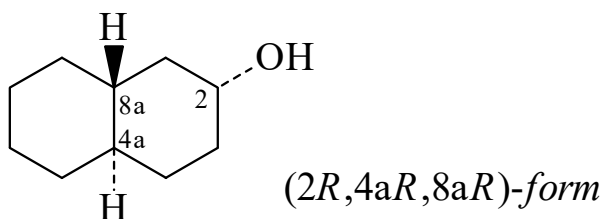




>>Entry Name: Decahydro-2-naphthol

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



CAS Registry Number: 825-51-4

Molecular Formula: C₁₀H₁₈O

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

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

Molecular Formula: C₁₀H₁₈O

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: $[\alpha]_{\text{D}}^{23} +1.35$ (c, 2.6 in EtOH). $[\alpha]_{\text{D}}^{21} +1$ (c, 1.8 in CHCl₃)

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

Synonym(s): (–)-*trans*,*cis*-form

Molecular Formula: C₁₀H₁₈O

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: $[\alpha]_{\text{D}}^{23} -1.35$ (c, 2.6 in EtOH). $[\alpha]_{\text{D}}^{16} -2.7$ (cyclohexene)

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

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

Molecular Formula: C₁₀H₁₈O

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: $[\alpha]_{\text{D}}^{21} +12.5$ (EtOH). $[\alpha]_{\text{D}}^{21} +3.9$ (C₆H₆)

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

Synonym(s): (–)-*cis*,*trans*-form

Molecular Formula: C₁₀H₁₈O

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: $[\alpha]_{\text{D}}^{22} -12.4$ (EtOH)