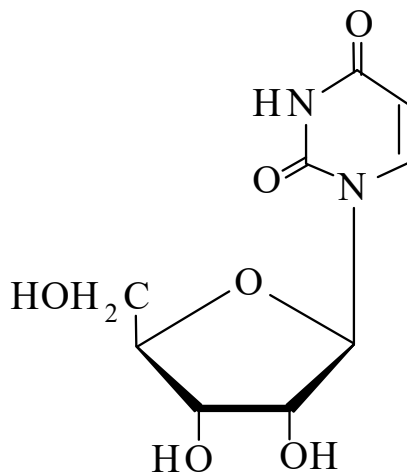




>>Entry Name: Uridine

Synonym(s): 1-β-D-Ribofuranosyl-2,4(1*H*,3*H*)-pyrimidinedione, 9Cl. 1-β-D-Ribofuranosyluracil, 8Cl. NSC 20256



CAS Registry Number: 58-96-8

Related CAS Registry Numbers(s): 19817-91-5

Molecular Formula: C<sub>9</sub>H<sub>12</sub>N<sub>2</sub>O<sub>6</sub>

Molecular Weight: 244.204

Accurate Mass: 244.069538

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

Biological Source: Widely distributed in nature. Prepd. by hydrol. of yeast nucleic acid

Melting Point: Mp 165°

Optical Rotation:  $[\alpha]_D^{20} +4$  (c, 2 in H<sub>2</sub>O)

Other Data:  $\lambda_{\max}$  261 (ε 10 100), 205 nm (9 800) (pH 7.3)

Hazard & Toxicity: LD<sub>50</sub> (mus, ipr) 4335 mg/kg

Aldrich: U288-1

Fluka: 94320

Sigma: U3003

>>Derivative: 3'-Ac

CAS Registry Number: 4873-68-1

Molecular Formula: C<sub>11</sub>H<sub>14</sub>N<sub>2</sub>O<sub>7</sub>

Molecular Weight: 286.241

Accurate Mass: 286.080103

Percentage Composition: C 46.16%; H 4.93%; N 9.79%; O 39.13%

Melting Point: Mp 172-174°

>>Derivative: 5'-Ac

CAS Registry Number: 6773-44-0

Molecular Formula: C<sub>11</sub>H<sub>14</sub>N<sub>2</sub>O<sub>7</sub>

Molecular Weight: 286.241

Accurate Mass: 286.080103

Percentage Composition: C 46.16%; H 4.93%; N 9.79%; O 39.13%

Melting Point: Mp 163-165°

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

CAS Registry Number: 29108-90-5

Molecular Formula: C<sub>13</sub>H<sub>16</sub>N<sub>2</sub>O<sub>8</sub>

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 142-143°