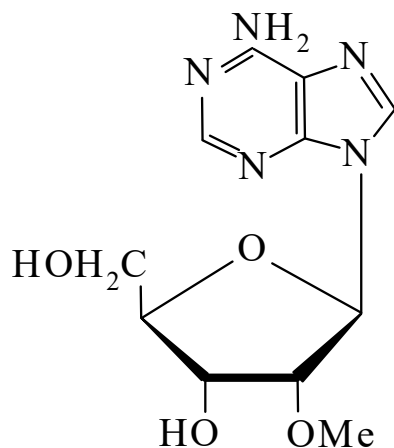




>>Entry Name: 2'-*O*-Methyladenosine, 9Cl, 8Cl

Synonym(s): 9-(2'-*O*-Methyl-β-D-ribofuranosyl)adenine



CAS Registry Number: 2140-79-6

Molecular Formula: C₁₁H₁₅N₅O₄

Molecular Weight: 281.271

Accurate Mass: 281.112405

Percentage Composition: C 46.97%; H 5.38%; N 24.90%; O 22.75%

Biological Source: Constit. of yeast and other soluble ribonucleic acids (s-RNA)

Physical Description: Cryst. (EtOH)

Melting Point: Mp 203-204°

Optical Rotation: $[\alpha]_D^{24} -58.2$ (c, 1.0 in H₂O)

Other Data: $\lambda_{\max}$ 258.5 nm (ϵ 13 900) (pH 11)

Sigma: M9886

>>Derivative: 6*N*-Me

Synonym(s): 6*N*,2'*O*-Dimethyladenosine

Molecular Formula: C₁₂H₁₇N₅O₄

Molecular Weight: 295.297

Accurate Mass: 295.128055

Percentage Composition: C 48.81%; H 5.80%; N 23.72%; O 21.67%

Melting Point: Mp 88-91°

>>Derivative: 3'-Sulfamoyl

Physical Description: Cryst. (EtOH)

Melting Point: Mp 195-197 dec.° (as hemiethanolate)

Optical Rotation: $[\alpha]_D^{29} -84.5$ (c, 1.0 in 60% MeOH aq.)

>>Derivative: 3'-Me

Synonym(s): 2',3'-Di-*O*-methyladenosine

Molecular Formula: C₁₂H₁₇N₅O₄

Molecular Weight: 295.297

Accurate Mass: 295.128055

Percentage Composition: C 48.81%; H 5.80%; N 23.72%; O 21.67%

Physical Description: Prisms (EtOH)

Melting Point: Mp 182-184°

>>Derivative: 3',6*N*-Di-Me

Synonym(s): 6*N*,2'*O*,3'*O*-Trimethyladenosine

Molecular Formula: C₁₃H₁₉N₅O₄

Molecular Weight: 309.324

Accurate Mass: 309.143705

Percentage Composition: C 50.48%; H 6.19%; N 22.64%; O 20.69%

Physical Description: Needles (EtOH)

Melting Point: Mp 163-166°