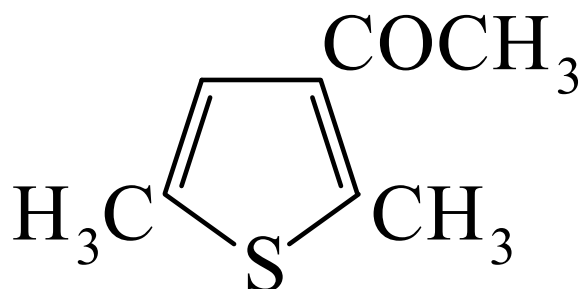




>>Entry Name: 3-Acetyl-2,5-dimethylthiophene

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



CAS Registry Number: 2530-10-1

Molecular Formula: C₈H₁₀OS

Molecular Weight: 154.232

Accurate Mass: 154.045235

Percentage Composition: C 62.30%; H 6.53%; O 10.37%; S 20.79%

Boiling Point: Bp₁₅ 105-108°

Refractive Index: n_D²⁰ 1.5440

Aldrich: 22579-7

>>Derivative: S,S-Dioxide

Molecular Formula: C₈H₁₀O₃S

Molecular Weight: 186.231

Accurate Mass: 186.035065

Percentage Composition: C 51.60%; H 5.41%; O 25.77%; S 17.22%

Physical Description: Cryst.

Melting Point: Mp 124°

References:

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **1**, 1473D; **2**, 597C, (*ir*)

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **3**, 54C, (*nmr*)

Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 1473D, (*ir*)

Glaze, A.P. *et al.*, *J.C.S. Perkin I*, 1985, 957, (*synth*)

Rozen, S. *et al.*, *J.O.C.*, 1997, **62**, 1457-1462, (*dioxide, synth, ir, pmr*)