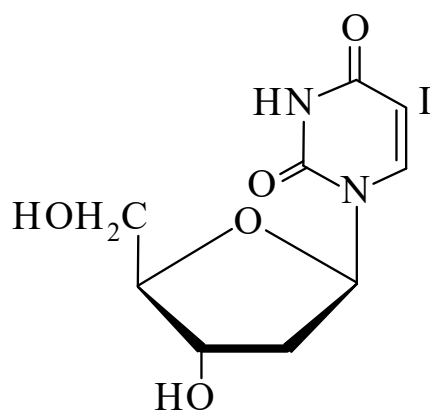




>>Entry Name: 2'-Deoxy-5-iodouridine, 9CI, 8CI

Synonym(s): Idoxuridine, BAN, INN, JAN, USAN. Dendrid. Herpid. Herplex. Idoxene. Iduridin. Kerecid. Virudox. IDU. NSC 39661. Many other names



CAS Registry Number: 54-42-2

Related CAS Registry Numbers(s): 13104-59-1

Molecular Formula: C<sub>9</sub>H<sub>11</sub>IN<sub>2</sub>O<sub>5</sub>

Molecular Weight: 354.101

Accurate Mass: 353.971271

Percentage Composition: C 30.53%; H 3.13%; I 35.84%; N 7.91%; O 22.59%

Biological Use/Importance: Used in the treatment of ocular herpetic infections

Physical Description: Cryst. (H<sub>2</sub>O)

Melting Point: Mp 160 (190-195°, 240°) dec.°

Optical Rotation: [α]<sub>D</sub><sup>20</sup> +29 (c, 1 in 1M NaOH)

Calculated Log P Data: Log P -0.98 (calc)

Hazard & Toxicity: Skin and eye irritant. Other adverse effects on eye and systemic effects when used therapeutically. Exp. reprod. and teratogenic effects

Aldrich: I-775-6

Fluka: 57830

Sigma: I7125

>>Derivative: 3'-Ac

CAS Registry Number: 15384-26-6

Molecular Formula: C<sub>11</sub>H<sub>13</sub>IN<sub>2</sub>O<sub>6</sub>

Molecular Weight: 396.138

Accurate Mass: 395.981836

Percentage Composition: C 33.35%; H 3.31%; I 32.04%; N 7.07%; O 24.23%

Melting Point: Mp 196-198°

>>Derivative: 3',5'-Di-Ac

CAS Registry Number: 1956-30-5

Molecular Formula: C<sub>13</sub>H<sub>15</sub>IN<sub>2</sub>O<sub>7</sub>

Molecular Weight: 438.175

Accurate Mass: 437.992401

Percentage Composition: C 35.63%; H 3.45%; I 28.96%; N 6.39%; O 25.56%

Melting Point: Mp 161-163°

Sigma: D8000

>>Derivative: 5'-Tosyl

CAS Registry Number: 58349-27-2

Molecular Formula: C<sub>16</sub>H<sub>17</sub>IN<sub>2</sub>O<sub>7</sub>S

Molecular Weight: 508.29

Accurate Mass: 507.980121

Percentage Composition: C 37.81%; H 3.37%; I 24.97%; N 5.51%; O 22.03%; S 6.31%

Melting Point: Mp 164-165 dec.°