



>>Derivative: Me ether

Synonym(s): 4-Methoxy-2,5-dimethyl-3(2*H*)-furanone. *O*-Methylfuraneol. **Mesifurane**. FEMA 3664

CAS Registry Number: 4077-47-8

Molecular Formula: C₇H₁₀O₃

Molecular Weight: 142.154

Accurate Mass: 142.062995

Percentage Composition: C 59.14%; H 7.09%; O 33.76%

Biological Source: Constit. of various fruits incl. raspberry, strawberry and mango

Use/Importance: Flavouring ingredient

Physical Description: Oil with burned sugar odour

Boiling Point: Bp_{0.3} 61-63°

Aldrich: W36640-4

>>Variant: (ξ)-form

Molecular Formula: C₆H₈O₃

Molecular Weight: 128.127

Accurate Mass: 128.047345

Percentage Composition: C 56.25%; H 6.29%; O 37.46%

References:

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Henry, D.W. *et al.*, *J.O.C.*, 1966, **31**, 2391, (*synth, ir, pmr, uv*)

Re, L. *et al.*, *Helv. Chim. Acta*, 1973, **56**, 1882, (*synth*)

Büchi, G. *et al.*, *J.O.C.*, 1973, **38**, 123, (*synth, pmr*)

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Mills, F.D., *J. Agric. Food Chem.*, 1978, **26**, 894, (*synth, ms*)

Wong, C.H. *et al.*, *J.O.C.*, 1983, **48**, 3493, (*synth, pmr*)

Briggs, M.A. *et al.*, *J.C.S. Perkin I*, 1985, 795, (*synth*)

Mayerl, F. *et al.*, *Phytochemistry*, 1989, **28**, 631, (*isol, deriv, synth*)

Mazenod, F. *et al.*, *Chimia*, 1992, **46**, 403, (*synth*)

Inokuchi, T. *et al.*, *J.O.C.*, 1992, **57**, 5023, (*synth*)

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Zabetakis, I. *et al.*, *Spec. Publ. - R. Soc. Chem.*, 1996, **197**, 90-93, (*biosynth*)

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