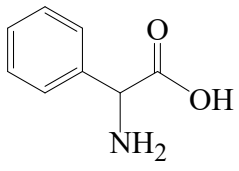
>>**Entry Name: 2-Amino-2-phenylacetic acid**
**Synonym(s):** α-Aminobenzeneacetic acid, 9Cl. 2-Phenylglycine, 8Cl. α-Amino-α-toluic acid



**CAS Registry Number:** 69-91-0
**Related CAS Registry Numbers(s):** 15962-49-9 19883-41-1 25287-52-9 38329-34-9 40647-89-0 45789-64-8 71849-99-5 74641-60-4

**Molecular Formula:** $C_8H_9NO_2$
**Molecular Weight:** 151.165
**Accurate Mass:** 151.063329
**Percentage Composition:** C 63.57%; H 6.00%; N 9.27%; O 21.17%

>>**Variant:** (*R*)-form

**CAS Registry Number:** 875-74-1
**Molecular Formula:** $C_8H_9NO_2$
**Molecular Weight:** 151.165
**Accurate Mass:** 151.063329
**Percentage Composition:** C 63.57%; H 6.00%; N 9.27%; O 21.17%
**Biological Use/Importance:** Precursor of Cefalexin CKX78-Z and penicillins
**Physical Description:** Plates ($H_2O$), needles (EtOH aq.)
**Melting Point:** Mp 305-310°
**Optical Rotation:** $[\alpha]_D^{20}$ –157.8 (dil. HCl)
**Aldrich:** P2548-5
**Fluka:** 78570
**Sigma:** A1255

>>**Derivative:** Hydrochloride

**CAS Registry Number:** 25705-52-6
**Physical Description:** Needles (dil. HCl)
**Melting Point:** Mp 246 dec.°

>>**Derivative:** Me ester

**CAS Registry Number:** 24461-61-8
**Molecular Formula:** $C_9H_{11}NO_2$
**Molecular Weight:** 165.191
**Accurate Mass:** 165.078979
**Percentage Composition:** C 65.44%; H 6.71%; N 8.48%; O 19.37%
**Melting Point:** Mp 189-191° (as hydrochloride)
**Optical Rotation:** $[\alpha]_D^{20}$ –118 (c, 1 in $H_2O$)

>>**Derivative:** Et ester

**CAS Registry Number:** 39251-40-6
**Molecular Formula:** $C_{10}H_{13}NO_2$
**Molecular Weight:** 179.218
**Accurate Mass:** 179.094629
**Percentage Composition:** C 67.02%; H 7.31%; N 7.82%; O 17.85%
**Melting Point:** Mp 203 dec.° (as hydrochloride)

>>**Derivative:** *tert*-Butyl ester

**CAS Registry Number:** 65715-93-7
**Molecular Formula:** $C_{12}H_{17}NO_2$
**Molecular Weight:** 207.272
**Accurate Mass:** 207.125929
**Percentage Composition:** C 69.54%; H 8.27%; N 6.76%; O 15.44%
**Physical Description:** Needles (hexane)
**Melting Point:** Mp 41.5-43°
**Optical Rotation:** $[\alpha]_D^{25}$ –108 (c, 1.61 in $CHCl_3$)