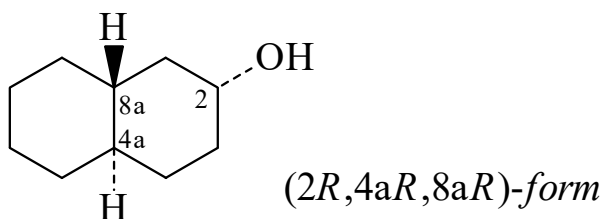




>>Entry Name: Decahydro-2-naphthol

Synonym(s): Decahydro-2-naphthalenol, 9CI. Perhydro-2-naphthol. β -Decalol. 2-Hydroxydecahydronaphthalene



CAS Registry Number: 825-51-4

Molecular Formula: $C_{10}H_{18}O$

Molecular Weight: 154.252

Accurate Mass: 154.135765

Percentage Composition: C 77.87%; H 11.76%; O 10.37%

Hazard & Toxicity: Moderate skin irritant

Aldrich: W50710-5

Fluka: 30512

Rare Chemicals Library: S76451-5

>>Variant: (2R,4aR,8aR)-form

Synonym(s): (+)-trans,cis-form

Molecular Formula: $C_{10}H_{18}O$

Molecular Weight: 154.252

Accurate Mass: 154.135765

Percentage Composition: C 77.87%; H 11.76%; O 10.37%

Melting Point: Mp 72°

Optical Rotation: $[\alpha]_D^{23} +1.35$ (c, 2.6 in EtOH). $[\alpha]_D^{21} +1$ (c, 1.8 in $CHCl_3$)

>>Variant: (2S,4aS,8aS)-form

Synonym(s): (–)-trans,cis-form

Molecular Formula: $C_{10}H_{18}O$

Molecular Weight: 154.252

Accurate Mass: 154.135765

Percentage Composition: C 77.87%; H 11.76%; O 10.37%

Melting Point: Mp 71-72°

Optical Rotation: $[\alpha]_D^{23} -1.35$ (c, 2.6 in EtOH). $[\alpha]_D^{16} -2.7$ (cyclohexene)

>>Variant: (2R*,4aR*,8aS*)-form

Synonym(s): (+)-cis,trans-form

Molecular Formula: $C_{10}H_{18}O$

Molecular Weight: 154.252

Accurate Mass: 154.135765

Percentage Composition: C 77.87%; H 11.76%; O 10.37%

Melting Point: Mp 38°

Optical Rotation: $[\alpha]_D^{21} +12.5$ (EtOH). $[\alpha]_D^{21} +3.9$ (C_6H_6)

>>Variant: (2S*,4aS*,8aR*)-form

Synonym(s): (–)-cis,trans-form

Molecular Formula: $C_{10}H_{18}O$

Molecular Weight: 154.252

Accurate Mass: 154.135765

Percentage Composition: C 77.87%; H 11.76%; O 10.37%

Melting Point: Mp 38°

Optical Rotation: $[\alpha]_D^{22} -12.4$ (EtOH)