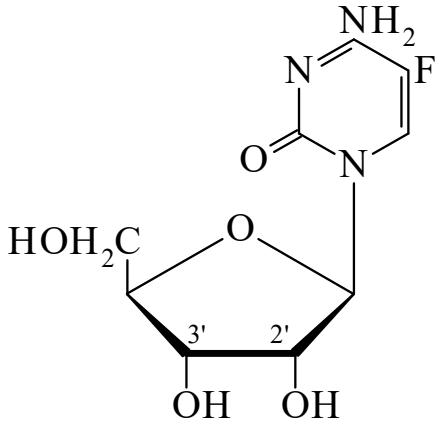
>>**Entry Name: 5-Fluorocytidine**



CAS Registry Number: 2341-22-2

Molecular Formula: $C_9H_{12}FN_3O_5$
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: $C_9H_{12}FN_3O_4$
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: $[\alpha]_D^{26}$+66 (c, 2.5 in H_2O)
Hazard & Toxicity: LD_{50} (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: $C_9H_{12}FN_3O_4$
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: λ_{max} 238 (ε 7600); 289 (7700) (H_2O)

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

CAS Registry Number: 107036-62-4

Molecular Formula: $C_9H_{12}FN_3O_3$
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: