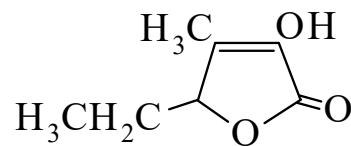




>>Entry Name: 5-Ethyl-3-hydroxy-4-methyl-2(5*H*)-furanone, 9CI

Synonym(s): 2,4-Dihydroxy-3-methyl-2-hexenoic acid γ -lactone. 5-Ethyl-4-methylisotetronic acid. Abhexone. 5-Ethylsotolone



CAS Registry Number: 698-10-2

Molecular Formula: C₇H₁₀O₃

Molecular Weight: 142.154

Accurate Mass: 142.062995

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

Biological Source: Prod. in protein hydrolysates

Physical Description: Hygroscopic yellow oil with intense odour of lovage

Aldrich: W31530-3

>>Variant: (±)-form

Molecular Formula: C₇H₁₀O₃

Molecular Weight: 142.154

Accurate Mass: 142.062995

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

Use/Importance: Flavouring for foodstuffs

Melting Point: Mp 21°

Boiling Point: Bp_{0.2} 92-94°. Bp_{0.003} 70-71°

>>Derivative: Ac

Molecular Formula: C₉H₁₂O₄

Molecular Weight: 184.191

Accurate Mass: 184.07356

Percentage Composition: C 58.69%; H 6.57%; O 34.75%

Boiling Point: Bp_{0.05} 90-92°

References:

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Sakan, T. *et al.*, *Bull. Chem. Soc. Jpn.*, 1964, **37**, 1171, (*uv, ir*)

Ger. Pat., 1970, 1 955 390; *CA*, **73**, 77034, (*synth, use*)

Bonini, C.C. *et al.*, *Org. Mass Spectrom.*, 1980, **15**, 516, (*ms*)

Stach, H. *et al.*, *Helv. Chim. Acta*, 1987, **70**, 369, (*synth, ir, pmr, cmr, bibl*)