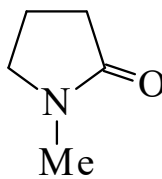




>>Entry Name: 1-Methyl-2-pyrrolidinone, 9CI

Synonym(s): N-Methylpyrrolidone



CAS Registry Number: 872-50-4

Extra CAS Registry Numbers(s): 51013-18-4

Molecular Formula: C₅H₉NO

Molecular Weight: 99.132

Accurate Mass: 99.068414

Percentage Composition: C 60.58%; H 9.15%; N 14.13%; O 16.14%

Biological Source: Alkaloid from *Melicope hayesii*

Use/Importance: Dipolar aprotic solvent, with low oral acute tox. Weakly basic, good proton acceptor from strong acids

Melting Point: Mp -17° (-24°)

Boiling Point: Bp 202°. Bp₁₀ 85°

Solubility: Sol. H₂O, most org. solvs.

Density: d₄²⁰ 1.027

pKa Value: pK_a -0.92 (H₂SO₄ aq.)

Refractive Index: n_D²⁵ 1.4690

Other Data: Steam-volatile. Forms hydrates

Hazard & Toxicity: Fl. p. 96° (oc), autoignition temp. 346°. Severe eye irritant. Exp. reprod. and teratogenic effects. OES: long-term 100 ppm

Aldrich: 27045-8

Fluka: 69120

Sigma: M6762

>>Derivative: Hydrochloride

CAS Registry Number: 16889-93-3

Melting Point: Mp 79-81°

>>Derivative: Oxime

CAS Registry Number: 35197-40-1

Molecular Formula: C₅H₁₀N₂O

Molecular Weight: 114.147

Accurate Mass: 114.079313

Percentage Composition: C 52.61%; H 8.83%; N 24.54%; O 14.02%

Melting Point: Mp 98-99°

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