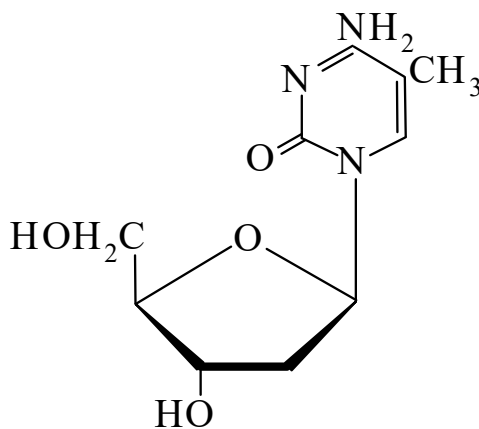




>>Entry Name: 2'-Deoxy-5-methylcytidine, 9Cl, 8Cl

Synonym(s): 1-(2-Deoxy-β-D-*erythro*-pentofuranosyl)-5-methylcytosine. 5-Methylcytosine deoxyriboside



CAS Registry Number: 838-07-3

Molecular Formula: C₁₀H₁₅N₃O₄

Molecular Weight: 241.246

Accurate Mass: 241.106257

Percentage Composition: C 49.79%; H 6.27%; N 17.42%; O 26.53%

Biological Source: Isol. from wheat-germ deoxyribonucleic acid

Melting Point: Mp 211-212°

Optical Rotation: [α]_D²²+43 (c, 1.4 in H₂O)

Other Data: λ_{max} 286.5 (ε 12 400), 212 (ε 11 800) (0.1N HCl); 279 nm (8 770) (0.1N NaOH)

Aldrich: 32497-3

Sigma: M3155

>>Derivative: Hydrochloride

Melting Point: Mp 148-150° (156°)

Optical Rotation: [α]_D²³+54 (c, 1.0 in 0.1N HCl)

>>Derivative: Picrate

Melting Point: Mp 175-178 dec.°

>>Derivative: N⁴-Me

CAS Registry Number: 25406-44-4

Molecular Formula: C₁₁H₁₇N₃O₄

Molecular Weight: 255.273

Accurate Mass: 255.121907

Percentage Composition: C 51.76%; H 6.71%; N 16.46%; O 25.07%

Physical Description: Cryst. (EtOAc)

Melting Point: Mp 188-190°

>>Derivative: N⁴-Et

CAS Registry Number: 25406-43-3

Molecular Formula: C₁₂H₁₉N₃O₄

Molecular Weight: 269.3

Accurate Mass: 269.137557

Percentage Composition: C 53.52%; H 7.11%; N 15.60%; O 23.76%

Physical Description: Cryst. (EtOAc)

Melting Point: Mp 100-102°