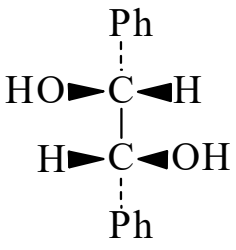
>>**Entry Name: 1,2-Diphenyl-1,2-ethanediol,** 9CI

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



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

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