



>>Entry Name: **3-Acetyl-2,5-dimethylfuran**

Synonym(s): 1-(2,5-Dimethyl-3-furanyl)ethanone, 9CI. 2,5-Dimethyl-3-furyl methyl ketone, 8CI

CAS Registry Number: 10599-70-9

Molecular Formula: C₈H₁₀O₂

Molecular Weight: 138.166

Accurate Mass: 138.06808

Percentage Composition: C 69.55%; H 7.29%; O 23.16%

Boiling Point: Bp_{0.25} 62°

Density: d₄²⁵ 1.033

Refractive Index: n_D²⁰ 1.4850

Aldrich: 30269-4

>>Derivative: Oxime

Molecular Formula: C₈H₁₁NO₂

Molecular Weight: 153.18

Accurate Mass: 153.078979

Percentage Composition: C 62.73%; H 7.24%; N 9.14%; O 20.89%

Physical Description: Cryst. (EtOH aq.)

Melting Point: Mp 78°

>>Derivative: Phenylhydrazone

Physical Description: Cryst. (EtOH aq.)

Melting Point: Mp 137°

>>Derivative: 2,4-Dinitrophenylhydrazone

Physical Description: Cryst. (EtOH)

Melting Point: Mp 194-195°

References:

Heyns, K. *et al.*, *Tetrahedron*, 1966, **22**, 2223, (*ms*)

Yanami, T. *et al.*, *J.C.S. Perkin 1*, 1978, 1144, (*synth*, *pmr*, *uv*)

Kretchmer, R.H. *et al.*, *J.O.C.*, 1978, **43**, 4596, (*synth*)

Baclocchi, E. *et al.*, *Synth. Commun.*, 1988, **18**, 1841, (*synth*)