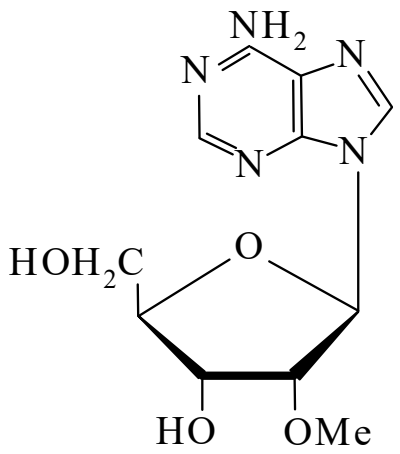
>>**Entry Name: 2'-*O*-Methyladenosine,** 9CI, 8CI
Synonym(s): 9-(2'-*O*-Methyl-β-D-ribofuranosyl)adenine



CAS Registry Number: 2140-79-6

Molecular Formula: $C_{11}H_{15}N_5O_4$
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 H_2O)
Other Data: λ_{max} 258.5 nm (ε 13 900) (pH 11)

Sigma: M9886

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

Molecular Formula: $C_{12}H_{17}N_5O_4$
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: $C_{12}H_{17}N_5O_4$
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: $C_{13}H_{19}N_5O_4$
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°