



>>Entry Name: 3-Decen-2-one, 9CI

ENTRY UNDER REVIEW

Synonym(s): FEMA 3532

CAS Registry Number: 10519-33-2

$\text{H}_3\text{C}(\text{CH}_2)_5\text{CH}=\text{CHCOCH}_3$

Molecular Formula: $\text{C}_{10}\text{H}_{18}\text{O}$

Molecular Weight: 154.252

Accurate Mass: 154.135765

Percentage Composition: C 77.87%; H 11.76%; O 10.37%

Aldrich: W35320-5

>>Variant: (*E*)-form

CAS Registry Number: 18402-84-1

Molecular Formula: $\text{C}_{10}\text{H}_{18}\text{O}$

Molecular Weight: 154.252

Accurate Mass: 154.135765

Percentage Composition: C 77.87%; H 11.76%; O 10.37%

Boiling Point: Bp_{14} 105°

>>Derivative: Semicarbazone

Physical Description: Cryst. + 1H₂O (EtOH aq.)

Melting Point: Mp 110-111°

Other Data: Semicarbazone and 2,4-dinitrophenylhydrazone presumed here to belong to (*E*)-isomer

>>Derivative: 2,4-Dinitrophenylhydrazone

CAS Registry Number: 3013-10-3

Melting Point: Mp 78°

References:

Sturtz, G., *Bull. Soc. Chim. Fr.*, 1967, 2477, (*synth, ir*)

Sheikh, Y.M. *et al.*, *Org. Mass Spectrom., Suppl.*, 1970, **4**, 273, (*ms*)

Kelleher, R.G. *et al.*, *Chem. Comm.*, 1980, 486, (*synth*)

Loiseau, A.-M. *et al.*, *Bull. Soc. Chim. Fr.*, 1982, 144, (*synth, ir, Raman*)

Hideg, K. *et al.*, *J.C.S. Perkin 1*, 1986, 1431, (*synth*)

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