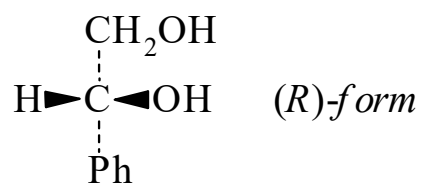




>>Entry Name: 1-Phenyl-1,2-ethanediol, 9CI, 8CI

Synonym(s): α,β -Dihydroxyethylbenzene. Styrene glycol. Phenylethylene glycol



CAS Registry Number: 93-56-1

Related CAS Registry Numbers(s): 10522-02-8 25496-78-0 115482-82-1 115482-83-2 138877-10-8

Molecular Formula: $\text{C}_8\text{H}_{10}\text{O}_2$

Molecular Weight: 138.166

Accurate Mass: 138.06808

Percentage Composition: C 69.55%; H 7.29%; O 23.16%

Aldrich: P2405-5

>>Variant: (R)-form

CAS Registry Number: 16355-00-3

Molecular Formula: $\text{C}_8\text{H}_{10}\text{O}_2$

Molecular Weight: 138.166

Accurate Mass: 138.06808

Percentage Composition: C 69.55%; H 7.29%; O 23.16%

Melting Point: Mp 65-66°

Optical Rotation: $[\alpha]_{\text{D}}^{25} -47.1$ (Et₂O)

Aldrich: 30216-3

Fluka: 77847

Sigma: P1414

>>Derivative: 2-(4-Methylbenzenesulfonyl)

CAS Registry Number: 40434-87-5

Melting Point: Mp 73-74°

Optical Rotation: $[\alpha]_{\text{D}}^{19} -31.3$ (c, 2 in MeOH)

Other: Kiralchem

>>Derivative: 1-Me ether

CAS Registry Number: 17628-72-7

Molecular Formula: $\text{C}_9\text{H}_{12}\text{O}_2$

Molecular Weight: 152.193

Accurate Mass: 152.08373

Percentage Composition: C 71.03%; H 7.95%; O 21.03%

Boiling Point: Bp_{0.1} 65°

Optical Rotation: $[\alpha]_{\text{D}}^{20} -133$ (c, 1 in Me₂CO). $[\alpha]_{\text{D}} -50.5$ (c, 2.74 in CH₂Cl₂)

Refractive Index: n_D²⁰ 1.5200

Aldrich: 30277-5

Sigma: M5523

Other: Kiralchem

>>Variant: (S)-form

CAS Registry Number: 25779-13-9

Molecular Formula: $\text{C}_8\text{H}_{10}\text{O}_2$

Molecular Weight: 138.166

Accurate Mass: 138.06808

Percentage Composition: C 69.55%; H 7.29%; O 23.16%

Melting Point: Mp 65-66°

Optical Rotation: $[\alpha]_{\text{D}}^{24} +40.7$ (H₂O)

Aldrich: 30215-5

Fluka: 77845

Sigma: P1539