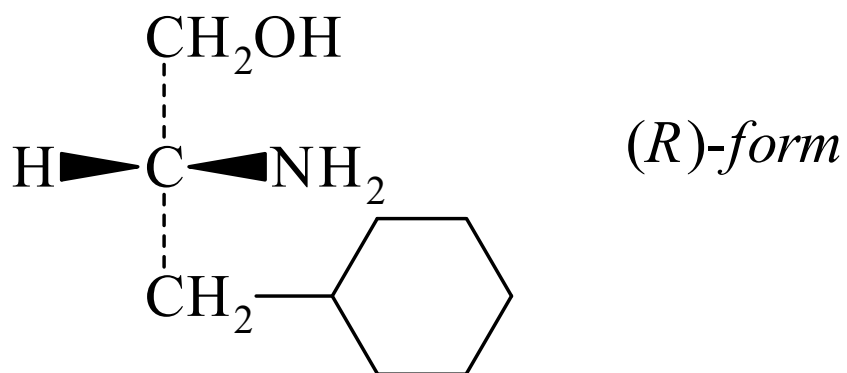




>>Entry Name: 2-Amino-3-cyclohexyl-1-propanol

Synonym(s): β -Aminocyclohexanepropanol, 9Cl. Cyclohexylalaninol



CAS Registry Number: 103808-94-2

Related CAS Registry Numbers(s): 82867-37-6 131288-67-0

Molecular Formula: $C_9H_{19}NO$

Molecular Weight: 157.255

Accurate Mass: 157.146664

Percentage Composition: C 68.74%; H 12.18%; N 8.91%; O 10.17%

>>Variant: (*R*)-form

Molecular Formula: $C_9H_{19}NO$

Molecular Weight: 157.255

Accurate Mass: 157.146664

Percentage Composition: C 68.74%; H 12.18%; N 8.91%; O 10.17%

Physical Description: Cryst. (EtOH/EtOAc) (as hydrochloride)

Melting Point: Mp 152-154° (hydrochloride)

Optical Rotation: $[\alpha]_D^{20} -2.24$ (c, 2.99 in H_2O)

>>Variant: (*S*)-form

Synonym(s): L-form

CAS Registry Number: 117160-99-3

Molecular Formula: $C_9H_{19}NO$

Molecular Weight: 157.255

Accurate Mass: 157.146664

Percentage Composition: C 68.74%; H 12.18%; N 8.91%; O 10.17%

Use/Importance: Chiral building block

Melting Point: Mp 151-154° (as hydrochloride). Mp 230 dec.° (hydrochloride)

Optical Rotation: $[\alpha]_D^{21} +2.05$ (c, 4.87 in H_2O)

Other Data: CAS no. refers to hydrochloride

Aldrich: 43226-1

Fluka: 7624

Sigma: A7081

>>Derivative: *N*-tert-Butyloxycarbonyl

Molecular Formula: $C_{14}H_{27}NO_3$

Molecular Weight: 257.372

Accurate Mass: 257.199094

Percentage Composition: C 65.33%; H 10.57%; N 5.44%; O 18.65%

Physical Description: Thick oil

References:

Grunewald, G.L. *et al.*, *J. Med. Chem.*, 1982, **25**, 1248, (*synth*)

Krysan, D.J. *et al.*, *Org. Prep. Proced. Int.*, 1993, **25**, 437