



>>Entry Name: 5-Amino-2-pyridinecarboxylic acid, 9CI

Synonym(s): 5-Aminopicolinic acid

CAS Registry Number: 24242-20-4

Molecular Formula:  $C_6H_6N_2O_2$

Molecular Weight: 138.126

Accurate Mass: 138.042928

Percentage Composition: C 52.17%; H 4.38%; N 20.28%; O 23.17%

Melting Point: Mp 218-219°. Mp 222-223°

>>Derivative: Et ester

Molecular Formula:  $C_8H_{10}N_2O_2$

Molecular Weight: 166.179

Accurate Mass: 166.074228

Percentage Composition: C 57.82%; H 6.07%; N 16.86%; O 19.26%

Melting Point: Mp 131-132°

>>Derivative: 5-N-Ac

Molecular Formula:  $C_8H_8N_2O_3$

Molecular Weight: 180.163

Accurate Mass: 180.053493

Percentage Composition: C 53.33%; H 4.48%; N 15.55%; O 26.64%

Melting Point: Mp 220-221°

>>Derivative: Amide

CAS Registry Number: 145255-19-2

Molecular Formula:  $C_6H_7N_3O$

Molecular Weight: 137.141

Accurate Mass: 137.058912

Percentage Composition: C 52.55%; H 5.14%; N 30.64%; O 11.67%

Physical Description: Powder

>>Derivative: Nitrile

Synonym(s): 5-Amino-2-cyanopyridine

CAS Registry Number: 55338-73-3

Molecular Formula:  $C_6H_5N_3$

Molecular Weight: 119.126

Accurate Mass: 119.048347

Percentage Composition: C 60.50%; H 4.23%; N 35.27%

Physical Description: Brown powder

#### References:

Schmidt-Thomé, J. *et al.*, *Z. Physiol. Chem.*, 1951, **288**, 237

Deady, L.W. *et al.*, *Aust. J. Chem.*, 1971, **24**, 385, (*synth*)

Takemoto, T. *et al.*, *J. Med. Chem.*, 1994, **37**, 18, (*nitrile, amide*)