



>>Entry Name: 7-Hydroxybenzo[*b*]thiophene

Synonym(s): Benzo[*b*]thiophene-7-ol

CAS Registry Number: 77898-35-2

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%

Physical Description: Needles (hexane)

Melting Point: Mp 68.5-69.5°

>>Derivative: Me ether

Synonym(s): 7-Methoxybenzo[*b*]thiophene

CAS Registry Number: 88791-08-6

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: Oil

Boiling Point: Bp₁₅ 140-145°. Bp_{0.2} 85-90°

>>Derivative: Allyl ether

Synonym(s): 7-Allyloxybenzo[*b*]thiophene. 7-(2-Propenyloxy)benzo[*b*]thiophene

CAS Registry Number: 88791-10-0

Molecular Formula: C₁₁H₁₀OS

Molecular Weight: 190.265

Accurate Mass: 190.045235

Percentage Composition: C 69.44%; H 5.30%; O 8.41%; S 16.85%

Physical Description: Oil

Boiling Point: Bp_{0.5} 105-108°

References:

Rahman, L.K.A. *et al.*, *J.C.S. Perkin I*, 1983, 2973, (*synth, ir, pmr*)

Samanta, S.S. *et al.*, *J.C.S. Perkin I*, 1997, 3673-3677, (*synth, Me ether, pmr*)