



>>Entry Name: 3-Hydroxy-4-pyridinecarboxaldehyde, 9Cl
Synonym(s): 3-Hydroxyisonicotinaldehyde, 8Cl. 4-Formyl-3-hydroxypyridine

CAS Registry Number: 1849-54-3

Molecular Formula: C₆H₅NO₂
Molecular Weight: 123.111
Accurate Mass: 123.032029
Percentage Composition: C 58.54%; H 4.09%; N 11.38%; O 25.99%
Use/Importance: Model compd. for Pyridoxal [GCG08-L](#)
Physical Description: Yellow cryst. by subl.
Melting Point: Mp 132-133° (126-128°)

>>Derivative: Oxime

CAS Registry Number: 55717-43-6
Molecular Formula: C₆H₆N₂O₂
Molecular Weight: 138.126
Accurate Mass: 138.042928
Percentage Composition: C 52.17%; H 4.38%; N 20.28%; O 23.17%
Physical Description: Long needles (H₂O)
Melting Point: Mp 205-206°
UV: [neutral] λ_{max} 294 (ε 7800); 386 (ε 14000); 406 (ε 12500) (CHCl₃) (Berdy)

>>Derivative: 2,4-Dinitrophenylhydrazone; hydrochloride

Physical Description: Cryst. powder (EtOH aq.)
Melting Point: Mp 323-325 dec.°

>>Derivative: Thiosemicarbazone; hydrochloride

Physical Description: Dark yellow leaflets (HCl aq.)
Melting Point: Mp 245-247 dec.°

>>Derivative: Me ether
Synonym(s): 3-Methoxy-4-pyridinecarboxaldehyde

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: Cryst. (C₆H₆)
Melting Point: Mp 36-37°

>>Derivative: Me ether, oxime

Molecular Formula: C₇H₈N₂O₂
Molecular Weight: 152.152
Accurate Mass: 152.058578
Percentage Composition: C 55.26%; H 5.30%; N 18.41%; O 21.03%
Physical Description: Needles
Melting Point: Mp 160-161°

>>Derivative: Me ether, 2,4-dinitrophenylhydrazone; hydrochloride

Physical Description: Lemon yellow needles (H₂O)
Melting Point: Mp 256-258 dec.°

>>Derivative: Me ether, thiosemicarbazone; hydrochloride

Physical Description: Lemon yellow needles
Melting Point: Mp 235-245 dec.°