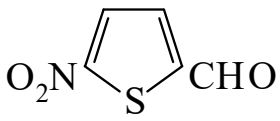
>>**Entry Name: 5-Nitro-2-thiophenecarboxaldehyde,** 9CI
Synonym(s): 2-Formyl-5-nitrothiophene



CAS Registry Number: 4521-33-9

Molecular Formula: $C_5H_3NO_3S$
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. (H_2O)
Melting Point: Mp 75-77°

Aldrich: 30229-5

>>**Derivative:** Dimethylhydrazone

Molecular Formula: $C_7H_9N_3O_2S$
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)*

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