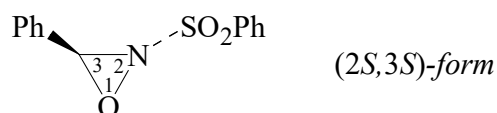




>>Entry Name: 2-Benzenesulfonyl-3-phenyloxaziridine

Synonym(s): 3-Phenyl-2-(phenylsulfonyl)oxaziridine, 9CI



CAS Registry Number: 63160-13-4

Related CAS Registry Numbers(s): 113548-13-3 121054-33-9

Molecular Formula: C₁₃H₁₁NO₃S

Molecular Weight: 261.301

Accurate Mass: 261.045964

Percentage Composition: C 59.76%; H 4.24%; N 5.36%; O 18.37%; S 12.27%

Use/Importance: Oxidising agent

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

Synonym(s): (–)-*trans*-form

CAS Registry Number: 80997-74-6

Molecular Formula: C₁₃H₁₁NO₃S

Molecular Weight: 261.301

Accurate Mass: 261.045964

Percentage Composition: C 59.76%; H 4.24%; N 5.36%; O 18.37%; S 12.27%

Physical Description: Cryst. (Et₂O)

Melting Point: Mp 60-61°

Optical Rotation: [α]_D²⁰ –130.8 (CHCl₃)

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

Synonym(s): (±)-*trans*-form

CAS Registry Number: 69849-45-2

Molecular Formula: C₁₃H₁₁NO₃S

Molecular Weight: 261.301

Accurate Mass: 261.045964

Percentage Composition: C 59.76%; H 4.24%; N 5.36%; O 18.37%; S 12.27%

Physical Description: Cryst. (EtOAc/pentane or EtOAc)

Melting Point: Mp 97° (95-95.5°)

References:

Davis, F.A. *et al.*, *J.A.C.S.*, 1980, **102**, 2000, (*synth, pmr, cmr*)

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Bucciarelli, M. *et al.*, *J.C.S. Perkin 2*, 1988, 1595-1598, (*cryst struct*)

Org. Synth., 1988, **66**, 203-210, (*synth*)