



>>Entry Name: 3,5-Dimethylbenzo[*b*]thiophene

CAS Registry Number: 1964-45-0

Structure by analogy with 2,3-Dimethylbenzo[*b*]thiophene, [JST52-W](#)

Molecular Formula: C₁₀H₁₀S

Molecular Weight: 162.255

Accurate Mass: 162.05032

Percentage Composition: C 74.03%; H 6.21%; S 19.76%

Physical Description: Oil

Boiling Point: Bp₁₄ 125-126°. Bp₉ 118-118.5°

>>Derivative: Picrate

Physical Description: Orange needles (EtOH)

Melting Point: Mp 113-114°

>>Derivative: S,S-Dioxide

CAS Registry Number: 1964-40-5

Molecular Formula: C₁₀H₁₀O₂S

Molecular Weight: 194.254

Accurate Mass: 194.04015

Percentage Composition: C 61.83%; H 5.19%; O 16.47%; S 16.51%

Melting Point: Mp 157-159°

References:

Krollpfeiffer, F. *et al.*, *Annalen*, 1949, **563**, 15, (*synth*)

Banfield, J.E. *et al.*, *J.C.S.*, 1956, 4791, (*synth*)

Pailer, M. *et al.*, *Monatsh. Chem.*, 1960, **91**, 1070, (*deriv*)