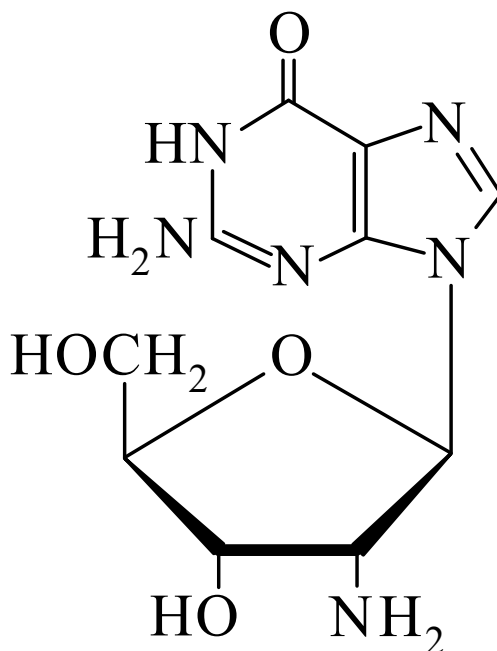




>>Entry Name: 2'-Amino-2'-deoxyguanosine, 9Cl

Synonym(s): 9-(2-Amino-2-deoxy-β-D-ribofuranosyl)guanine. 2AG



CAS Registry Number: 60966-26-9

Molecular Formula: C₁₀H₁₄N₆O₄

Molecular Weight: 282.258

Accurate Mass: 282.107654

Percentage Composition: C 42.55%; H 5.00%; N 29.77%; O 22.67%

Biological Source: Isol. from *Enterobacter cloacae*

Use/Importance: Possesses antitumour and limited antibacterial activity

Physical Description: Needles + ½ H₂O (H₂O)

Melting Point: Mp 252-254 dec.°

Optical Rotation: [α]_D²⁶ -56.6 (c, 0.5 in H₂O)

Solubility: BERDY SOL: Sol. H₂O; poorly sol. butanol, hexane

UV: [acid] λ_{max} 256 (ε 12700); 280 (sh) (ε 8800) (pH 2) (Derep) [base] λ_{max} 256 (ε 12000); 268 (ε 12100) (pH 12) (Derep) [neutral] λ_{max} 252 (ε 13900); 275 (sh) (ε 9500) (H₂O at pH 7) (Derep) [neutral] λ_{max} 253 (ε 14200) (H₂O) (Berdy) [acid] λ_{max} 256 (ε 12800) (HCl) (Berdy) [base] λ_{max} 258 (ε 11900) (NaOH) (Berdy) λ_{max} 255 (ε 13000) (-12) (Berdy)

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