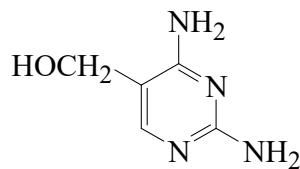




>>Entry Name: **2,4-Diamino-5-pyrimidinemethanol**
Synonym(s): 2,4-Diamino-5-(hydroxymethyl)pyrimidine



CAS Registry Number: 42310-45-2

Molecular Formula: C₅H₈N₄O
Molecular Weight: 140.144
Accurate Mass: 140.069811
Percentage Composition: C 42.85%; H 5.75%; N 39.98%; O 11.42%
General Statement: This structure ascribed to another compound in the early literature
Physical Description: Cryst. (H₂O)
Melting Point: Mp 234-236° (dec.)

>>Derivative: Picrate

Melting Point: Mp 243-244° (dec.)

>>Derivative: 2-*N*-Me

Molecular Formula: C₆H₁₀N₄O
Molecular Weight: 154.171
Accurate Mass: 154.085461
Percentage Composition: C 46.74%; H 6.54%; N 36.34%; O 10.38%
Physical Description: Cryst. (2-propanol)
Melting Point: Mp 142-144°

>>Derivative: 2-*N*-Et

Molecular Formula: C₇H₁₂N₄O
Molecular Weight: 168.198
Accurate Mass: 168.101111
Percentage Composition: C 49.99%; H 7.19%; N 33.31%; O 9.51%
Physical Description: Cryst. (CHCl₃)
Melting Point: Mp 133-136°

>>Derivative: 2-*N*-Propyl

Molecular Formula: C₈H₁₄N₄O
Molecular Weight: 182.225
Accurate Mass: 182.116761
Percentage Composition: C 52.73%; H 7.74%; N 30.75%; O 8.78%
Physical Description: Cryst. (C₆H₆)
Melting Point: Mp 144°

>>Derivative: Me ether

Synonym(s): 2,4-Diamino-5-(methoxymethyl)pyrimidine

CAS Registry Number: 54236-98-5
Molecular Formula: C₆H₁₀N₄O
Molecular Weight: 154.171
Accurate Mass: 154.085461
Percentage Composition: C 46.74%; H 6.54%; N 36.34%; O 10.38%
Physical Description: Cryst. (MeOH)
Melting Point: Mp 174-176°
Other: Hüls

References:

Nairn, J.G. *et al.*, *J.O.C.*, 1960, **25**, 1127; 1257, (*synth, uv*)
U.K. Pat., 1975, 1 413 472; *CA*, **84**, 90173v, (*synth*)
U.S. Pat., 1979, 4 413 227; *CA*, **90**, 204133p, (*Me ether, synth*)
Stuart, A. *et al.*, *J. Med. Chem.*, 1983, **26**, 667, (*synth*)