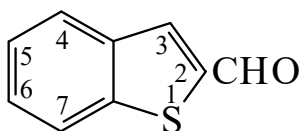




>>Entry Name: Benzo[*b*]thiophene-2-carboxaldehyde, 9CI

Synonym(s): 2-Formylbenzo[*b*]thiophene



CAS Registry Number: 3541-37-5

Molecular Formula: C<sub>9</sub>H<sub>6</sub>OS

Molecular Weight: 162.212

Accurate Mass: 162.013935

Percentage Composition: C 66.64%; H 3.73%; O 9.86%; S 19.77%

Physical Description: Cryst. (EtOH)

Melting Point: Mp 42° (34°)

>>Derivative: 2,4-Dinitrophenylhydrazone

Physical Description: Solid

Melting Point: Mp 298°

>>Derivative: Thiosemicarbazone

Molecular Formula: C<sub>10</sub>H<sub>9</sub>N<sub>3</sub>S<sub>2</sub>

Molecular Weight: 235.333

Percentage Composition: C 51.04%; H 3.85%; N 17.86%; S 27.25%

Physical Description: Cryst. (EtOH)

Melting Point: Mp 219-220°

#### References:

Shirley, D.A. *et al.*, *J.A.C.S.*, 1952, **74**, 2935, (*synth*)

Matsuki, Y. *et al.*, *Nippon Kagaku Zasshi*, 1966, **87**, 186, (*synth*, *uv*)

Harrison, D.R. *et al.*, *J.C.S.(C)*, 1970, 1764, (*pmr*)

Andrieu, C.G. *et al.*, *Bull. Soc. Chim. Fr.*, 1972, 1008, (*conformn*, *ir*)

Benassi, R. *et al.*, *J.C.S. Perkin 2*, 1983, 911, (*pmr*, *cmr*)

Hsiao, C. *et al.*, *Synth. Commun.*, 1990, **20**, 1687, (*synth*)