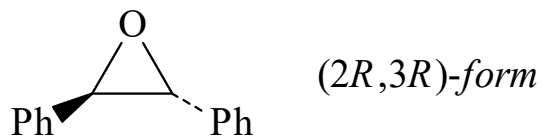




>>Entry Name: **2,3-Diphenyloxirane**, 9CI

Synonym(s): α,α' -Epoxybibenzyl, 8CI. 1,2-Diphenylethylene oxide. 1,2-Diphenyl-1,2-epoxyethane. Stilbene oxide



CAS Registry Number: 17619-97-5

Molecular Formula: C₁₄H₁₂O

Molecular Weight: 196.248

Accurate Mass: 196.088815

Percentage Composition: C 85.68%; H 6.16%; O 8.15%

>>Variant: (2*R*,3*R*)-form

Synonym(s): (+)-*trans*-form

CAS Registry Number: 25144-18-7

Extra CAS Registry Numbers(s): 1439-07-2

Molecular Formula: C₁₄H₁₂O

Molecular Weight: 196.248

Accurate Mass: 196.088815

Percentage Composition: C 85.68%; H 6.16%; O 8.15%

Melting Point: Mp 69-70°

Optical Rotation: $[\alpha]_D +361$ (c, 2.05 in C₆H₆) (> 99% ee)

>>Variant: (2*S*,3*S*)-form

Synonym(s): (–)-*trans*-form

CAS Registry Number: 40102-60-1

Extra CAS Registry Numbers(s): 1439-07-2

Molecular Formula: C₁₄H₁₂O

Molecular Weight: 196.248

Accurate Mass: 196.088815

Percentage Composition: C 85.68%; H 6.16%; O 8.15%

Melting Point: Mp 69-70°

Optical Rotation: $[\alpha]_D^{15} -306$ (c, 1.4 in EtOH)

>>Variant: (2*RS*,3*RS*)-form

Synonym(s): (±)-*trans*-form

CAS Registry Number: 38628-70-5

Extra CAS Registry Numbers(s): 1439-07-2

Molecular Formula: C₁₄H₁₂O

Molecular Weight: 196.248

Accurate Mass: 196.088815

Percentage Composition: C 85.68%; H 6.16%; O 8.15%

Melting Point: Mp 68.6-69.8°

>>Variant: (2*RS*,3*SR*)-form

Synonym(s): *cis*-form

CAS Registry Number: 1689-71-0

Molecular Formula: C₁₄H₁₂O

Molecular Weight: 196.248

Accurate Mass: 196.088815

Percentage Composition: C 85.68%; H 6.16%; O 8.15%

Melting Point: Mp 43°

Aldrich: 30832-3

Fluka: 85871

Sigma: S5771

References: