



>>Derivative: *N*-Me; hydrochloride

**Melting Point:** Mp 241 dec.°

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

>>Derivative: *N*-Ph

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

**CAS Registry Number:** 3684-12-6

**Molecular Formula:** C<sub>14</sub>H<sub>13</sub>NO<sub>2</sub>

**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:**  $[\alpha]_{\text{D}} -117.9$  (Me<sub>2</sub>CO)

>>Variant: (*S*)-form

**CAS Registry Number:** 2935-35-5

**Molecular Formula:** C<sub>8</sub>H<sub>9</sub>NO<sub>2</sub>

**Molecular Weight:** 151.165

**Accurate Mass:** 151.063329

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

**Optical Rotation:**  $[\alpha]_{\text{D}}^{20} +112.6$  (H<sub>2</sub>O)

**Aldrich:** 23764-7

**Fluka:** 78565

**Sigma:** A0282

>>Derivative: Me ester

**CAS Registry Number:** 37760-98-8

**Molecular Formula:** C<sub>9</sub>H<sub>11</sub>NO<sub>2</sub>

**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:**  $[M]_{\text{D}} -247^{\circ}$  (H<sub>2</sub>O) (hydrochloride)

>>Derivative: Nitrile

**Synonym(s):** 2-Amino-2-phenylacetonitrile.  $\alpha$ -Aminobenzeneacetonitrile, 9Cl.  $\alpha$ -Amino- $\alpha$ -cyanotoluene.  $\alpha$ -Aminobenzyl cyanide

**CAS Registry Number:** 48108-77-6

**Molecular Formula:** C<sub>8</sub>H<sub>8</sub>N<sub>2</sub>

**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 1*M* HCl)

>>Derivative: *N*-Ac

**CAS Registry Number:** 42429-20-9

**Molecular Formula:** C<sub>10</sub>H<sub>11</sub>NO<sub>3</sub>

**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 (H<sub>2</sub>O)

**Melting Point:** Mp 191°

**Optical Rotation:**  $[\alpha]_{\text{D}}^{20} +197.4$  (H<sub>2</sub>O)

>>Derivative: *N*-tert-Butyloxycarbonyl

**CAS Registry Number:** 2900-27-8

**Molecular Formula:** C<sub>13</sub>H<sub>17</sub>NO<sub>4</sub>

**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:**  $[\alpha]$