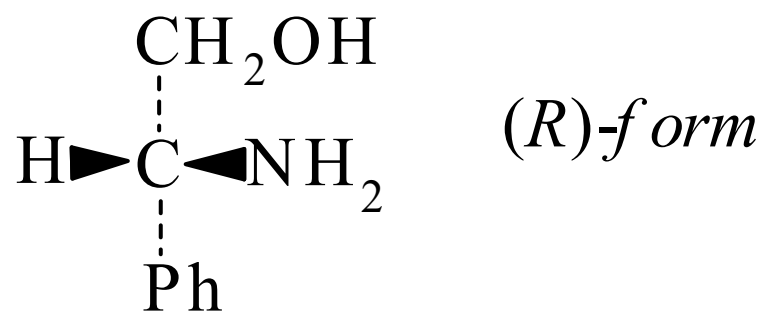




>>Entry Name: 2-Amino-2-phenylethanol

Synonym(s): β -Aminobenzeneethanol, 9Cl. 2-Hydroxy-1-phenylethylamine. Phenylglycinol



CAS Registry Number: 7568-92-5

Molecular Formula: $\text{C}_8\text{H}_{11}\text{NO}$

Molecular Weight: 137.181

Accurate Mass: 137.084064

Percentage Composition: C 70.04%; H 8.08%; N 10.21%; O 11.66%

>>Variant: (R)-form

CAS Registry Number: 56613-80-0

Molecular Formula: $\text{C}_8\text{H}_{11}\text{NO}$

Molecular Weight: 137.181

Accurate Mass: 137.084064

Percentage Composition: C 70.04%; H 8.08%; N 10.21%; O 11.66%

Use/Importance: Used in the enantioselective synthesis of α -amino acids. Good chiral auxiliary, readily available

Melting Point: Mp 78-79°

Boiling Point: Bp₂ 121-121.5°

Optical Rotation: $[\alpha]_{\text{D}}^{17} -25.4$ (c, 9.04 in MeOH)

Aldrich: 19035-7

Fluka: 78590

Sigma: P4891

>>Derivative: Hydrochloride

CAS Registry Number: 85711-12-2

Melting Point: Mp 170-171°

Optical Rotation: $[\alpha]_{\text{D}}^{15} -25.6$ (c, 8.91 in H₂O)

>>Derivative: N-Benzyl

CAS Registry Number: 14231-57-3

Molecular Formula: $\text{C}_{15}\text{H}_{17}\text{NO}$

Molecular Weight: 227.305

Accurate Mass: 227.131014

Percentage Composition: C 79.26%; H 7.54%; N 6.16%; O 7.04%

Physical Description: Needles (Et₂O)

Melting Point: Mp 88°

Optical Rotation: $[\alpha]_{\text{D}}^{25} -82.5$ (c, 1 in CHCl₃)

>>Derivative: Me ether

Synonym(s): α -(Methoxymethyl)benzenemethanamine. 2-Methoxy-1-phenylethylamine

CAS Registry Number: 64715-85-1

Molecular Formula: $\text{C}_9\text{H}_{13}\text{NO}$

Molecular Weight: 151.208

Accurate Mass: 151.099714

Percentage Composition: C 71.49%; H 8.67%; N 9.26%; O 10.58%

Physical Description: Oil

Boiling Point: Bp_{0.2} 47-50°

Optical Rotation: $[\alpha]_{\text{D}}^{25} -49$ (c, 6.3 in C₆H₆)