



>>Entry Name: **2-Hydroxy-5-methyl-3-pyridinecarboxylic acid**, 9CI

Synonym(s): 1,2-Dihydro-5-methyl-2-oxo-3-pyridinecarboxylic acid, 9CI. 2-Hydroxy-5-methylnicotinic acid. 5-Methyl-2(1*H*)-pyridone-3-carboxylic acid

CAS Registry Number: 38076-77-6

Molecular Formula: $C_7H_7NO_3$

Molecular Weight: 153.137

Accurate Mass: 153.042594

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

Physical Description: Leaflets (EtOH)

Melting Point: Mp 270-271°

>>Derivative: Et ester

CAS Registry Number: 85147-15-5

Molecular Formula: $C_9H_{11}NO_3$

Molecular Weight: 181.191

Accurate Mass: 181.073894

Percentage Composition: C 59.66%; H 6.12%; N 7.73%; O 26.49%

Physical Description: Pale yellow cryst. (Et₂O)

Melting Point: Mp 120-122°

>>Derivative: Nitrile

Synonym(s): 3-Cyano-2-hydroxy-5-methylpyridine. 3-Cyano-5-methyl-2(1*H*)-pyridinone

CAS Registry Number: 38076-79-8

Molecular Formula: $C_7H_6N_2O$

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 231-233°

>>Variant: *OH*-form

Molecular Formula: $C_7H_7NO_3$

Molecular Weight: 153.137

Accurate Mass: 153.042594

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

>>Derivative: Me ether, nitrile

Synonym(s): 3-Cyano-2-methoxy-5-methylpyridine

CAS Registry Number: 149379-73-7

Molecular Formula: $C_8H_8N_2O$

Molecular Weight: 148.164

Accurate Mass: 148.063663

Percentage Composition: C 64.85%; H 5.44%; N 18.91%; O 10.80%

Melting Point: Mp 72-73°

References:

Ger. Pat., 1972, 2 157 334; *CA*, **77**, 88326j, (*synth, nitrile*)

DeGraw, J.I. *et al.*, *J. Het. Chem.*, 1982, **19**, 1461-1463, (*Et ester*)

Victory, P. *et al.*, *Heterocycles*, 1993, **36**, 769-776, (*Me ether nitrile*)