



>>Entry Name: 1-Methoxy-2-propanone, 9CI, 8CI
Synonym(s): Methoxyacetone. Acetonyl methyl ether

CAS Registry Number: 5878-19-3
H3CCOCH2OMe

Molecular Formula: C4H8O2
Molecular Weight: 88.106
Accurate Mass: 88.05243
Percentage Composition: C 54.53%; H 9.15%; O 36.32%
Physical Description: Oil
Boiling Point: Bp 114-116°
Solubility: Sol. H₂O, most org. solvs.
Other Data: Reduces Fehling's soln.
Hazard & Toxicity: Irritant

Aldrich: 17718-0

>>Derivative: 2,4-Dinitrophenylhydrazone

Physical Description: Yellow-orange needles (EtOH)
Melting Point: Mp 162.5-163°

>>Derivative: 4-Nitrophenylhydrazone

Physical Description: Yellow needles (C₆H₆/petrol)
Melting Point: Mp 101-102°

References:

Aldrich Library of ¹³C and ¹H FT NMR Spectra, 1992, **1**, 656A, (*nmr*)
Aldrich Library of FT-IR Spectra, 1st edn., 1985, **1**, 422C, (*ir*)
Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 508A, (*ir*)
Mariella, R.P. *et al.*, *J.A.C.S.*, 1949, **71**, 3558, (*synth*)
Reppe, W. *et al.*, *Annalen*, 1955, **596**, 38, (*synth*)