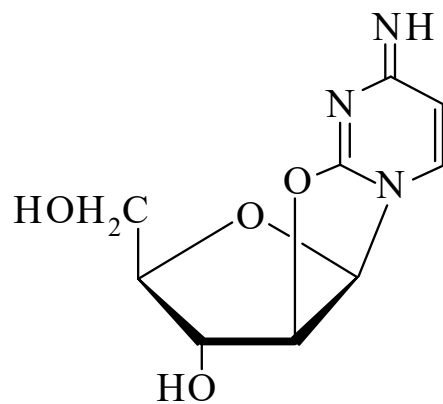




>>Entry Name: Cyclocytidine

Synonym(s): 2,3,3*a*,9*a*-Tetrahydro-3-hydroxy-6-imino-6*H*-furo[2',3':4,5]oxazolo[3,2-*a*]pyrimidine-2-methanol, 9Cl. 2,2'-Anhydro-1-arabinofuranosylcytosine, 8Cl. **Ancitabine**, INN. Ancytabine. NSC 129220. Cyclo-C



CAS Registry Number: 31698-14-3

Molecular Formula: C₉H₁₁N₃O₄

Molecular Weight: 225.204

Accurate Mass: 225.074957

Percentage Composition: C 48.00%; H 4.92%; N 18.66%; O 28.42%

Use/Importance: Antineoplastic agent with antiviral activity

Hazard & Toxicity: Exp. teratogen. LD₅₀ (mus, orl) 3400 mg/kg

>>Derivative: Hydrochloride

Synonym(s): Ancitabine hydrochloride, JAN. KJ 101. NSC 145668

CAS Registry Number: 10212-25-6

Physical Description: Needles (MeOH/Me₂CO)

Melting Point: Mp 266-267 dec.°

Optical Rotation: [α]_D²³ -22.6 (c, 0.2 in H₂O)

Aldrich: 85883-8

Sigma: A8393

>>Derivative: Hydrobromide

Physical Description: Needles (MeOH)

Melting Point: Mp 263-265 dec.°

>>Derivative: Acetate

Physical Description: Cream needles (MeOH/Et₂O)

Melting Point: Mp 190-192 dec.°

>>Derivative: Picrate

Physical Description: Yellow needles (EtOH)

Melting Point: Mp 218-221°

References: