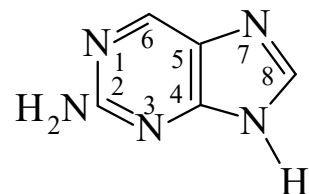




>>Entry Name: 2-Aminopurine, 8Cl

Synonym(s): 1*H*-Purin-2-amine, 9Cl. Isoadenine



CAS Registry Number: 452-06-2

Molecular Formula: C₅H₅N₅

Molecular Weight: 135.128

Accurate Mass: 135.054495

Percentage Composition: C 44.44%; H 3.73%; N 51.83%

Physical Description: Cryst. (H₂O)

Melting Point: Mp 277-278°

Hazard & Toxicity: Mutagenic props.

Aldrich: 28508-0

Sigma: A3509

>>Derivative: *N*²-Me

Synonym(s): 2-(Methylamino)purine, 8Cl

CAS Registry Number: 1931-01-7

Molecular Formula: C₆H₇N₅

Molecular Weight: 149.155

Accurate Mass: 149.070145

Percentage Composition: C 48.32%; H 4.73%; N 46.95%

Physical Description: Cryst. (H₂O)

Melting Point: Mp 278-280°

>>Derivative: *N*²,*N*²-Di-Me

Synonym(s): 2-(Dimethylamino)purine, 8Cl

CAS Registry Number: 23658-61-9

Molecular Formula: C₇H₉N₅

Molecular Weight: 163.182

Accurate Mass: 163.085795

Percentage Composition: C 51.52%; H 5.56%; N 42.92%

Physical Description: Cryst. (H₂O)

Melting Point: Mp 222-223°

>>Derivative: *N*²,*N*²-Di-Et

Synonym(s): 2-(Diethylamino)purine

CAS Registry Number: 5167-17-9

Molecular Formula: C₉H₁₃N₅

Molecular Weight: 191.235

Accurate Mass: 191.117095

Percentage Composition: C 56.53%; H 6.85%; N 36.62%

Physical Description: Cryst. (EtOH aq.)

Melting Point: Mp 228-230°

>>Derivative: 9-β-D-Ribofuranosyl

Synonym(s): 9-β-D-Ribofuranosyl-9*H*-purin-2-amine, 9Cl. 2-Amino-9-β-D-ribofuranosylpurine

CAS Registry Number: 4546-54-7

Molecular Formula: C₁₀H₁₃N₅O₄

Molecular Weight: 267.244

Accurate Mass: 267.096755

Percentage Composition: C 44.94%; H 4.90%; N 26.21%; O 23.95%

Use/Importance: Potent inhibitor of several purine metabolising enzymes, incorporated in *E. coli* and phage T4 DNA

Physical Description: Cryst. (EtOH aq.)

Melting Point: Mp 164-166°

Optical Rotation: [α]_D²³ -39 (c, 1.2 in H₂O)

Sigma: A4065