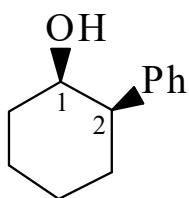




>>Entry Name: 2-Phenylcyclohexanol



(1*R*,2*R*)-form

CAS Registry Number: 1444-64-0

Related CAS Registry Numbers(s): 2362-61-0 16201-63-1

Molecular Formula: C₁₂H₁₆O

Molecular Weight: 176.258

Accurate Mass: 176.120115

Percentage Composition: C 81.77%; H 9.15%; O 9.08%

Hazard & Toxicity: Can cause dermatitis

Rare Chemicals Library: S45676-4

>>Variant: (1*R*,2*R*)-form

Synonym(s): (–)-*cis*-form

CAS Registry Number: 37982-27-7

Molecular Formula: C₁₂H₁₆O

Molecular Weight: 176.258

Accurate Mass: 176.120115

Percentage Composition: C 81.77%; H 9.15%; O 9.08%

Melting Point: Mp 32-33°

Optical Rotation: $[\alpha]_{\text{D}}^{27} -106$ (c, 0.2 in MeOH)

>>Derivative: Acid phthalate

Melting Point: Mp 128.5-130°

>>Variant: (1*S*,2*R*)-form

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

CAS Registry Number: 34281-92-0

Molecular Formula: C₁₂H₁₆O

Molecular Weight: 176.258

Accurate Mass: 176.120115

Percentage Composition: C 81.77%; H 9.15%; O 9.08%

Use/Importance: Chiral auxiliary

Physical Description: Cryst. (petrol)

Melting Point: Mp 64-65°

Optical Rotation: $[\alpha]_{\text{D}}^{27} +55$ (c, 0.1 in MeOH)

Aldrich: 36725-7

Fluka: 78323

>>Derivative: Acid phthalate

Melting Point: Mp 185-186°

>>Variant: (1*R**S*,2*R**S*)-form

Synonym(s): (±)-*cis*-form

CAS Registry Number: 40960-73-4

Molecular Formula: C₁₂H₁₆O

Molecular Weight: 176.258

Accurate Mass: 176.120115

Percentage Composition: C 81.77%; H 9.15%; O 9.08%

Melting Point: Mp 40-41°

Boiling Point: Bp_{12.5} 136-138°