



>>Entry Name: 4-Methoxy-3-buten-2-one

CAS Registry Number: 4652-27-1

Related CAS Registry Numbers(s): 57155-06-3

MeOCH=CHCOCH₃

Molecular Formula: C₅H₈O₂

Molecular Weight: 100.117

Accurate Mass: 100.05243

Percentage Composition: C 59.98%; H 8.05%; O 31.96%

Boiling Point: Bp 200°. Bp₇ 74-75°

Other Data: Mixt. of isomers

>>Derivative: *p*-Nitrophenylhydrazone

Physical Description: Cryst.

Melting Point: Mp 164-166°

>>Variant: (*E*)-form

CAS Registry Number: 51731-17-0

Molecular Formula: C₅H₈O₂

Molecular Weight: 100.117

Accurate Mass: 100.05243

Percentage Composition: C 59.98%; H 8.05%; O 31.96%

Boiling Point: Bp 200°. Bp_{4.5} 52-53° (lit. gives a pressure range)

Density: d 0.98

Refractive Index: n_D²⁰ 1.4699

References:

Franke, W. *et al.*, *Chem. Ber.*, 1953, **86**, 793, (*synth*)

Royals, E.E. *et al.*, *J.A.C.S.*, 1954, **76**, 3041, (*synth*)

Castells, J. *et al.*, *An. Quim.*, 1974, **70**, 932, (*pmr, config*)

Danishevsky, S. *et al.*, *J.A.C.S.*, 1974, **96**, 7807, (*synth, derivs, ir, pmr, ms*)

Dabrowski, J. *et al.*, *Bull. Chem. Soc. Jpn.*, 1975, 1315, (*ir, pmr*)

Braun, S. *et al.*, *Org. Magn. Reson.*, 1978, **11**, 197, (*pmr, config*)

Terlouw, J.K. *et al.*, *Org. Mass Spectrom.*, 1980, **15**, 599, (*ms*)

Fieser and Fieser's Reagents for Organic Synthesis, Wiley, 1982, **10**, 258, (*derivs, salts*)