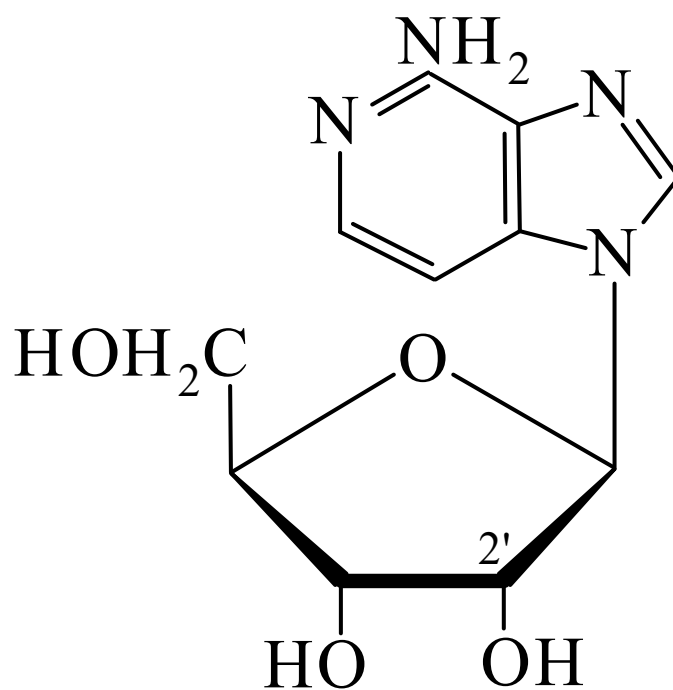




>>Entry Name: 4-Amino-1-ribofuranosyl-1*H*-imidazo[4,5-*c*]pyridine, 9Cl, 8Cl



Related CAS Registry Numbers(s): 78582-17-9

**Molecular Formula:** C<sub>11</sub>H<sub>14</sub>N<sub>4</sub>O<sub>4</sub>

**Molecular Weight:** 266.256

**Accurate Mass:** 266.101506

**Percentage Composition:** C 49.62%; H 5.30%; N 21.04%; O 24.04%

>>Variant: β-D-form

**Synonym(s):** 3-Deazaadenosine

**CAS Registry Number:** 6736-58-9

**Molecular Formula:** C<sub>11</sub>H<sub>14</sub>N<sub>4</sub>O<sub>4</sub>

**Molecular Weight:** 266.256

**Accurate Mass:** 266.101506

**Percentage Composition:** C 49.62%; H 5.30%; N 21.04%; O 24.04%

**Melting Point:** Mp 229-231°

**Optical Rotation:**  $[\alpha]_{\text{D}}^{27} -48.3$  (c, 1.03 in H<sub>2</sub>O)

**Other Data:** λ<sub>max</sub> 267-80 (ε 9 500), 262 (10 300) (pH 1); 265 nm (10 800) (pH 11)

**Sigma:** D8296

>>Derivative: 2'-Deoxy

**Synonym(s):** 3-Deaza-2'-deoxyadenosine

**CAS Registry Number:** 78582-15-7

**Molecular Formula:** C<sub>11</sub>H<sub>14</sub>N<sub>4</sub>O<sub>3</sub>

**Molecular Weight:** 250.257

**Accurate Mass:** 250.106591

**Percentage Composition:** C 52.79%; H 5.64%; N 22.39%; O 19.18%

**Melting Point:** Mp 206 dec.° (215°)

**Optical Rotation:**  $[\alpha]_{\text{D}}^{20} -25.5$  (c, 1 in DMF)

**pKa Value:** pK<sub>a</sub> 6.8 (25°, H<sub>2</sub>O)

>>Derivative: 5'-Deoxy

**Synonym(s):** 3-Deaza-5'-deoxyadenosine

**CAS Registry Number:** 98858-09-4

**Molecular Formula:** C<sub>11</sub>H<sub>14</sub>N<sub>4</sub>O<sub>3</sub>

**Molecular Weight:** 250.257

**Accurate Mass:** 250.106591

**Percentage Composition:** C 52.79%; H 5.64%; N 22.39%; O 19.18%

**Physical Description:** Cryst. +1H<sub>2</sub>O

**Melting Point:** Mp 140°

**Optical Rotation:**  $[\alpha]_{\text{D}}^{20} -31.9$  (c, 0.5 in DMF)

**References:**