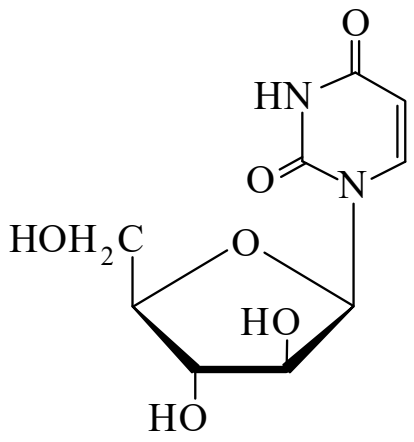
>>**Entry Name: Arauridine**

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



CAS Registry Number: 3083-77-0

Molecular Formula: $C_9H_{12}N_2O_6$
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: $[\alpha]_D$ +131.1 (c, 0.63 in H_2O)
Solubility: BERDY SOL: Sol. H_2O
Hazard & Toxicity: Exp. reprod. effects

Fluka: 94225
Sigma: U5377

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

CAS Registry Number: 21016-88-6

Molecular Formula: $C_{13}H_{16}N_2O_8$
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: $C_{13}H_{16}N_2O_8$
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. (C_6H_6/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: $C_{15}H_{18}N_2O_9$
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: $[\alpha]_D^{20}$+83.9 (c, 0.5 in MeOH)
Other Data: λ_{max} 259 nm (EtOH)