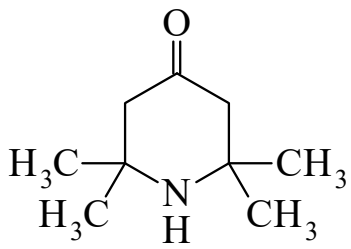
>>**Entry Name: 2,2,6,6-Tetramethyl-4-piperidinone,** 9CI

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



CAS Registry Number: 826-36-8

Molecular Formula: $C_9H_{17}NO$
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 + $1H_2O$ (Et_2O), anhyd. needles (dry Et_2O)
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° (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: Bp_{18} 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: $C_9H_{18}N_2O$
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: LD_{50} (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, 9CI. 1,1,2,2,6,6-Hexamethyl-4-piperidinone

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

Molecular Formula: $C_{11}H_{22}NO^{(+)}$
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*