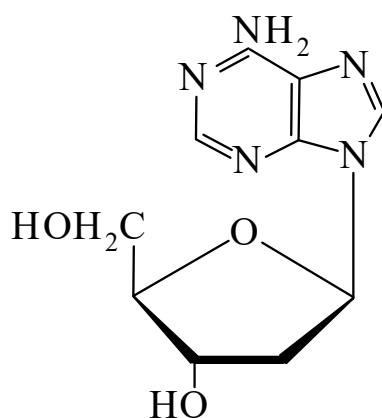




>>Entry Name: **2'-Deoxyadenosine**, 9Cl, 8Cl

Synonym(s): 9-(2-Deoxy-β-D-*erythro*-pentofuranosyl)adenine, 9Cl. Adenine deoxyriboside



CAS Registry Number: 958-09-8

Related CAS Registry Numbers(s): 16373-93-6

Molecular Formula: C₁₀H₁₃N₅O₃

Molecular Weight: 251.244

Accurate Mass: 251.10184

Percentage Composition: C 47.81%; H 5.22%; N 27.87%; O 19.10%

Biological Source: A common component of deoxyribonucleic acid

Melting Point: Mp 187-192°

Optical Rotation: [α]_D²⁰ -27 (c, 0.4 in H₂O)

Solubility: BERDY SOL: Sol. H₂O

pKa Value: pK_a 3.79 (20°)

UV: [neutral] λ_{max} 260 (ε 15220) (H₂O)

Sigma: J5266

>>Derivative: 3'-Phosphate

Synonym(s): 2'-Deoxy-3'-adenylic acid

CAS Registry Number: 15731-72-3

Molecular Formula: C₁₀H₁₄N₅O₆P

Molecular Weight: 331.224

Accurate Mass: 331.068172

Percentage Composition: C 36.26%; H 4.26%; N 21.14%; O 28.98%; P 9.35%

Physical Description: Trihydrate (as Ca salt)

Optical Rotation: [α]_D¹⁹ -10.8 (c, 0.46 in H₂O)

UV: [neutral] λ_{max} 260 (ε 14450) (H₂O)

Sigma: D3014

>>Derivative: 5'-Phosphate

Synonym(s): 2'-Deoxy-5'-adenylic acid

CAS Registry Number: 653-63-4

Molecular Formula: C₁₀H₁₄N₅O₆P

Molecular Weight: 331.224

Accurate Mass: 331.068172

Percentage Composition: C 36.26%; H 4.26%; N 21.14%; O 28.98%; P 9.35%

Physical Description: Dihydrate (as Ca salt)

Optical Rotation: [α]_D¹⁹ -26 (c, 0.38 in H₂O)

UV: [neutral] λ_{max} 260 (ε 13600) (H₂O)

Sigma: D6375