



>>Entry Name: 2-Amino-4,6-dimethylpyrimidine

ENTRY UNDER REVIEW

Synonym(s): 4,6-Dimethyl-2-pyrimidinamine, 9CI

CAS Registry Number: 767-15-7

Molecular Formula: C₆H₉N₃

Molecular Weight: 123.157

Accurate Mass: 123.079647

Percentage Composition: C 58.52%; H 7.37%; N 34.12%

Physical Description: Cryst. (H₂O)

Melting Point: Mp 153° (149-150°)

Solubility: Mod. sol. H₂O, EtOH; insol. Et₂O

Other Data: Distils undec.

Aldrich: A5200-5

Fluka: 7850

Sigma: A5004

>>Derivative: 2-*N*-Ac

CAS Registry Number: 15755-12-1

Molecular Formula: C₈H₁₁N₃O

Molecular Weight: 165.194

Accurate Mass: 165.090212

Percentage Composition: C 58.17%; H 6.71%; N 25.44%; O 9.69%

Melting Point: Mp 124°

Rare Chemicals Library: S84385-7

>>Derivative: 2-*N*-Me

CAS Registry Number: 15231-64-8

Molecular Formula: C₇H₁₁N₃

Molecular Weight: 137.184

Accurate Mass: 137.095297

Percentage Composition: C 61.29%; H 8.08%; N 30.63%

Physical Description: Cryst. (petrol)

Melting Point: Mp 98°

>>Derivative: 2-*N*-Ph

Synonym(s): 2-Anilino-4,6-dimethylpyrimidine. **Pyrimethanil**, BSI. Mythos. Scala. SN 100309. ZK 100309

CAS Registry Number: 53112-28-0

Molecular Formula: C₁₂H₁₃N₃

Molecular Weight: 199.255

Accurate Mass: 199.110947

Percentage Composition: C 72.34%; H 6.58%; N 21.09%

Use/Importance: Fungicide used on grape vines

Biological Use/Importance: Fungicide

Physical Description: Cryst. (toluene)

Melting Point: Mp 88-89°

Hazard & Toxicity: LD₅₀ (rat, orl) 4150-5971 mg/kg

References:

Aldrich Library of NMR Spectra, 2nd edn., 1983, **2**, 701D, (*nmr*)

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **2**, 822D, (*ir*)

Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 1555A, (*ir*)

Hale, W.J. *et al.*, *J.A.C.S.*, 1918, **40**, 1046, (*synth*)

Short, L.N. *et al.*, *J.C.S.*, 1952, 168, (*ir*)

Alberola, A. *et al.*, *Synth. Commun.*, 1987, **17**, 1309, (*synth*)

Neumann, G.L. *et al.*, *Brighton Crop Prot. Conf. - Pests Dis.*, 1992, **1**, 395-402, (*pyrimethanil*)

Cobras, P. *et al.*, *J. Agric. Food Chem.*, 1997, **45**, 2708-2710, (*pyrimethanil, detn*)

Pesticide Manual, 12th edn., 2000, No. 674, (*Pyrimethanil*)