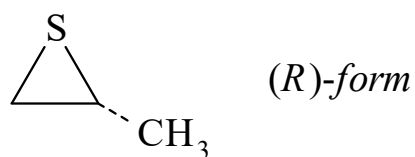




>>Entry Name: 2-Methylthiiran, 9CI

Synonym(s): Propylene sulfide. 1,2-Epithiopropene



CAS Registry Number: 1072-43-1

Molecular Formula: C₃H₆S

Molecular Weight: 74.146

Accurate Mass: 74.01902

Percentage Composition: C 48.60%; H 8.16%; S 43.25%

Hazard & Toxicity: LD₅₀ (rat, orl) 254 mg/kg

Aldrich: P5320-9

Fluka: 82330

>>Variant: (R)-form

CAS Registry Number: 17406-93-8

Molecular Formula: C₃H₆S

Molecular Weight: 74.146

Accurate Mass: 74.01902

Percentage Composition: C 48.60%; H 8.16%; S 43.25%

Optical Rotation: $[\alpha]_{\text{D}}^{25} +32.6$ (neat)

>>Variant: (S)-form

CAS Registry Number: 16606-54-5

Molecular Formula: C₃H₆S

Molecular Weight: 74.146

Accurate Mass: 74.01902

Percentage Composition: C 48.60%; H 8.16%; S 43.25%

Boiling Point: Bp 74°

Optical Rotation: $[\alpha]_{\text{D}}^{25} -50.2$ (neat)

>>Variant: (±)-form

Molecular Formula: C₃H₆S

Molecular Weight: 74.146

Accurate Mass: 74.01902

Percentage Composition: C 48.60%; H 8.16%; S 43.25%

Physical Description: Liq.

Boiling Point: Bp 75-77°

Solubility: Insol. H₂O

Density: d_4^{18} 0.946

Refractive Index: n_{D}^{19} 1.4730

References:

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