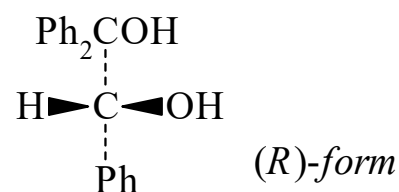




>>Entry Name: 1,1,2-Triphenyl-1,2-ethanediol, 9CI

Synonym(s): Triphenylethyleneglycol



CAS Registry Number: 6296-95-3

Related CAS Registry Numbers(s): 89559-96-6

Molecular Formula:  $\text{C}_{20}\text{H}_{18}\text{O}_2$

Molecular Weight: 290.361

Accurate Mass: 290.13068

Percentage Composition: C 82.73%; H 6.25%; O 11.02%

>>Variant: (*R*)-form

CAS Registry Number: 95061-46-4

Molecular Formula:  $\text{C}_{20}\text{H}_{18}\text{O}_2$

Molecular Weight: 290.361

Accurate Mass: 290.13068

Percentage Composition: C 82.73%; H 6.25%; O 11.02%

Physical Description: Cryst. ( $\text{CH}_2\text{Cl}_2$ )

Melting Point: Mp 128-129° (126°)

Optical Rotation:  $[\alpha]_{\text{D}}^{20} +220$  (c, 1 in 95% EtOH)

Aldrich: 37651-5

Fluka: 92923

>>Derivative: 2-Ac

Synonym(s): (*R*)-HYTRA

CAS Registry Number: 95061-47-5

Molecular Formula:  $\text{C}_{22}\text{H}_{20}\text{O}_3$

Molecular Weight: 332.398

Accurate Mass: 332.141245

Percentage Composition: C 79.50%; H 6.06%; O 14.44%

Use/Importance: Chiral reagent for stereoselective aldol reactions. Used in synth. of  $\beta$ -hydroxycarboxylic acids

Physical Description: Cryst. by subl.

Melting Point: Mp 249-251°

Optical Rotation:  $[\alpha]_{\text{D}}^{20} +218$  (c, 1 in Py)

Aldrich: 37650-7

>>Variant: (*S*)-form

CAS Registry Number: 108998-83-0

Molecular Formula:  $\text{C}_{20}\text{H}_{18}\text{O}_2$

Molecular Weight: 290.361

Accurate Mass: 290.13068

Percentage Composition: C 82.73%; H 6.25%; O 11.02%

Physical Description: Cryst. (MeOH/hexane)

Melting Point: Mp 128°. Mp 241°

Optical Rotation:  $[\alpha]_{\text{D}} -228$  (c, 1.32 in  $\text{CHCl}_3$ )

Aldrich: 36743-5

Fluka: 93030