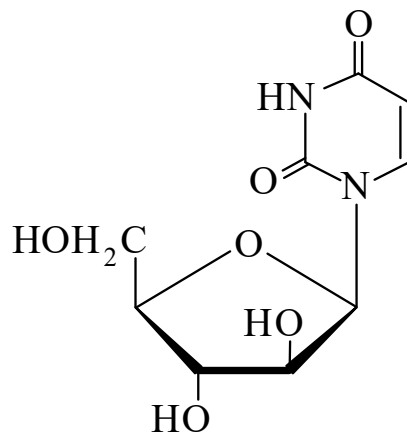




>>Entry Name: Arauridine

Synonym(s): 1-β-D-Arabinofuranosyl-2,4(1*H*,3*H*)-pyrimidinedione, 9Cl. 1-β-D-Arabinofuranosyluracil. **Spongouridine**. Ara-U



CAS Registry Number: 3083-77-0

Molecular Formula: C₉H₁₂N₂O₆

Molecular Weight: 244.204

Accurate Mass: 244.069538

Percentage Composition: C 44.27%; H 4.95%; N 11.47%; O 39.31%

Use/Importance: Drug intermed.

Physical Description: Cryst. (MeOH)

Melting Point: Mp 220-221° (226-228°)

Optical Rotation: [α]_D +131.1 (c, 0.63 in H₂O)

Solubility: BERDY SOL: Sol. H₂O

Hazard & Toxicity: Exp. reprod. effects

Fluka: 94225

Sigma: U5377

>>Derivative: 2',3'-Di-Ac

CAS Registry Number: 21016-88-6

Molecular Formula: C₁₃H₁₆N₂O₈

Molecular Weight: 328.278

Accurate Mass: 328.090668

Percentage Composition: C 47.56%; H 4.91%; N 8.53%; O 38.99%

Melting Point: Mp 168-169°

>>Derivative: 3',5'-Di-Ac

CAS Registry Number: 25383-79-3

Molecular Formula: C₁₃H₁₆N₂O₈

Molecular Weight: 328.278

Accurate Mass: 328.090668

Percentage Composition: C 47.56%; H 4.91%; N 8.53%; O 38.99%

Physical Description: Cryst. (C₆H₆/hexane)

Melting Point: Mp 78-79°

Other Data: λ_{max} 258 nm (ε 10 000) (MeOH)

>>Derivative: 2',3',5'-Tri-Ac

CAS Registry Number: 14057-18-2

Molecular Formula: C₁₅H₁₈N₂O₉

Molecular Weight: 370.315

Accurate Mass: 370.101233

Percentage Composition: C 48.65%; H 4.90%; N 7.56%; O 38.88%

Physical Description: Cryst. (EtOH)

Melting Point: Mp 131-132°

Optical Rotation: [α]_D²⁰ +83.9 (c, 0.5 in MeOH)

Other Data: λ_{max} 259 nm (EtOH)