



>>Entry Name: 1-Octen-3-one, 9CI

Synonym(s): FEMA 3515

CAS Registry Number: 4312-99-6

$\text{H}_3\text{C}(\text{CH}_2)_4\text{COCH}=\text{CH}_2$

Molecular Formula: $\text{C}_8\text{H}_{14}\text{O}$

Molecular Weight: 126.198

Accurate Mass: 126.104465

Percentage Composition: C 76.14%; H 11.18%; O 12.68%

Use/Importance: Mushroom flavour component (shiitake, matsutake)

Boiling Point: Bp_{14} 63-65°

>>Derivative: 2,4-Dinitrophenylhydrazone

CAS Registry Number: 92325-46-7

Melting Point: Mp 124°

References:

Sasson, Y. *et al.*, *Can. J. Chem.*, 1974, **52**, 3825, (*synth*)

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Pyysalo, H., *Acta Chem. Scand., Ser. B*, 1976, **30**, 235, (*isol*)

Buttery, R.G. *et al.*, *J. Agric. Food Chem.*, 1978, **26**, 791-793, (*isol*)

Marczak, S. *et al.*, *Synth. Commun.*, 1990, **20**, 1511, (*synth*)

Venturello, C. *et al.*, *J.O.C.*, 1991, **56**, 5924, (*synth, ir, pmr*)

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Cha, Y.-J. *et al.*, *CA*, 1998, **130**, 310820q, (*isol*)

Man, J.-L. *et al.*, *J. Agric. Food Chem.*, 1998, **46**, 4587-4591, (*isol*)