



>>Entry Name: 3-Methyl-2-pyridinecarboxylic acid, 9CI

Synonym(s): 3-Methylpicolinic acid, 8CI.  $\beta$ -Picoline-2-carboxylic acid

CAS Registry Number: 4021-07-2

Molecular Formula:  $C_7H_7NO_2$

Molecular Weight: 137.138

Accurate Mass: 137.047679

Percentage Composition: C 61.31%; H 5.14%; N 10.21%; O 23.33%

Physical Description: Prisms (EtOH)

Melting Point: Mp 111°

Solubility: V. sol.  $H_2O$

>>Derivative: Me ester

CAS Registry Number: 59718-84-2

Molecular Formula:  $C_8H_9NO_2$

Molecular Weight: 151.165

Accurate Mass: 151.063329

Percentage Composition: C 63.57%; H 6.00%; N 9.27%; O 21.17%

Boiling Point: Bp<sub>15</sub> 102-103°

>>Derivative: Et ester

CAS Registry Number: 58997-10-7

Molecular Formula:  $C_9H_{11}NO_2$

Molecular Weight: 165.191

Accurate Mass: 165.078979

Percentage Composition: C 65.44%; H 6.71%; N 8.48%; O 19.37%

Boiling Point: Bp<sub>9</sub> 108-110°

>>Derivative: Et ester; hydrochloride

Physical Description: Needles (EtOH)

Melting Point: Mp 156-157°

>>Derivative: Nitrile

Synonym(s): 3-Methyl-2-pyridinecarbonitrile, 9CI. 2-Cyano-3-methylpyridine

CAS Registry Number: 20970-75-6

Molecular Formula:  $C_7H_6N_2$

Molecular Weight: 118.138

Accurate Mass: 118.053098

Percentage Composition: C 71.17%; H 5.12%; N 23.71%

Physical Description: Cryst. ( $H_2O$ )

Melting Point: Mp 87-89°

#### References:

Zincke, T. *et al.*, *Annalen*, 1896, **290**, 355-359, (*synth*)

Tatsumi, H., *CA*, 1958, **52**, 18399, (*synth*)

Feely, W.E. *et al.*, *J.A.C.S.*, 1959, **81**, 4004

Min, R.S. *et al.*, *CA*, 1976, **84**, 150463, (*synth*)

Clarke, K. *et al.*, *J.C.S. Perkin I*, 1984, 1501, (*deriv, synth*)

Renslo, A.R. *et al.*, *J.O.C.*, 1998, **63**, 7840-7850, (*Me ester, synth, ir, pmr, cmr*)

Dunn, A.D. *et al.*, *Org. Prep. Proced. Int.*, 1999, **31**, 120-123, (*Me ester, nitrile*)