



>>Entry Name: 4-Quinolinecarboxaldehyde, 9Cl
Synonym(s): 4-Formylquinoline. Cinchoninaldehyde

CAS Registry Number: 4363-93-3

Molecular Formula: C₁₀H₇NO
Molecular Weight: 157.171
Accurate Mass: 157.052764
Percentage Composition: C 76.42%; H 4.49%; N 8.91%; O 10.18%
Biological Source: Alkaloid prod. by *Archangium gephyra*
Physical Description: Orange needles, plates + 1H₂O
Melting Point: Mp 51-53° (monohydrate 84-84.5°)
Boiling Point: Bp 122-123°
Solubility: Sol. H₂O, EtOH, Et₂O, toluene

Aldrich: 17696-6
Fluka: 22665

>>Derivative: Picrate

Physical Description: Cryst. (EtOH)
Melting Point: Mp 179° (sinters at 170°)

>>Derivative: Oxime

CAS Registry Number: 39977-74-7

Molecular Formula: C₁₀H₈N₂O
Molecular Weight: 172.186
Accurate Mass: 172.063663
Percentage Composition: C 69.76%; H 4.68%; N 16.27%; O 9.29%
Biological Source: Alkaloid prod. by *Archangium gephyra*
Physical Description: Needles (MeOH)
Melting Point: Mp 181-182°

>>Derivative: Phenylhydrazone

Physical Description: Yellow cryst.
Melting Point: Mp 175-176°

>>Derivative: Semicarbazone

Melting Point: Mp 244-245 dec.°

References:

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **2**, 869A, (*ir*)
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Clemo, G.R. *et al.*, *J.C.S.*, 1939, 1241
Schultz, O.E. *et al.*, *Annalen*, 1970, **740**, 192
Forbis, R.M. *et al.*, *J.A.C.S.*, 1973, **95**, 5003
Rodriguez, J.G. *et al.*, *J. Het. Chem.*, 1988, **25**, 819, (*synth*)
Böhlendorf, B. *et al.*, *Annalen*, 1996, 49-53, (*pmr, ms*)