



>>Entry Name: 4-Hydroxy-1-naphthalenecarboxaldehyde, 9Cl
Synonym(s): 4-Hydroxy-1-naphthaldehyde, 8Cl. 4-Formyl-1-naphthol

CAS Registry Number: 7770-45-8

Molecular Formula: C₁₁H₈O₂
Molecular Weight: 172.183
Accurate Mass: 172.05243
Percentage Composition: C 76.73%; H 4.68%; O 18.58%
Physical Description: Yellow needles (H₂O)
Melting Point: Mp 181°
pKa Value: pK_{a1} 6.53 (25°)

>>Derivative: Oxime

CAS Registry Number: 122731-44-6
Molecular Formula: C₁₁H₉NO₂
Molecular Weight: 187.198
Accurate Mass: 187.063329
Percentage Composition: C 70.58%; H 4.85%; N 7.48%; O 17.09%
Melting Point: Mp 140 dec.°

>>Derivative: Me ether

Synonym(s): 4-Methoxy-1-naphthalenecarboxaldehyde

CAS Registry Number: 15971-29-6
Molecular Formula: C₁₂H₁₀O₂
Molecular Weight: 186.21
Accurate Mass: 186.06808
Percentage Composition: C 77.40%; H 5.41%; O 17.18%
Physical Description: Powder
Melting Point: Mp 34°
Boiling Point: Bp₄₀ 212°
Aldrich: 10324-1

References:

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Israelshvili, S. *et al.*, *J.O.C.*, 1951, **16**, 1519-1528, (*Me ether, synth*)
Skulski, L. *et al.*, *CA*, 1969, **71**, 60524z, (*uv*)
Fischer, A. *et al.*, *J.C.S. Perkin 2*, 1972, 319-321, (*pmr*)
Smith, R.A.J. *et al.*, *Synthesis*, 1984, 166-168, (*synth*)
Perumal, S. *et al.*, *Magn. Reson. Chem.*, 1992, **30**, 320-326, (*Me ester, pmr, cmr, O-17 nmr*)
Muratake, H. *et al.*, *Chem. Pharm. Bull.*, 1998, **46**, 400-412, (*synth, ir, pmr, ms*)