ}$ (H₂O) (hydrochloride)

>>Derivative: Nitrile

Synonym(s): 2-Amino-2-phenylacetonitrile. α -Aminobenzeneacetonitrile, 9Cl. α -Amino- α -cyanotoluene. α -Aminobenzyl cyanide

CAS Registry Number: 48108-77-6

Molecular Formula: C₈H₈N₂

Molecular Weight: 132.165

Accurate Mass: 132.068748

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

Optical Rotation: $[\alpha]_{\text{D}} -160$ (c, 1 in 1M HCl)

>>Derivative: *N*-Ac

CAS Registry Number: 42429-20-9

Molecular Formula: C₁₀H₁₁NO₃

Molecular Weight: 193.202

Accurate Mass: 193.073894

Percentage Composition: C 62.17%; H 5.74%; N 7.25%; O 24.84%

Physical Description: Needles (H₂O)

Melting Point: Mp 191°

Optical Rotation: $[\alpha]_{\text{D}}^{20} +197.4$ (H₂O)

>>Derivative: *N*-tert-Butyloxycarbonyl

CAS Registry Number: 2900-27-8

Molecular Formula: C₁₃H₁₇NO₄

Molecular Weight: 251.282

Accurate Mass: 251.115759

Percentage Composition: C 62.14%; H 6.82%; N 5.57%; O 25.47%

Physical Description: Cryst (EtOAc/petrol)

Melting Point: Mp 99-100°

Optical Rotation: $[\alpha]$