



>>Entry Name: 3-Aminobenzo[*b*]thiophene

Synonym(s): Benzo[*b*]thiophen-3-amine, 9Cl. 3-Aminothionaphthene

CAS Registry Number: 17402-82-3

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: Oil (solid)

Melting Point: Mp 37-38°

Solubility: Sol. dil. min. acids

Other Data: Steam-volatile. Resinifies in air.

>>Derivative: Chlorozincate, (BH⁺)₂ZnCl₄⁻

Physical Description: Grey-brown needles (C₆H₆/EtOH)

Melting Point: Mp 204°

>>Derivative: *N*-Ac

CAS Registry Number: 16810-40-5

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: Prisms (MeOH)

Melting Point: Mp 169-171°

References:

Komppa, G., *J. Prakt. Chem.*, 1929, **122**, 324, (*synth*)

El-Shanta, M.S. *et al.*, *J.C.S.(C)*, 1967, 2364

Boswell, D.E. *et al.*, *J. Het. Chem.*, 1968, **5**, 69, (*synth*)

Carrington, D.E.L. *et al.*, *J.C.S.(C)*, 1971, 3903