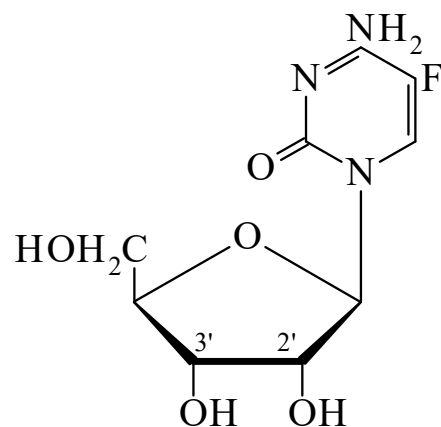




>>Entry Name: 5-Fluorocytidine



CAS Registry Number: 2341-22-2

Molecular Formula: C₉H₁₂FN₃O₅

Molecular Weight: 261.209

Accurate Mass: 261.0761

Percentage Composition: C 41.38%; H 4.63%; F 7.27%; N 16.09%; O 30.63%

Physical Description: Cryst. (EtOH)

Melting Point: Mp 193-193.5°

>>Derivative: 2'-Deoxy

Synonym(s): 2'-Deoxy-5-fluorocytidine, 9Cl, 8Cl

CAS Registry Number: 10356-76-0

Molecular Formula: C₉H₁₂FN₃O₄

Molecular Weight: 245.21

Accurate Mass: 245.081185

Percentage Composition: C 44.08%; H 4.93%; F 7.75%; N 17.14%; O 26.10%

Physical Description: Cryst. (EtOH)

Melting Point: Mp 195-196.5°

Optical Rotation: [α]_D²⁶+66 (c, 2.5 in H₂O)

Hazard & Toxicity: LD₅₀ (rat, ipr) 2000 mg/kg. Exp. reprod. and teratogenic effects

>>Derivative: 3'-Deoxy

Synonym(s): 3'-Deoxy-5-fluorocytidine. 5-Fluoro-3'-deoxycytidine

Molecular Formula: C₉H₁₂FN₃O₄

Molecular Weight: 245.21

Accurate Mass: 245.081185

Percentage Composition: C 44.08%; H 4.93%; F 7.75%; N 17.14%; O 26.10%

Physical Description: Cryst. (EtOH)

Melting Point: Mp 194-195°

Other Data: $\lambda_{\max}$ 238 (ϵ 7600); 289 (7700) (H₂O)

>>Derivative: 2',3'-Dideoxy

Synonym(s): 2',3'-Dideoxy-5-fluorocytidine

CAS Registry Number: 107036-62-4

Molecular Formula: C₉H₁₂FN₃O₃

Molecular Weight: 229.21

Accurate Mass: 229.08627

Percentage Composition: C 47.16%; H 5.28%; F 8.29%; N 18.33%; O 20.94%

Physical Description: Solid

Melting Point: Mp 155-160° (softens at 100°)

References: