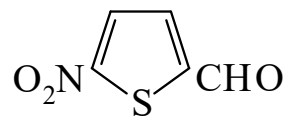




>>Entry Name: 5-Nitro-2-thiophenecarboxaldehyde, 9CI

Synonym(s): 2-Formyl-5-nitrothiophene



CAS Registry Number: 4521-33-9

Molecular Formula: C₅H₃NO₃S

Molecular Weight: 157.15

Accurate Mass: 156.983364

Percentage Composition: C 38.22%; H 1.92%; N 8.91%; O 30.54%; S 20.40%

Physical Description: Cryst. (H₂O)

Melting Point: Mp 75-77°

Aldrich: 30229-5

>>Derivative: Dimethylhydrazone

Molecular Formula: C₇H₉N₃O₂S

Molecular Weight: 199.233

Accurate Mass: 199.041547

Percentage Composition: C 42.20%; H 4.55%; N 21.09%; O 16.06%; S 16.09%

Physical Description: Red solid (toluene)

Melting Point: Mp 119-120°

References:

Patrick, T.M. *et al.*, *J.A.C.S.*, 1952, **74**, 1356, (*synth*)

Hutchings, M.G. *et al.*, *J.C.S. Perkin 2*, 1995, 171, (*deriv synth, pmr, uv*)