



>>Entry Name: 5-Methyl-2-pyridinecarboxaldehyde, 9CI
Synonym(s): 5-Methylpicolinaldehyde, 8CI. 2-Formyl-5-methylpyridine

CAS Registry Number: 4985-92-6

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: Cryst.
Melting Point: Mp 41.5°
Boiling Point: Bp₁₇ 126-130°. Bp_{0.7} 70-72°

>>Derivative: Oxime

CAS Registry Number: 14540-12-6
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.
Melting Point: Mp 157-158.5°

>>Derivative: Phenylhydrazone

Physical Description: Cryst.
Melting Point: Mp 160°

>>Derivative: Semicarbazone

Physical Description: Cryst.
Melting Point: Mp 208.5°

>>Derivative: 1-Oxide

CAS Registry Number: 54618-17-6
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 164.5-165.5°

References:

- Mathes, W. *et al.*, *Chem. Ber.*, 1957, **90**, 758, (*synth*)
Jerchel, D. *et al.*, *Annalen*, 1958, **613**, 153, (*oxide*)
Hackley, B.E. *et al.*, *J.O.C.*, 1967, **32**, 2624, (*oxime*)
Schulz, O.E. *et al.*, *Arch. Pharm. (Weinheim, Ger.)*, 1977, **310**, 128, (*synth*)