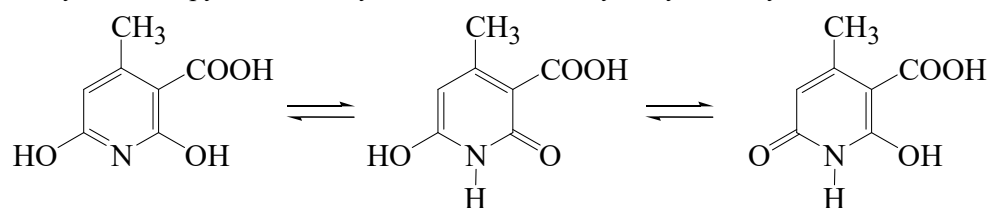




>>Entry Name: 2,6-Dihydroxy-4-methyl-3-pyridinecarboxylic acid

Synonym(s): 1,2-Dihydro-6-hydroxy-4-methyl-2-oxo-3-pyridinecarboxylic acid, 9CI. 2,6-Dihydroxy-4-methylnicotinic acid, 8CI



CAS Registry Number: 70254-51-2

Molecular Formula: $C_7H_7NO_4$

Molecular Weight: 169.137

Accurate Mass: 169.037509

Percentage Composition: C 49.71%; H 4.17%; N 8.28%; O 37.84%

>>Derivative: Et ester

CAS Registry Number: 56951-00-9

Molecular Formula: $C_9H_{11}NO_4$

Molecular Weight: 197.19

Accurate Mass: 197.068809

Percentage Composition: C 54.82%; H 5.62%; N 7.10%; O 32.45%

Physical Description: Prisms (EtOH)

Melting Point: Mp 218° (215-216°)

>>Derivative: Nitrile

Synonym(s): 1,2-Dihydro-6-hydroxy-4-methyl-2-oxo-3-pyridinecarbonitrile, 9CI. 3-Cyano-2,6-dihydroxy-4-methylpyridine

CAS Registry Number: 5444-02-0

Molecular Formula: $C_7H_6N_2O_2$

Molecular Weight: 150.137

Accurate Mass: 150.042928

Percentage Composition: C 56.00%; H 4.03%; N 18.66%; O 21.31%

Use/Importance: Dye complexer

Physical Description: Cryst. (EtOH aq.)

Melting Point: Mp 315° (dec.)

>>Variant: *NH*-form

Molecular Formula: $C_7H_7NO_4$

Molecular Weight: 169.137

Accurate Mass: 169.037509

Percentage Composition: C 49.71%; H 4.17%; N 8.28%; O 37.84%

>>Derivative: *N*-Me, nitrile

Synonym(s): 1,2-Dihydro-6-hydroxy-1,4-dimethyl-2-oxo-3-pyridinecarbonitrile, 9CI. 1,6-Dihydro-2-hydroxy-1,4-dimethyl-6-oxo-3-pyridinecarbonitrile, 9CI

Extra CAS Registry Numbers(s): 27074-03-9 39621-10-8

Molecular Formula: $C_8H_8N_2O_2$

Molecular Weight: 164.163

Accurate Mass: 164.058578

Percentage Composition: C 58.53%; H 4.91%; N 17.06%; O 19.49%

Physical Description: Cryst. (H₂O)

Melting Point: Mp 275-277°

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Bobbitt, J.M. *et al.*, *J.O.C.*, 1960, **25**, 560-564, (*nitrile*)
Lounasmaa, M. *et al.*, *Tetrahedron*, 1977, **33**, 113-117, (*synth, ir, ms, nitrile*)
Kato, T. *et al.*, *J. Het. Chem.*, 1978, **15**, 1475, (*Et ester*)
Deval, S. *et al.*, *Indian J. Chem., Sect. B*, 1982, **21**, 1056-1058, (*synth, ir, pmr, nitrile*)
Sato, M. *et al.*, *J. Het. Chem.*, 1983, **20**, 87-91, (*synth, derivs*)
Konno, K. *et al.*, *Heterocycles*, 1990, **30**, 247, (*synth, nitrile*)
Dyachenko, V.D. *et al.*, *Zh. Obshch. Khim.*, 1990, **60**, 2384-2392; *J. Gen. Chem. USSR (Engl. Transl.)*, 1990, **60**, 2131-2138, (*synth, nitrile*)