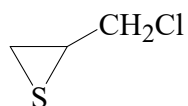




>>Entry Name: (Chloromethyl)thiirane



CAS Registry Number: 3221-15-6

Molecular Formula: C₃H₅ClS

Molecular Weight: 108.591

Accurate Mass: 107.980047

Percentage Composition: C 33.18%; H 4.64%; Cl 32.65%; S 29.53%

>>Variant: (±)-form

Molecular Formula: C₃H₅ClS

Molecular Weight: 108.591

Accurate Mass: 107.980047

Percentage Composition: C 33.18%; H 4.64%; Cl 32.65%; S 29.53%

Physical Description: Oil

Boiling Point: Bp 138-139°. Bp₁₁₄ 79-81°. Bp₁₆ 35.5-36°

Refractive Index: n_D²⁰ 1.5280

>>Derivative: S-Oxide

CAS Registry Number: 29027-25-6

Extra CAS Registry Numbers(s): 24281-05-8

Molecular Formula: C₃H₅ClOS

Molecular Weight: 124.591

Accurate Mass: 123.974962

Percentage Composition: C 28.92%; H 4.04%; Cl 28.46%; O 12.84%; S 25.74%

Physical Description: Cryst.

Melting Point: Mp 20-22°

>>Derivative: S,S-Dioxide

Molecular Formula: C₃H₅ClO₂S

Molecular Weight: 140.59

Accurate Mass: 139.969877

Percentage Composition: C 25.63%; H 3.58%; Cl 25.22%; O 22.76%; S 22.81%

Physical Description: Cryst. (C₆H₆)

Melting Point: Mp 135°

References:

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Sander, M., *Monatsh. Chem.*, 1965, **96**, 896-908, (*synth*)

Etlis, V.S., *Zh. Org. Khim.*, 1965, **1**, 730-735; *J. Org. Chem. USSR (Engl. Transl.)*, 1965, **1**, 731-735, (*synth, oxides*)

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