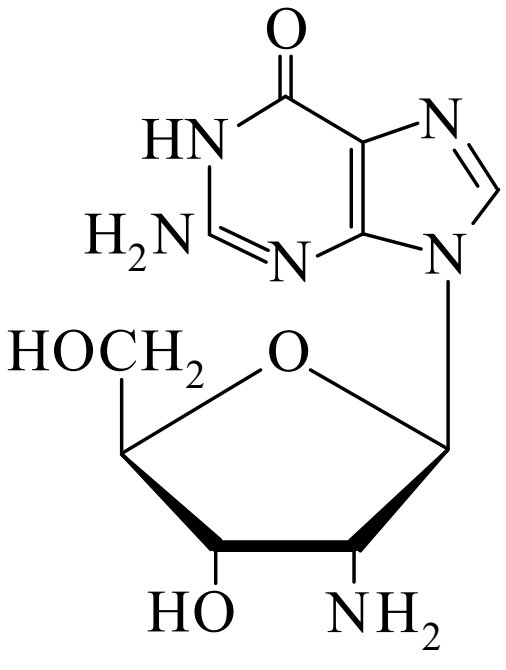
>>**Entry Name: 2'-Amino-2'-deoxyguanosine,** 9CI

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



CAS Registry Number: 60966-26-9

Molecular Formula: $C_{10}H_{14}N_6O_4$
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 H_2O (H_2O)
Melting Point: Mp 252-254 dec.°
Optical Rotation: $[\alpha]_D^{26}$–56.6 (c, 0.5 in H_2O)
Solubility: BERDY SOL: Sol. H_2O; 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) (H_2O at pH 7) (Derep) [neutral] λ_{max} 253 (ε 14200) (H_2O) (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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