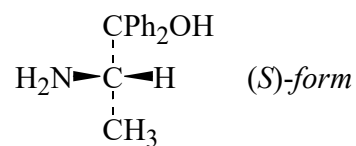




>>Entry Name: 2-Amino-1,1-diphenyl-1-propanol

Synonym(s): α -(1-Aminoethyl)- α -phenylbenzenemethanol, 9CI



CAS Registry Number: 57728-35-5

Related CAS Registry Numbers(s): 78603-93-7

Molecular Formula: C₁₅H₁₇NO

Molecular Weight: 227.305

Accurate Mass: 227.131014

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

>>Variant: (S)-form

CAS Registry Number: 78603-91-5

Molecular Formula: C₁₅H₁₇NO

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 (EtOH)

Melting Point: Mp 100-102°

Optical Rotation: $[\alpha]_{\text{D}}^{22} -85$ (c, 1 in CHCl₃) (100% ee)

Aldrich: 38238-8

>>Variant: (±)-form

CAS Registry Number: 161594-97-4

Molecular Formula: C₁₅H₁₇NO

Molecular Weight: 227.305

Accurate Mass: 227.131014

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

Physical Description: Powder

Melting Point: Mp 103-104° (94-98°)

>>Derivative: Hydrochloride

Physical Description: Needles (EtOH)

Melting Point: Mp 246-247°

References:

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Cai, L. *et al.*, *Tetrahedron: Asymmetry*, 1981, **10**, 411-427, (*S*-form, *synth*, *nmr*)

Itsuno, S. *et al.*, *J.C.S. Perkin 1*, 1985, 2039-2044, (*S*-form, *synth*)

Jockel, H. *et al.*, *J.C.S. Perkin 2*, 2000, 69-76, (*S*-form, *synth*, *pmr*, *cmr*)