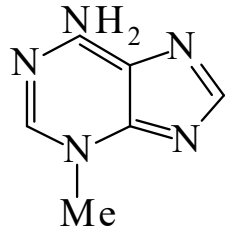
>>**Entry Name: 6-Amino-3-methylpurine**
Synonym(s): 3-Methyl-3*H*-purin-6-amine, 9CI. 3-Methyladenine, 8CI



CAS Registry Number: 5142-23-4

Molecular Formula: $C_6H_7N_5$
Molecular Weight: 149.155
Accurate Mass: 149.070145
Percentage Composition: C 48.32%; H 4.73%; N 46.95%
Biological Source: Metab. from the marine sponge *Topsentia genitrix*
Physical Description: Cryst. (H_2O)
Melting Point: Mp 300° (291-292° dec.)
pKa Value: pK_a 6.1
UV: [neutral] λ_{max} 273 (ε 14000) (MeOH) (Derep) [neutral] λ_{max} 273 (ε 14010) (MeOH) (Berdy)

Aldrich: 28087-9
Fluka: 8592
Sigma: M9281

>>**Derivative:** 9-β-D-Ribofuranosyl
Synonym(s): 3-Methyladenosine

CAS Registry Number: 72055-63-1
Molecular Formula: $C_{11}H_{15}N_5O_4$
Molecular Weight: 281.271
Accurate Mass: 281.112405
Percentage Composition: C 46.97%; H 5.38%; N 24.90%; O 22.75%
Physical Description: Plates (MeOH) (as tosylate salt)
Melting Point: Mp 150 dec.° (tosylate salt)
Optical Rotation: $[\alpha]_D^{20}$ –28.2 (c, 1.00 in H_2O) (tosylate salt)
Other Data: Imino at C-6

>>**Derivative:** 9-(2-Deoxy-β-D-ribofuranosyl)
Synonym(s): 2'-Deoxy-3-methyladenosine

CAS Registry Number: 76227-26-4
Molecular Formula: $C_{11}H_{15}N_5O_3$
Molecular Weight: 265.271
Accurate Mass: 265.11749
Percentage Composition: C 49.81%; H 5.70%; N 26.40%; O 18.09%
Physical Description: Powder (as tosylate salt)
Melting Point: Mp 120 dec.° (tosylate salt)
Other Data: Imino at C-6

>>**Derivative:** 7-Oxide

Molecular Formula: $C_6H_7N_5O$
Molecular Weight: 165.154
Accurate Mass: 165.06506
Percentage Composition: C 43.64%; H 4.27%; N 42.40%; O 9.69%
Physical Description: Sl. dark prisms
Melting Point: Mp 250-260° (dec.)

References: