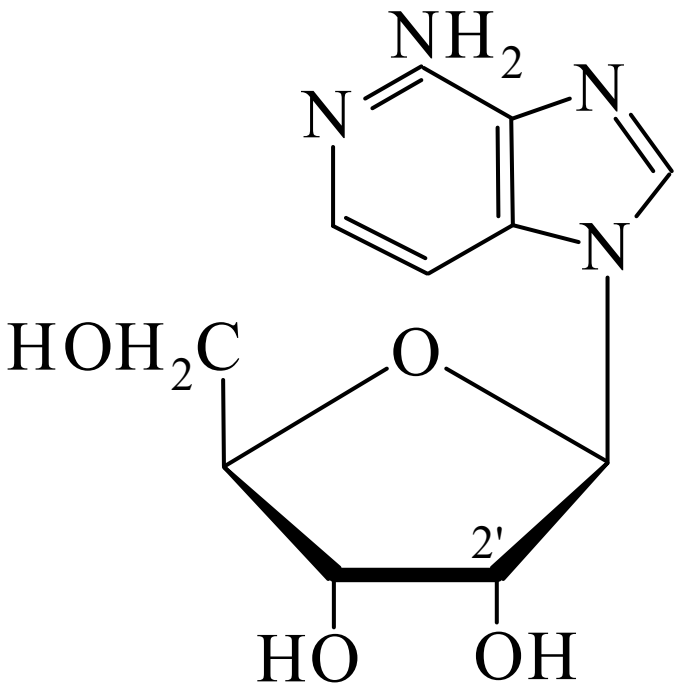
>>**Entry Name: 4-Amino-1-ribofuranosyl-1*H*-imidazo[4,5-*c*]pyridine,** 9CI, 8CI



Related CAS Registry Numbers(s): 78582-17-9
Molecular Formula: $C_{11}H_{14}N_4O_4$
Molecular Weight: 266.256
Accurate Mass: 266.101506
Percentage Composition: C 49.62%; H 5.30%; N 21.04%; O 24.04%

>>**Variant:** β-D-form
Synonym(s): 3-Deazaadenosine

CAS Registry Number: 6736-58-9

Molecular Formula: $C_{11}H_{14}N_4O_4$
Molecular Weight: 266.256
Accurate Mass: 266.101506
Percentage Composition: C 49.62%; H 5.30%; N 21.04%; O 24.04%
Melting Point: Mp 229-231°
Optical Rotation: $[\alpha]_D^{27}$ –48.3 (c, 1.03 in H_2O)
Other Data: λ_{max} 267-80 (ε 9 500), 262 (10 300) (pH 1); 265 nm (10 800) (pH 11)
Sigma: D8296

>>**Derivative:** 2'-Deoxy
Synonym(s): 3-Deaza-2'-deoxyadenosine

CAS Registry Number: 78582-15-7

Molecular Formula: $C_{11}H_{14}N_4O_3$
Molecular Weight: 250.257
Accurate Mass: 250.106591
Percentage Composition: C 52.79%; H 5.64%; N 22.39%; O 19.18%
Melting Point: Mp 206 dec.° (215°)
Optical Rotation: $[\alpha]_D^{20}$ –25.5 (c, 1 in DMF)
pKa Value: pK_a 6.8 (25°, H_2O)

>>**Derivative:** 5'-Deoxy
Synonym(s): 3-Deaza-5'-deoxyadenosine

CAS Registry Number: 98858-09-4

Molecular Formula: $C_{11}H_{14}N_4O_3$
Molecular Weight: 250.257
Accurate Mass: 250.106591
Percentage Composition: C 52.79%; H 5.64%; N 22.39%; O 19.18%
Physical Description: Cryst. $+1H_2O$
Melting Point: Mp 140°
Optical Rotation: $[\alpha]_D^{20}$ –31.9 (c, 0.5 in DMF)

References: