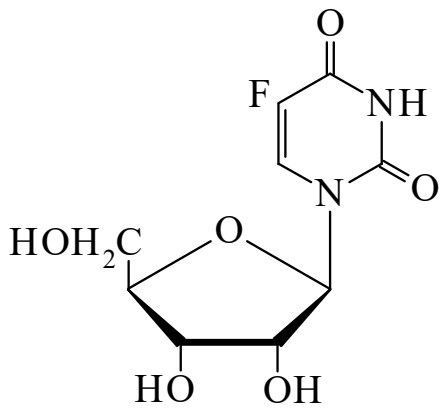
>>**Entry Name: 5-Fluorouridine**
Synonym(s): 1-α-D-Ribofuranosyl-5-fluoro-2,4(1*H*,3*H*)-pyrimidinedione



CAS Registry Number: 316-46-1

Molecular Formula: $C_9H_{11}FN_2O_6$
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: $[\alpha]_D^{26}$+17 (c, 2 in H_2O)

Aldrich: 32937-1
Fluka: 47580
Sigma: F5130

>>**Derivative:** 2'-Me

CAS Registry Number: 61671-80-5

Molecular Formula: $C_{10}H_{13}FN_2O_6$
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: $[\alpha]_D^{22}$+51.2 (c, 1 in MeOH)

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

Molecular Formula: $C_9H_{11}FN_2O_5$
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: $C_9H_{12}FN_2O_3P$
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 (Me_2CO aq.) (as Na salt)

References: