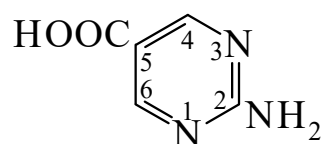




>>Entry Name: 2-Amino-5-pyrimidinecarboxylic acid



CAS Registry Number: 3167-50-8

Molecular Formula: C₅H₅N₃O₂

Molecular Weight: 139.113

Accurate Mass: 139.038177

Percentage Composition: C 43.17%; H 3.62%; N 30.21%; O 23.00%

Physical Description: Needles (H₂O)

Melting Point: Mp 300°

>>Derivative: Et ester

Molecular Formula: C₇H₉N₃O₂

Molecular Weight: 167.167

Accurate Mass: 167.069477

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

Physical Description: Needles (H₂O)

Melting Point: Mp 147-149°

>>Derivative: Nitrile

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

Molecular Formula: C₅H₄N₄

Molecular Weight: 120.113

Accurate Mass: 120.043596

Percentage Composition: C 50.00%; H 3.36%; N 46.64%

Physical Description: Prisms (EtOH)

Melting Point: Mp 260° (dec.)

References:

Ballard, E. *et al.*, *J.A.C.S.*, 1942, **64**, 794, (*synth, Et ester*)

English, J.P. *et al.*, *J.A.C.S.*, 1946, **68**, 1039, (*nitrile, synth*)

Takamizawa, A. *et al.*, *Chem. Pharm. Bull.*, 1964, **12**, 804, (*synth, Et ester*)

Takamizawa, A. *et al.*, *J.O.C.*, 1964, **29**, 1740, (*nitrile, synth, uv, ir*)

Schenone, P. *et al.*, *J. Het. Chem.*, 1990, **27**, 295, (*synth, uv, ir, pmr*)