



>>Entry Name: **N-Methylacetamide**, 9Cl, 8Cl

Synonym(s): Acetylmethylamine

CAS Registry Number: 79-16-3

H3CCONHMe

Molecular Formula: C3H7NO

Molecular Weight: 73.094

Accurate Mass: 73.052764

Percentage Composition: C 49.30%; H 9.65%; N 19.16%; O 21.89%

Use/Importance: Powerful solv.

Physical Description: V. hygroscopic needles

Melting Point: Mp 30.55°

Boiling Point: Bp 206°. Bp₉₀ 140.5°

Solubility: Sol. H₂O, EtOH, C₆H₆; insol. petrol

pKa Value: pK_{a1} -0.46; pK_{a2} -3.7

Hazard & Toxicity: Fl. p. >107°. Low acute tox.. Exp. reprod. and teratogenic effects. Exp. diabetogen

Aldrich: M2630-5

Fluka: 65430

>>Derivative: Hydrochloride

Melting Point: Mp 87-89°

References:

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **1**, 754D, (*ir*)

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Dawson, L.R. *et al.*, *J.A.C.S.*, 1955, **77**, 1986, (*synth*)

Ramachandran, G.N. *et al.*, *Z. Naturforsch., A*, 1973, **28**, 643, (*cryst struct*)

Yamashita, M. *et al.*, *Tet. Lett.*, 1976, 1585, (*synth*)

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