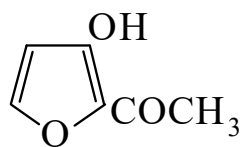




>>Entry Name: 2-Acetyl-3-hydroxyfuran

Synonym(s): Isomaltol



CAS Registry Number: 3420-59-5

Molecular Formula: C₆H₆O₃

Molecular Weight: 126.112

Accurate Mass: 126.031695

Percentage Composition: C 57.14%; H 4.80%; O 38.06%

Physical Description: Cryst. (H₂O or Et₂O)

Melting Point: Mp 98-103°

Boiling Point: Subl.₁₈ 115°

pKa Value: pK_a 5.7

>>Derivative: Me ether

CAS Registry Number: 3420-58-4

Molecular Formula: C₇H₈O₃

Molecular Weight: 140.138

Accurate Mass: 140.047345

Percentage Composition: C 60.00%; H 5.75%; O 34.25%

Physical Description: Prisms (Et₂O)

Melting Point: Mp 101-102°

References:

Hodge, J.E. *et al.*, *Cereal Chem.*, 1961, **38**, 207, (*synth, ir, uv*)

Fisher, B.E. *et al.*, *J.O.C.*, 1964, **29**, 776-781, (*ir, struct*)

Weeks, P.D. *et al.*, *J.O.C.*, 1980, **45**, 1109-1113, (*use*)

Fox, R.C. *et al.*, *Synth. Commun.*, 1999, **29**, 989-1001, (*synth, pmr, cmr*)