



>>Entry Name: **Diacetamide**

Synonym(s): *N*-Acetylacetamide, 9CI

CAS Registry Number: 625-77-4

H3CCONHCOCH3

Molecular Formula: C₄H₇NO₂

Molecular Weight: 101.105

Accurate Mass: 101.047679

Percentage Composition: C 47.52%; H 6.98%; N 13.85%; O 31.65%

Physical Description: Needles (Et₂O or C₆H₆/petrol)

Melting Point: Mp 79°

Boiling Point: Bp 216-218°

Other Data: Dec. at 250°. Hydrol. by boiling H₂O to AcOH + NH₃

Aldrich: D595-0

References:

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **1**, 756A, (*ir*)

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **1**, 1232C, (*nmr*)

Hentschel, W., *Ber.*, 1890, **23**, 2395, (*synth*)

Titherley, A.W., *J.C.S.*, 1901, **79**, 396; 411, (*synth*)

Taschner, E. *et al.*, *CA*, 1954, **48**, 9325, (*synth*)

Forlani, L. *et al.*, *J. Het. Chem.*, 2000, **37**, 63-69, (*pmr, ms*)