



>>Entry Name: 5-Hydroxybenzo[*b*]thiophene

Synonym(s): Benzo[*b*]thiophene-5-ol, 9CI

CAS Registry Number: 19301-35-0

Molecular Formula: C₈H₆OS

Molecular Weight: 150.201

Accurate Mass: 150.013935

Percentage Composition: C 63.97%; H 4.03%; O 10.65%; S 21.35%

Melting Point: Mp 103-105°

>>Derivative: Me ether

Synonym(s): 5-Methoxybenzo[*b*]thiophene

CAS Registry Number: 20532-30-3

Molecular Formula: C₉H₈OS

Molecular Weight: 164.228

Accurate Mass: 164.029585

Percentage Composition: C 65.82%; H 4.91%; O 9.74%; S 19.53%

Physical Description: Pale yellow cryst. (hexane/Et₂O)

Melting Point: Mp 39-43°

References:

Fieser, L. *et al.*, *J.A.C.S.*, 1935, **57**, 1611, (*synth*)

Zambias, R.A. *et al.*, *Synth. Commun.*, 1991, **21**, 959, (*synth, pmr*)

Kita, Y. *et al.*, *Synthesis*, 1999, 885-897, (*Me ether*)

Pérez-Silanes, S. *et al.*, *J. Het. Chem.*, 2001, **38**, 1025-1030, (*synth, pmr*)