



>>Entry Name: 3-Hydroxy-4-pyridinecarboxylic acid

Synonym(s): 3-Hydroxyisonicotinic acid

CAS Registry Number: 10128-71-9

Molecular Formula: $C_6H_5NO_3$

Molecular Weight: 139.11

Accurate Mass: 139.026944

Percentage Composition: C 51.80%; H 3.62%; N 10.07%; O 34.50%

Physical Description: Leaflets or needles (H_2O)

Melting Point: Mp 317-319 dec.°

pKa Value: pK_{a1} 0.1; pK_{a2} 4.83; pK_{a3} 11.3 (25°, I 0.1 (KCl))

>>Derivative: Ac

CAS Registry Number: 79451-33-5

Molecular Formula: $C_8H_7NO_4$

Molecular Weight: 181.148

Accurate Mass: 181.037509

Percentage Composition: C 53.04%; H 3.89%; N 7.73%; O 35.33%

Melting Point: Mp 226 dec.°

>>Derivative: Me ester

CAS Registry Number: 10128-72-0

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: Cryst. (petrol)

Melting Point: Mp 78-79°

>>Derivative: Et ester

CAS Registry Number: 18342-97-7

Molecular Formula: $C_8H_9NO_3$

Molecular Weight: 167.164

Accurate Mass: 167.058244

Percentage Composition: C 57.48%; H 5.43%; N 8.38%; O 28.71%

Physical Description: Cryst. (petrol)

Melting Point: Mp 42°

Boiling Point: Bp 118°

>>Derivative: 3-O-Me, Me ester

CAS Registry Number: 59786-32-2

Molecular Formula: $C_8H_9NO_3$

Molecular Weight: 167.164

Accurate Mass: 167.058244

Percentage Composition: C 57.48%; H 5.43%; N 8.38%; O 28.71%

Physical Description: Cryst. (petrol)

Melting Point: Mp 58°

References:

Novacek, L. *et al.*, *CA*, 1962, **57**, 15067f, (*synth, deriv*)

Crum, J.D. *et al.*, *J. Het. Chem.*, 1966, **3**, 252, (*synth*)

Dejardin, J.-V. *et al.*, *Bull. Soc. Chim. Fr.*, 1976, 530, (*synth*)