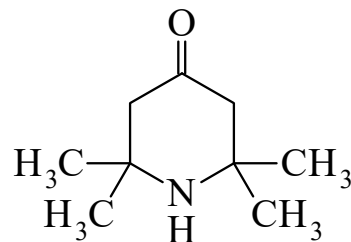




>>Entry Name: 2,2,6,6-Tetramethyl-4-piperidinone, 9Cl

Synonym(s): 4-Oxo-2,2,6,6-tetramethylpiperidine. 2,2,6,6-Tetramethyl- γ -piperidone. Triacetonamine. **Odoratin** $\ddagger$. Vincubine



CAS Registry Number: 826-36-8

Molecular Formula: C₉H₁₇NO

Molecular Weight: 155.239

Accurate Mass: 155.131014

Percentage Composition: C 69.63%; H 11.04%; N 9.02%; O 10.31%

Biological Source: Isol. from *Acalypha indica* and *Salsola tetrandra* (Euphorbiaceae, Chenopodiaceae), also from *Viola odorata*. Metab. of the soft coral *Lobophytum strictum*

Physical Description: Plates + 1H₂O (Et₂O), anhyd. needles (dry Et₂O)

Melting Point: Mp 34.9° (anhyd.)

Boiling Point: Bp 205°

Other Data: The hydrochloride of the alkaloid from *Salsola tetrandra* was reported to have $[\alpha]_D +14.3^\circ$ (EtOH) which makes the struct. assignment highly dubious. Artifact

Aldrich: 45911-9

>>Derivative: Monohydrate

CAS Registry Number: 10581-38-1

Melting Point: Mp 61-63° (58°)

Boiling Point: Bp₁₈ 102-105°

>>Derivative: Hydrochloride

CAS Registry Number: 33973-59-0

Melting Point: Mp 198 dec.°

Aldrich: 11576-2

Fluka: 87910

Sigma: T9268

>>Derivative: Oxime

CAS Registry Number: 4168-79-0

Molecular Formula: C₉H₁₈N₂O

Molecular Weight: 170.254

Accurate Mass: 170.141913

Percentage Composition: C 63.49%; H 10.66%; N 16.45%; O 9.40%

Physical Description: Prisms (EtOH)

Melting Point: Mp 153°

Hazard & Toxicity: LD₅₀ (mus, ivn) 180 mg/kg

>>Derivative: Semicarbazone

Physical Description: Cryst. (EtOH)

Melting Point: Mp 219-220°

>>Derivative: *N,N*-Di-Me

Synonym(s): 1,1,2,2,6,6-Hexamethyl-4-oxopiperidinium, 9Cl. 1,1,2,2,6,6-Hexamethyl-4-piperidinone

Extra CAS Registry Numbers(s): 113308-50-2 195864-37-0

Molecular Formula: C₁₁H₂₂NO⁽⁺⁾

Molecular Weight: 184.301

Accurate Mass: 184.170139

Percentage Composition: C 71.69%; H 12.03%; N 7.60%; O 8.68%

Biological Source: Quaternary alkaloid from the alga *Laminaria japonica*