



>>Entry Name: 4-Methyl-2-pyridinecarboxaldehyde, 9CI

Synonym(s): 4-Methylpicolinaldehyde, 8CI. 2-Formyl-4-methylpyridine

CAS Registry Number: 53547-60-7

Molecular Formula: C₇H₇NO

Molecular Weight: 121.138

Accurate Mass: 121.052764

Percentage Composition: C 69.41%; H 5.82%; N 11.56%; O 13.21%

Physical Description: Yellow oil

Boiling Point: Bp₁₅ 94-97°. Bp₈ 65-68°

>>Derivative: (E)-Oxime

CAS Registry Number: 57093-20-6

Molecular Formula: C₇H₈N₂O

Molecular Weight: 136.153

Accurate Mass: 136.063663

Percentage Composition: C 61.75%; H 5.92%; N 20.57%; O 11.75%

Physical Description: Cryst. (EtOAc)

Melting Point: Mp 171-173°

>>Derivative: Semicarbazone

Physical Description: Cryst. + ½H₂O (EtOH aq.)

Melting Point: Mp 204-206° (198-200°)

>>Derivative: 4-Nitrophenylhydrazone

Physical Description: Yellow cryst. (MeOH)

Melting Point: Mp 243-245°

>>Derivative: 1-Oxide

Molecular Formula: C₇H₇NO₂

Molecular Weight: 137.138

Accurate Mass: 137.047679

Percentage Composition: C 61.31%; H 5.14%; N 10.21%; O 23.33%

Physical Description: Yellow cryst. (C₆H₆)

Melting Point: Mp 127-129°

References:

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Furukawa, S. *et al.*, *Chem. Pharm. Bull.*, 1955, **3**, 232, (*synth*)

Furukawa, S., *Yakugaku Zasshi*, 1958, **78**, 957; *CA*, **53**, 3219, (*oxide*)

Nishimoto, N. *et al.*, *CA*, 1961, **55**, 13421a, (*synth*)

Francesca, A. *et al.*, *J. Med. Chem.*, 1975, **18**, 1147, (*synth*, *uv*, *ir*, *pmr*)

Schulz, O.E. *et al.*, *Arch. Pharm. (Weinheim, Ger.)*, 1977, **310**, 128, (*synth*)

Goodson, P.A. *et al.*, *J.A.C.S.*, 1990, **112**, 6248, (*synth*, *pmr*)