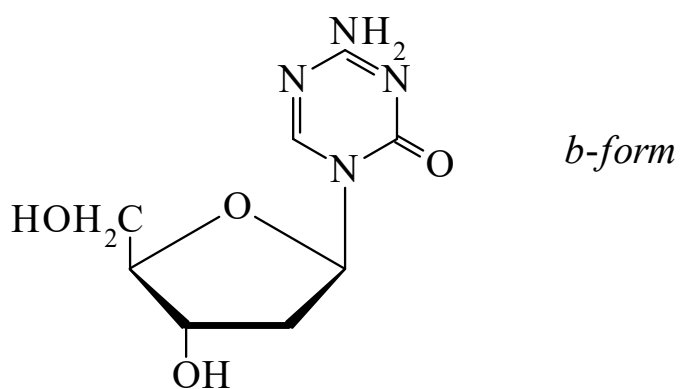




>>Entry Name: 2'-Deoxy-5-azacytidine

Synonym(s): 5-Aza-2'-deoxycytidine



Molecular Formula: C₈H₁₂N₄O₄

Molecular Weight: 228.207

Accurate Mass: 228.085856

Percentage Composition: C 42.11%; H 5.30%; N 24.55%; O 28.04%

Calculated Log P Data: Log P -3.65 (calc)

>>Variant: α-form

CAS Registry Number: 22432-95-7

Molecular Formula: C₈H₁₂N₄O₄

Molecular Weight: 228.207

Accurate Mass: 228.085856

Percentage Composition: C 42.11%; H 5.30%; N 24.55%; O 28.04%

Physical Description: Cryst. (MeOH)

Melting Point: Mp 181°

Optical Rotation: [α]_D²⁹ -40.8 (c, 1 in H₂O)

>>Variant: β-form

Synonym(s): Decitabine, BAN, INN, USAN, NSC 127716

CAS Registry Number: 2353-33-5

Molecular Formula: C₈H₁₂N₄O₄

Molecular Weight: 228.207

Accurate Mass: 228.085856

Percentage Composition: C 42.11%; H 5.30%; N 24.55%; O 28.04%

Use/Importance: Antineoplastic agent; inhibits DNA methylation

Physical Description: Cryst. + 1H₂O

Melting Point: Mp 191 dec.°

Optical Rotation: [α]_D²⁹ +63.8 (c, 1 in H₂O)

Other Data: Hygroscopic

Hazard & Toxicity: LD₅₀ (mus, ivn) 22 mg/kg. Mutagenic props.

Fluka: 11390

Sigma: A9585

References:

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