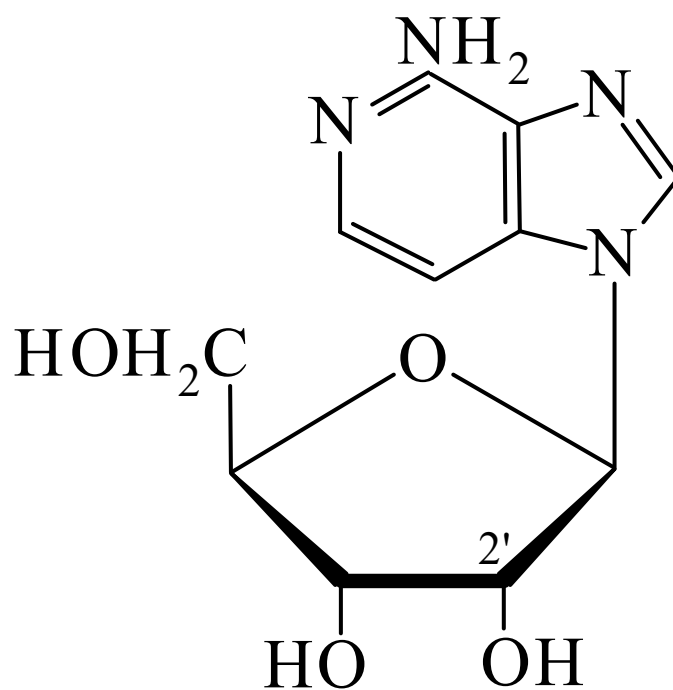




>>Entry Name: 4-Amino-1-ribofuranosyl-1*H*-imidazo[4,5-*c*]pyridine, 9Cl, 8Cl



Related CAS Registry Numbers(s): 78582-17-9

Molecular Formula: C₁₁H₁₄N₄O₄

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: C₁₁H₁₄N₄O₄

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: $[\alpha]_{\text{D}}^{27} -48.3$ (c, 1.03 in H₂O)

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: C₁₁H₁₄N₄O₃

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: $[\alpha]_{\text{D}}^{20} -25.5$ (c, 1 in DMF)

pKa Value: pK_a 6.8 (25°, H₂O)

>>Derivative: 5'-Deoxy

Synonym(s): 3-Deaza-5'-deoxyadenosine

CAS Registry Number: 98858-09-4

Molecular Formula: C₁₁H₁₄N₄O₃

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. +1H₂O

Melting Point: Mp 140°

Optical Rotation: $[\alpha]_{\text{D}}^{20} -31.9$ (c, 0.5 in DMF)

References: