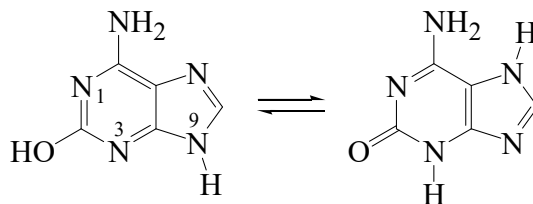




>>Entry Name: 6-Amino-2-hydroxypurine

Synonym(s): 6-Amino-1,3-dihydro-2*H*-purin-2-one, 9Cl. Isoguanine. Guanopterin



CAS Registry Number: 3373-53-3

Molecular Formula: C₅H₅N₅O

Molecular Weight: 151.127

Accurate Mass: 151.04941

Percentage Composition: C 39.74%; H 3.33%; N 46.34%; O 10.59%

General Statement: Several tautomers possible

Biological Source: Aglycone from *Croton tiglium*. Isol. from the wings of the butterfly *Prioneris thestylis*

Physical Description: Amorph. powder

Melting Point: Mp 360°

pKa Value: pK_{a1} 4.47; pK_{a2} 9.03 (20°)

>>Derivative: 9-(β-D-Arabinofuranosyl)

CAS Registry Number: 38819-11-3

Molecular Formula: C₁₀H₁₃N₅O₅

Molecular Weight: 283.243

Accurate Mass: 283.09167

Percentage Composition: C 42.41%; H 4.63%; N 24.73%; O 28.24%

Physical Description: Light yellow powder

Melting Point: Mp 269-272 dec.°

Optical Rotation: [α]_D²⁴ +29.5 (c, 0.5 in H₂O)

>>Derivative: 9-β-D-Ribofuranosyl

see Isoguanosine, [BVP02-Y](#)

>>Derivative: 1-Me

Synonym(s): 6-Amino-1,3-dihydro-1-methyl-2*H*-purine-2-one, 9Cl

CAS Registry Number: 73691-67-5

Molecular Formula: C₆H₇N₅O

Molecular Weight: 165.154

Accurate Mass: 165.06506

Percentage Composition: C 43.64%; H 4.27%; N 42.40%; O 9.69%

Physical Description: Powder

Melting Point: Mp 300°

>>Derivative: 1-Me, 9-β-D-arabinofuranosyl

Synonym(s): Ara-doridosine

CAS Registry Number: 77856-33-8

Molecular Formula: C₁₁H₁₅N₅O₅

Molecular Weight: 297.27

Accurate Mass: 297.10732

Percentage Composition: C 44.44%; H 5.09%; N 23.56%; O 26.91%

Use/Importance: Shows antiviral props.

Physical Description: Plates (H₂O)

Melting Point: Mp 223-225 dec.°

Optical Rotation: [α]_D²⁴ +25.5 (c, 0.5 in H₂O)