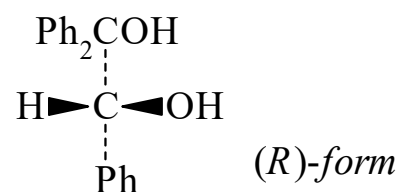




>>Entry Name: 1,1,2-Triphenyl-1,2-ethanediol, 9CI

Synonym(s): Triphenylethyleneglycol



CAS Registry Number: 6296-95-3

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

Molecular Formula: C₂₀H₁₈O₂

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: C₂₀H₁₈O₂

Molecular Weight: 290.361

Accurate Mass: 290.13068

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

Physical Description: Cryst. (CH₂Cl₂)

Melting Point: Mp 128-129° (126°)

Optical Rotation: [α]_D²⁰+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: C₂₂H₂₀O₃

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 β-hydroxycarboxylic acids

Physical Description: Cryst. by subl.

Melting Point: Mp 249-251°

Optical Rotation: [α]_D²⁰+218 (c, 1 in Py)

Aldrich: 37650-7

>>Variant: (*S*)-form

CAS Registry Number: 108998-83-0

Molecular Formula: C₂₀H₁₈O₂

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: [α]_D −228 (c, 1.32 in CHCl₃)

Aldrich: 36743-5

Fluka: 93030