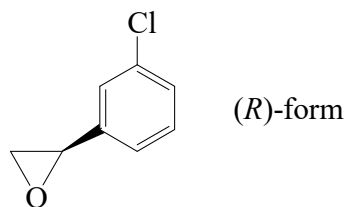




>>Entry Name: (3-Chlorophenyl)oxirane, 9Cl

Synonym(s): 1-Chloro-3-(epoxyethyl)benzene, 8Cl. *m*-Chlorostyrene oxide



CAS Registry Number: 20697-04-5

Molecular Formula: C₈H₇ClO

Molecular Weight: 154.595

Accurate Mass: 154.018542

Percentage Composition: C 62.15%; H 4.56%; Cl 22.93%; O 10.35%

>>Variant: (*R*)-form

CAS Registry Number: 62600-71-9

Molecular Formula: C₈H₇ClO

Molecular Weight: 154.595

Accurate Mass: 154.018542

Percentage Composition: C 62.15%; H 4.56%; Cl 22.93%; O 10.35%

Boiling Point: Bp₁ 67-68°

Optical Rotation: [α]_D²⁰+21 (neat). [α]_D²⁰−11.1 (c, 1.23 in CHCl₃)

Refractive Index: n_D²⁰ 1.5510

Aldrich: 44086-8

Fluka: 26008

Other: Kaneka: H-2

>>Variant: (*S*)-form

CAS Registry Number: 115648-90-3

Molecular Formula: C₈H₇ClO

Molecular Weight: 154.595

Accurate Mass: 154.018542

Percentage Composition: C 62.15%; H 4.56%; Cl 22.93%; O 10.35%

Physical Description: Liq.

Boiling Point: Bp₃ 77-80°

Optical Rotation: [α]_D²⁰+9.4 (c, 1.07 in CHCl₃) (71% ee)

Other: Kaneka: H-3

>>Variant: (±)-form

CAS Registry Number: 53631-04-2

Molecular Formula: C₈H₇ClO

Molecular Weight: 154.595

Accurate Mass: 154.018542

Percentage Composition: C 62.15%; H 4.56%; Cl 22.93%; O 10.35%

Boiling Point: Bp₁₆ 76°. Bp_{0.5} 64-65°

Density: d 1.09

Refractive Index: n_D²⁰ 1.5620

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