



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

Synonym(s): Benzo[*b*]thiophen-5-amine, 9Cl. 5-Aminothionaphthene

CAS Registry Number: 20532-28-9

Molecular Formula: C₈H₇NS

Molecular Weight: 149.216

Accurate Mass: 149.029919

Percentage Composition: C 64.40%; H 4.73%; N 9.39%; S 21.49%

Physical Description: Cryst. (EtOH aq. or C₆H₆ or Me₂CO)

Melting Point: Mp 71-73°

>>Derivative: *N*-Ac

CAS Registry Number: 18044-91-2

Molecular Formula: C₁₀H₉NOS

Molecular Weight: 191.253

Accurate Mass: 191.040484

Percentage Composition: C 62.80%; H 4.74%; N 7.32%; O 8.37%; S 16.77%

Physical Description: Cryst. (EtOH or C₆H₆)

Melting Point: Mp 106° (108°)

References:

Fries, K. *et al.*, *Annalen*, 1936, **527**, 83, (*synth*)

Martin-Smith, M. *et al.*, *J.A.C.S.*, 1956, **78**, 5351, (*synth*)

Caddy, B. *et al.*, *Aust. J. Chem.*, 1968, **21**, 1853, (*nmr*)

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