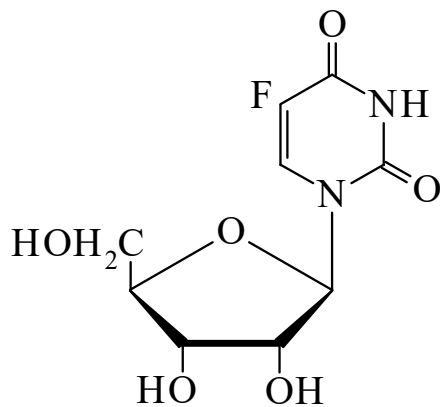




>>Entry Name: 5-Fluorouridine

Synonym(s): 1- α -D-Ribofuranosyl-5-fluoro-2,4(1*H*,3*H*)-pyrimidinedione



CAS Registry Number: 316-46-1

Molecular Formula: C₉H₁₁FN₂O₆

Molecular Weight: 262.194

Accurate Mass: 262.060116

Percentage Composition: C 41.23%; H 4.23%; F 7.25%; N 10.68%; O 36.61%

Use/Importance: Antineoplastic agent

Melting Point: Mp 151-154°. Mp 184-185° (181-182°) (dimorph.)

Optical Rotation: [α]_D²⁶+17 (c, 2 in H₂O)

Aldrich: 32937-1

Fluka: 47580

Sigma: F5130

>>Derivative: 2'-Me

CAS Registry Number: 61671-80-5

Molecular Formula: C₁₀H₁₃FN₂O₆

Molecular Weight: 276.221

Accurate Mass: 276.075766

Percentage Composition: C 43.48%; H 4.74%; F 6.88%; N 10.14%; O 34.75%

Physical Description: Needles

Melting Point: Mp 151-152° (144-147°)

Optical Rotation: [α]_D²²+51.2 (c, 1 in MeOH)

>>Derivative: 3'-Deoxy

Synonym(s): 3'-Deoxy-5-fluorouridine. 5-Fluoro-3'-deoxyuridine

Molecular Formula: C₉H₁₁FN₂O₅

Molecular Weight: 246.195

Accurate Mass: 246.065201

Percentage Composition: C 43.91%; H 4.50%; F 7.72%; N 11.38%; O 32.49%

Physical Description: Cryst. (EtOH)

Melting Point: Mp 169-171°

>>Derivative: 5'-Phosphate

CAS Registry Number: 796-66-7

Extra CAS Registry Numbers(s): 67550-10-1

Molecular Formula: C₉H₁₂FN₂O₃P

Molecular Weight: 246.178

Accurate Mass: 246.056958

Percentage Composition: C 43.91%; H 4.91%; F 7.72%; N 11.38%; O 19.50%; P 12.58%

Use/Importance: Metab. of 5-Fluorouridine [MRD44-T](#)

Physical Description: Needles (Me₂CO aq.) (as Na salt)

References: