



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

Synonym(s): 5-Hydroxynicotinic acid

CAS Registry Number: 27828-71-3

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%

Melting Point: Mp 292-293°

>>Derivative: Me ester

CAS Registry Number: 30766-22-4

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. (H₂O)

Melting Point: Mp 192-193°

>>Derivative: Me ether

CAS Registry Number: 20826-03-3

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: Solid

Melting Point: Mp 235-237°

>>Derivative: Me ether, Me ester

CAS Registry Number: 29681-46-7

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. by subl.

Melting Point: Mp 61-62°

>>Derivative: Me ether, hydrazide

Molecular Formula: $C_7H_9N_3O_2$

Molecular Weight: 167.167

Accurate Mass: 167.069477

Percentage Composition: C 50.30%; H 5.43%; N 25.14%; O 19.14%

Physical Description: Cryst. (MeOH)

>>Derivative: Me ether, nitrile

Synonym(s): 3-Cyano-5-methoxypyridine

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%

Physical Description: Solid

Melting Point: Mp 98-100°

References:

- Urban, R. *et al.*, *Helv. Chim. Acta*, 1964, **44**, 363-379, (*derivs, synth*)
Ueno, J. *et al.*, *Nippon Kagaku Zasshi*, 1967, **88**, 1210, (*synth*)
Grachev, V.T. *et al.*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1977, 2273, (*uv, ir, struct*)
Lezina, V.P. *et al.*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1980, 98; 1981, 2218, (*pmr*)
Radojkovic-Velickovic, M. *et al.*, *J.C.S. Perkin 2*, 1984, 1975, (*synth*)
Khanna, I.K. *et al.*, *J. Med. Chem.*, 2000, **43**, 3168-3185, (*Me ether, nitrile, synth, pmr*)