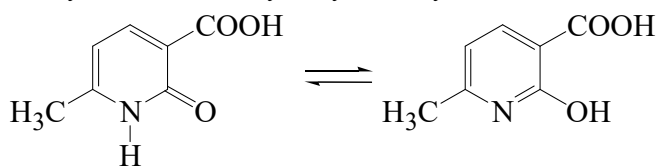




>>Entry Name: 2-Hydroxy-6-methyl-3-pyridinecarboxylic acid, 9CI

Synonym(s): 1,2-Dihydro-6-methyl-2-oxo-3-pyridinecarboxylic acid, 9CI. 2-Hydroxy-6-methylnicotinic acid. 6-Methyl-2(1*H*)-pyridone-3-carboxylic acid



CAS Registry Number: 38116-61-9

Molecular Formula: C₇H₇NO₃

Molecular Weight: 153.137

Accurate Mass: 153.042594

Percentage Composition: C 54.90%; H 4.61%; N 9.15%; O 31.34%

Use/Importance: Used for photometric detn. of Fe ($\lambda_{\max}$ 410 nm, ϵ 5000)

Physical Description: Cryst. (H₂O)

Melting Point: Mp 230-232°

Solubility: Sol. H₂O, EtOH

Aldrich: H4300-8

>>Derivative: *tert*-Butyl ester

CAS Registry Number: 81450-67-1

Molecular Formula: C₁₁H₁₅NO₃

Molecular Weight: 209.244

Accurate Mass: 209.105194

Percentage Composition: C 63.14%; H 7.23%; N 6.69%; O 22.94%

Physical Description: Solid

Melting Point: Mp 121-122°

>>Derivative: Nitrile

Synonym(s): 3-Cyano-2-hydroxy-6-methylpyridine. 3-Cyano-6-methyl-2(1*H*)-pyridinone

CAS Registry Number: 4241-27-4

Molecular Formula: C₇H₆N₂O

Molecular Weight: 134.137

Accurate Mass: 134.048013

Percentage Composition: C 62.68%; H 4.51%; N 20.88%; O 11.93%

Melting Point: Mp 293-295°

Aldrich: 27824-6

References:

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **2**, 788C, (*ir*)

Aldrich Library of ¹³C and ¹H FT NMR Spectra, 1992, **3**, 322C; 349C, (*nmr*)

Kushwaha, V. *et al.*, *Talanta*, 1973, **20**, 431

Showalter, H.D.H. *et al.*, *J. Het. Chem.*, 1981, **18**, 1609, (*ester*)

DeJohn, D. *et al.*, *J. Het. Chem.*, 1983, **20**, 1295, (*synth, ir, pmr*)

Wang, L. *et al.*, *Annalen*, 1996, 1501, (*nitrile*)