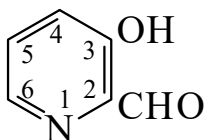




>>Entry Name: 3-Hydroxy-2-pyridinecarboxaldehyde, 9Cl

Synonym(s): 3-Hydroxypicolinaldehyde, 8Cl. 2-Formyl-3-hydroxypyridine



CAS Registry Number: 1849-55-4

Molecular Formula: C<sub>6</sub>H<sub>5</sub>NO<sub>2</sub>

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 clusters (hexane)

Melting Point: Mp 81-82° (78-79°)

Boiling Point: Bp<sub>5</sub> 64°

>>Derivative: Oxime

Molecular Formula: C<sub>6</sub>H<sub>6</sub>N<sub>2</sub>O<sub>2</sub>

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 (H<sub>2</sub>O)

Melting Point: Mp 178-179°

>>Derivative: 2,4-Dinitrophenylhydrazone; hydrochloride

Physical Description: Orange powder (EtOH aq.)

Melting Point: Mp 253-254.5°

>>Derivative: Thiosemicarbazone

CAS Registry Number: 3814-79-7

Molecular Formula: C<sub>7</sub>H<sub>8</sub>N<sub>4</sub>OS

Molecular Weight: 196.232

Accurate Mass: 196.041881

Percentage Composition: C 42.85%; H 4.11%; N 28.55%; O 8.15%; S 16.34%

Use/Importance: Used as 1mM EtOH soln. for fluorimetric detn. of Mn ( $\lambda_{\max}$  460 nm, EtOH aq. medium + H<sub>2</sub>O<sub>2</sub>)

Physical Description: Yellow cryst.

Melting Point: Mp 250-252°

Solubility: Sol. EtOH, DMF, alkalis; spar. sol. H<sub>2</sub>O

>>Derivative: Thiosemicarbazone; hydrochloride

Use/Importance: Used as 0.1% EtOH soln. for photometric detn. of Co ( $\lambda_{\max}$  450 nm,  $\epsilon$  23500)

Physical Description: Orange needles + 2H<sub>2</sub>O (HCl aq.)

Melting Point: Mp 225-235 dec.°

>>Derivative: Me ether

Synonym(s): 3-Methoxy-2-pyridinecarboxaldehyde

CAS Registry Number: 1849-53-2

Molecular Formula: C<sub>7</sub>H<sub>7</sub>NO<sub>2</sub>

Molecular Weight: 137.138

Accurate Mass: 137.047679

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

Physical Description: Leaflets (C<sub>6</sub>H<sub>6</sub>/cyclohexane)

Melting Point: Mp 67-68° (55-56°)

Boiling Point: Bp<sub>3</sub> 106-108°