



>>Entry Name: 2-Dodecanone

CAS Registry Number: 6175-49-1

Type of Compound Code(s): VA0250

$\text{H}_3\text{C}(\text{CH}_2)_9\text{COCH}_3$

Molecular Formula: $\text{C}_{12}\text{H}_{24}\text{O}$

Molecular Weight: 184.321

Accurate Mass: 184.182715

Percentage Composition: C 78.20%; H 13.12%; O 8.68%

Biological Source: Detected in rue oils, fish volatiles, tomato leaf oil and *Cannabis sativa* oil. Also in hop oil (*Humulus lupulus*) and oil of *Schisandra nigra*

Use/Importance: Antifungal agent

Melting Point: Mp 21°

Boiling Point: Bp₁₀₀ 177-178°. Bp_{3.5} 101°

Refractive Index: n_D²⁰ 1.4340

Rare Chemicals Library: S55938-5

Other: PB D56079

>>Derivative: Semicarbazone

Physical Description: Needles (EtOH)

Melting Point: Mp 122-123°

>>Derivative: 2,4-Dinitrophenylhydrazone

CAS Registry Number: 81874-90-0

Melting Point: Mp 81°

References:

Pickard, R.H. *et al.*, *J.C.S.*, 1911, **99**, 57, (*synth*)

Asinger, F., *Ber.*, 1944, **77**, 73, (*synth*)

U.S. Pat., 1968, 3 365 499; *CA*, **69**, 35440, (*manuf*)

Yeo, A.N.H. *et al.*, *Chem. Comm.*, 1970, 987, (*ms*)

Cooke, M.P., *J.O.C.*, 1973, **38**, 4082, (*synth*)

Bente, P.F. *et al.*, *J. Phys. Chem.*, 1975, **79**, 713, (*ms*)

Kabalka, G.W. *et al.*, *J. Chem. Educ.*, 1976, **53**, 549, (*synth*)

Hokanson, E.C. *et al.*, *J.O.C.*, 1985, **50**, 462, (*synth, pmr*)

McDowell, P.G. *et al.*, *Phytochemistry*, 1988, **27**, 2519, (*isol*)