



>>Entry Name: 3,5-Dimethyl-2-pyridinecarboxylic acid

Synonym(s): 3,5-Dimethylpicolinic acid. 3,5-Lutidine-2-carboxylic acid

CAS Registry Number: 4733-68-0

Extra CAS Registry Numbers(s): 117213-58-8

Structure by analogy with 2,3-Dimethyl-4-pyridinecarboxylic acid, [GDQ08-Q](#)

Molecular Formula: C₈H₉NO₂

Molecular Weight: 151.165

Accurate Mass: 151.063329

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

Physical Description: Cryst. (CCl₄)

Melting Point: Mp 150-151°

>>Derivative: Me ester

CAS Registry Number: 70580-30-2

Molecular Formula: C₉H₁₁NO₂

Molecular Weight: 165.191

Accurate Mass: 165.078979

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

Physical Description: Solid (petrol)

Melting Point: Mp 42-43°

>>Derivative: Me ester; hydrochloride

CAS Registry Number: 70580-31-3

Physical Description: Cryst. (Me₂CO)

Melting Point: Mp 128-129°

>>Derivative: Et ester

CAS Registry Number: 80206-41-3

Molecular Formula: C₁₀H₁₃NO₂

Molecular Weight: 179.218

Accurate Mass: 179.094629

Percentage Composition: C 67.02%; H 7.31%; N 7.82%; O 17.85%

Boiling Point: Bp_{0.01} 90-100°

>>Derivative: Amide

Molecular Formula: C₈H₁₀N₂O

Molecular Weight: 150.18

Accurate Mass: 150.079313

Percentage Composition: C 63.98%; H 6.71%; N 18.65%; O 10.65%

Melting Point: Mp 146-148°

>>Derivative: Nitrile

Synonym(s): 2-Cyano-3,5-dimethylpyridine

CAS Registry Number: 7584-09-0

Molecular Formula: C₈H₈N₂

Molecular Weight: 132.165

Accurate Mass: 132.068748

Percentage Composition: C 72.70%; H 6.10%; N 21.20%

Physical Description: Cryst. (hexane)

Melting Point: Mp 56-58°

References:

Dürkopf, E. *et al.*, *Ber.*, 1890, **23**, 685

Takahashi, K. *et al.*, *J. Het. Chem.*, 1978, **15**, 893-896, (*synth, nitrile, ir*)

Blank, B. *et al.*, *J. Med. Chem.*, 1979, **22**, 840-844, (*synth, Me ester*)

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