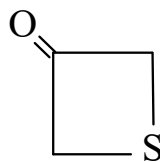




>>Entry Name: 3-Thietanone, 9Cl, 8Cl

Synonym(s): Thiacyclobutan-3-one



CAS Registry Number: 22131-92-6

Molecular Formula: C₃H₄OS

Molecular Weight: 88.13

Accurate Mass: 87.998285

Percentage Composition: C 40.89%; H 4.57%; O 18.15%; S 36.38%

Physical Description: Cryst. (petrol)

Melting Point: Mp 62-63°

>>Derivative: 2,4-Dinitrophenylhydrazone

Melting Point: Mp 175-176°

>>Derivative: Di-Me ketal

Synonym(s): 3,3-Dimethoxythietane

Molecular Formula: C₅H₁₀O₂S

Molecular Weight: 134.199

Accurate Mass: 134.04015

Percentage Composition: C 44.75%; H 7.51%; O 23.84%; S 23.89%

Physical Description: Liq.

Boiling Point: Bp₁₂ 62-63°

>>Derivative: S,S-Dioxide

CAS Registry Number: 1599-23-1

Molecular Formula: C₃H₄O₃S

Molecular Weight: 120.129

Accurate Mass: 119.988115

Percentage Composition: C 30.00%; H 3.36%; O 39.96%; S 26.69%

Physical Description: Cryst. (dioxan)

Melting Point: Mp 219-221 dec.°

Other Data: Sublimes

>>Derivative: S,S-Dioxide, 2,4-dinitrophenylhydrazone

Physical Description: Bright-yellow cryst. (dioxan)

Melting Point: Mp 241 dec.°

>>Derivative: S,S-Dioxide, di-Me ketal

CAS Registry Number: 10099-05-5

Molecular Formula: C₅H₁₀O₄S

Molecular Weight: 166.198

Accurate Mass: 166.02998

Percentage Composition: C 36.13%; H 6.06%; O 38.51%; S 19.29%

Physical Description: Cryst. (EtOAc)

Melting Point: Mp 159.5-160.5°

Other Data: Sublimes

References:

Mayer, R. *et al.*, *Angew. Chem.*, 1961, **73**, 578, (*synth*)

Truce, W.E. *et al.*, *Tet. Lett.*, 1963, 1297, (*synth*)

Kozikowski, A.P. *et al.*, *Synlett*, 1991, 783, (*synth*)