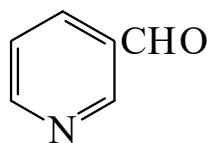




>>Entry Name: 3-Pyridinecarboxaldehyde, 9CI
Synonym(s): Nicotinaldehyde, 8CI. 3-Formylpyridine



CAS Registry Number: 500-22-1

Molecular Formula: C₆H₅NO
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: Bp₂₆ 97-99°. Bp₁₁ 83-87°
Solubility: Sol. H₂O, EtOH, Me₂CO, CHCl₃; insol. Et₂O
Density: d₄²⁰ 1.415
pKa Value: pK_{a1} 3.8; pK_{a2} 13.1 (20°, 0.2M KNO₃)
Refractive Index: n_D²⁰ 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: C₆H₆N₂O
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: LD₅₀ (mus, ipr) 200 mg/kg

Aldrich: P5840-5

>>Derivative: Hydrazone

Molecular Formula: C₆H₇N₃
Molecular Weight: 121.141
Accurate Mass: 121.063997
Percentage Composition: C 59.49%; H 5.82%; N 34.69%
Use/Importance: Used as 0.01M aq. soln. for photometric detn. of V(I) (λ_{max} 420 nm, ε 750)
Physical Description: Hygroscopic cryst.
Melting Point: Mp 35°
Solubility: Sol. EtOH, C₆H₆; spar. sol. H₂O

>>Derivative: Phenylhydrazone

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