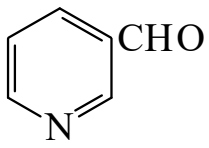
>>**Entry Name: 3-Pyridinecarboxaldehyde,** 9CI
Synonym(s): Nicotinaldehyde, 8CI. 3-Formylpyridine



CAS Registry Number: 500-22-1

Molecular Formula: C_6H_5NO
Molecular Weight: 107.112
Accurate Mass: 107.037114
Percentage Composition: C 67.28%; H 4.70%; N 13.08%; O 14.94%
Physical Description: Oil
Boiling Point: Bp_{26} 97-99°. Bp_{11} 83-87°
Solubility: Sol. H_2O, EtOH, Me_2CO, $CHCl_3$; insol. Et_2O
Density: d_4^{20}1.415
pKa Value: pK_{a1} 3.8; pK_{a2} 13.1 (20°, 0.2*M* KNO_3)
Refractive Index: n_D^{20} 1.5498
Hazard & Toxicity: Appears to be a strong skin irritant

Aldrich: P6220-8
Fluka: 82720
Sigma: P8005

>>**Derivative:** Methochloride

Melting Point: Mp 105°

>>**Derivative:** Methiodide

CAS Registry Number: 13441-54-8
Physical Description: Yellow cryst.
Melting Point: Mp 174°

>>**Derivative:** Oxime
Synonym(s): 3-Pyridinealdoxime

CAS Registry Number: 1193-92-6
Molecular Formula: $C_6H_6N_2O$
Molecular Weight: 122.126
Accurate Mass: 122.048013
Percentage Composition: C 59.01%; H 4.95%; N 22.94%; O 13.10%
Physical Description: Cryst.
Melting Point: Mp 150°
pKa Value: pK_{a2} 10.17 (25°)
Hazard & Toxicity: LD_{50} (mus, ipr) 200 mg/kg

Aldrich: P5840-5

>>**Derivative:** Hydrazone

Molecular Formula: $C_6H_7N_3$
Molecular Weight: 121.141
Accurate Mass: 121.063997
Percentage Composition: C 59.49%; H 5.82%; N 34.69%
Use/Importance: Used as 0.01*M* aq. soln. for photometric detn. of V(*V*) (λ_{max} 420 nm, ε 750)
Physical Description: Hygroscopic cryst.
Melting Point: Mp 35°
Solubility: Sol. EtOH, C_6H_6; spar. sol. H_2O

>>**Derivative:** Phenylhydrazone

CAS Registry Number: 57023-37-7
Physical Description: Cryst. (EtOH)
Melting Point: Mp 158°