



>>Entry Name: 8-Methyl-8-azabicyclo[3.2.1]octan-3-one, 9Cl

Synonym(s): Tropinone. 3-Tropanone



CAS Registry Number: 532-24-1

Molecular Formula: C₈H₁₃NO

Molecular Weight: 139.197

Accurate Mass: 139.099714

Percentage Composition: C 69.03%; H 9.41%; N 10.06%; O 11.49%

Biological Source: Alkaloid from *Nicandra physaloides* (Solanaceae)

Physical Description: Needles (petrol)

Melting Point: Mp 42°

Boiling Point: Bp₁₃ 103-104°

Other Data: Co-occurs with Hygrine [CGD99-I](#)

Aldrich: T8960-5

Fluka: 93552

Sigma: T3138

>>Derivative: Hydrochloride

CAS Registry Number: 4827-85-4

Melting Point: Mp 188-0 188-189° dec.°

Hazard & Toxicity: LD₅₀ (mus, ipr) 430 mg/kg

>>Derivative: Picrate

Melting Point: Mp 217-218°

>>Derivative: N-Oxide

Molecular Formula: C₈H₁₃NO₂

Molecular Weight: 155.196

Accurate Mass: 155.094629

Percentage Composition: C 61.91%; H 8.44%; N 9.03%; O 20.62%

Melting Point: Mp 217-218°

>>Derivative: Oxime

Molecular Formula: C₈H₁₄N₂O

Molecular Weight: 154.211

Accurate Mass: 154.110613

Percentage Composition: C 62.31%; H 9.15%; N 18.17%; O 10.37%

Melting Point: Mp 114°

Other Data: Chiral, has been resolved

References:

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Robinson, R., *J.C.S.*, 1917, **111**, 706, (synth)
Romeike, A. *et al.*, *Naturwissenschaften*, 1966, **53**, 82, (isol)
Singh, H. *et al.*, *Tet. Lett.*, 1966, 3243; 6502, (resoln, oxime)
Ohashi, M. *et al.*, *Chem. Comm.*, 1971, 34, (pmr)
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Katritzky, A.R. *et al.*, *Org. Magn. Reson.*, 1979, **12**, 357, (cmr, conformn)
Lounasmaa, M., *Alkaloids (N.Y.)*, 1988, **33**, 1, (rev)