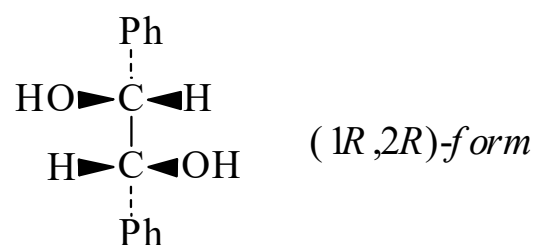




>>Entry Name: 1,2-Diphenyl-1,2-ethanediol, 9CI

Synonym(s): α,β -Dihydroxybibenzyl. Diphenylethylene glycol. Hydrobenzoin. α,α' -Bi(benzyl alcohol)



CAS Registry Number: 492-70-6

Related CAS Registry Numbers(s): 2325-10-2 38270-73-4 42746-79-2 52340-78-0 58176-63-9 63435-67-6 66749-68-6 67650-45-7

Molecular Formula: $C_{14}H_{14}O_2$

Molecular Weight: 214.263

Accurate Mass: 214.09938

Percentage Composition: C 78.48%; H 6.59%; O 14.93%

Aldrich: 30142-6

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

CAS Registry Number: 52340-78-0

Molecular Formula: $C_{14}H_{14}O_2$

Molecular Weight: 214.263

Accurate Mass: 214.09938

Percentage Composition: C 78.48%; H 6.59%; O 14.93%

Physical Description: Needles (H_2O)

Melting Point: Mp 149-150°

Optical Rotation: $[\alpha]_D +92$ (EtOH)

Aldrich: 25627-7

Fluka: 53945

Sigma: H5888

>>Derivative: Di-Me ether

CAS Registry Number: 62860-43-9

Molecular Formula: $C_{16}H_{18}O_2$

Molecular Weight: 242.317

Accurate Mass: 242.13068

Percentage Composition: C 79.31%; H 7.49%; O 13.21%

Use/Importance: Catalyses and controls enantioselectivity of the conjugate addn. of alkyl-Li to α,β -unsaturated aldimines

Physical Description: Prisms (hexane)

Melting Point: Mp 99-100°

Optical Rotation: $[\alpha]_D^{25} -15.2$ (c, 1.22 in $CHCl_3$)

>>Derivative: O-Isopropylidene

Synonym(s): 2,2-Dimethyl-4,5-diphenyl-1,3-dioxolane

Molecular Formula: $C_{17}H_{18}O_2$

Molecular Weight: 254.328

Accurate Mass: 254.13068

Percentage Composition: C 80.28%; H 7.13%; O 12.58%

Physical Description: Prisms (Et_2O)

Melting Point: Mp 48°

Optical Rotation: $[\alpha]_D +65.2$ (EtOH)