



>>Entry Name: 4,5-Dibromo-2-thiophenecarboxaldehyde, 9CI

Synonym(s): 2,3-Dibromo-5-formylthiophene

CAS Registry Number: 38071-22-6

Molecular Formula: C₅H₂Br₂OS

Molecular Weight: 269.944

Accurate Mass: 267.859307

Percentage Composition: C 22.25%; H 0.75%; Br 59.20%; O 5.93%; S 11.88%

Melting Point: Mp 225.5-228°

>>Derivative: Oxime

Molecular Formula: C₅H₃Br₂NOS

Molecular Weight: 284.959

Accurate Mass: 282.870206

Percentage Composition: C 21.07%; H 1.06%; Br 56.08%; N 4.92%; O 5.61%; S 11.25%

Physical Description: Cryst. (EtOH)

Melting Point: Mp 139°

>>Derivative: Semicarbazone

Physical Description: Cryst. (EtOH)

Melting Point: Mp 248°

>>Derivative: Ethylene acetal

Molecular Formula: C₇H₆Br₂O₂S

Molecular Weight: 313.997

Accurate Mass: 311.885522

Percentage Composition: C 26.78%; H 1.93%; Br 50.89%; O 10.19%; S 10.21%

Physical Description: Oil

References:

Rojahn, C.A. *et al.*, *Arch. Pharm. (Weinheim, Ger.)*, 1926, **264**, 348; 351, (*synth*)

Gol'dfarb, Y.L. *et al.*, *Zh. Obshch. Khim.*, 1964, **34**, 969, (*synth*)

Johnson, A.L., *J.O.C.*, 1976, **41**, 1320, (*acetal*)