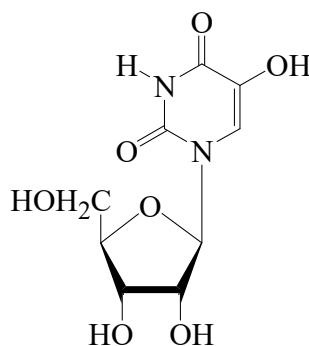




>>Entry Name: 5-Hydroxyuridine, 9CI

Synonym(s): 1-β-D-Ribofuranosylisobarbituric acid, 8CI. Isobarbituridine



CAS Registry Number: 957-77-7

Molecular Formula: C₉H₁₂N₂O₇

Molecular Weight: 260.203

Accurate Mass: 260.064453

Percentage Composition: C 41.54%; H 4.65%; N 10.77%; O 43.04%

Biological Source: Component of RNA

Physical Description: Cryst. (EtOH)

Melting Point: Mp 230-232° (224-225°). Mp 238-241°

UV: [neutral] λ_{max} 280 () (no solvent reported)

>>Derivative: 5-O-Me

Synonym(s): 5-Methoxyuridine

CAS Registry Number: 35542-01-9

Molecular Formula: C₁₀H₁₄N₂O₇

Molecular Weight: 274.23

Accurate Mass: 274.080103

Percentage Composition: C 43.80%; H 5.15%; N 10.22%; O 40.84%

Biological Source: Modified nucleoside found in tRNA's

Physical Description: Prisms (H₂O)

UV: [neutral] λ_{max} 206 (); 278 () (no solvent reported)

>>Derivative: 5-O-(Carboxymethyl)

Synonym(s): Uridine-5-oxyacetic acid

CAS Registry Number: 28144-25-4

Molecular Formula: C₁₁H₁₄N₂O₉

Molecular Weight: 318.24

Accurate Mass: 318.069933

Percentage Composition: C 41.52%; H 4.43%; N 8.80%; O 45.25%

Biological Source: Modified nucleoside found in tRNA's

>>Derivative: 5-O-(Methoxycarbonylmethyl)

Synonym(s): Methyl uridine-5-oxyacetate

CAS Registry Number: 66536-81-0

Extra CAS Registry Numbers(s): 54795-90-3

Molecular Formula: C₁₂H₁₆N₂O₉

Molecular Weight: 332.266

Accurate Mass: 332.085583

Percentage Composition: C 43.38%; H 4.85%; N 8.43%; O 43.34%

Biological Source: Modified nucleoside found in tRNA's

Physical Description: Cryst. (MeOH)

UV: [neutral] λ_{max} 208 (); 275 () (no solvent reported)

References: