



Percentage Composition: C 46.60%; H 4.89%; N 22.64%; O 25.87%

Optical Rotation: $[\alpha]_{\text{D}}^{18} -33$ (c, 0.4 in 10% EtOH aq.)

>>Derivative: 3',5'-Di-Ac

Molecular Formula: $\text{C}_{14}\text{H}_{17}\text{N}_5\text{O}_6$

Molecular Weight: 351.318

Accurate Mass: 351.117885

Percentage Composition: C 47.86%; H 4.88%; N 19.93%; O 27.32%

Melting Point: Mp 222 dec.°

Optical Rotation: $[\alpha]_{\text{D}}^{18} -38$ (c, 0.3 in 10% EtOH aq.)

>>Derivative: 2*N*,3'-Di-Ac

CAS Registry Number: 51549-57-6

Molecular Formula: $\text{C}_{14}\text{H}_{17}\text{N}_5\text{O}_6$

Molecular Weight: 351.318

Accurate Mass: 351.117885

Percentage Composition: C 47.86%; H 4.88%; N 19.93%; O 27.32%

Melting Point: Mp 130-132°

Other Data: λ_{max} 280, 260, 255 nm (EtOH)

>>Derivative: 2*N*-Me

Molecular Formula: $\text{C}_{11}\text{H}_{15}\text{N}_5\text{O}_4$

Molecular Weight: 281.271

Accurate Mass: 281.112405

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

Optical Rotation: $[\alpha]_{\text{D}}^{26} -15.2$ (c, 1.64 in DMF)

Other Data: λ_{max} 258 (ϵ 13 400), 281 sh (7 370) (pH 1); 258 (11 200), 270 sh nm (10 200)(pH 11)

>>Derivative: 5'-Phosphate

Synonym(s): 2'-Doxyguanosine 5'-(dihydrogen phosphate), 9Cl. 2'-Deoxy-5'-guanylic acid

CAS Registry Number: 902-04-5

Extra CAS Registry Numbers(s): 33430-61-4 52558-16-4 133342-19-5

Molecular Formula: $\text{C}_{10}\text{H}_{14}\text{N}_5\text{O}_7\text{P}$

Molecular Weight: 347.224

Accurate Mass: 347.063087

Percentage Composition: C 34.59%; H 4.06%; N 20.17%; O 32.25%; P 8.92%

Physical Description: Solid + 4H₂O (as Ba salt); cryst. + 4H₂O (as Na salt)

Optical Rotation: $[\alpha]_{\text{D}}^{19} -18.6$ (c, 0.37 in H₂O) (as Ba salt)

Other Data: λ_{max} 253 (ϵ 15 680) (H₂O); 255 (13 650) (0.01*M* HCl); 263.5 nm (12 870)(0.01*M* NaOH)

>>Derivative: 2*N*-(2-Methylpropanoyl)

Synonym(s): 2'-Deoxy-*N*-(2-methyl-1-oxopropyl)guanosine, 9Cl

CAS Registry Number: 68892-42-2

Molecular Formula: $\text{C}_{14}\text{H}_{19}\text{N}_5\text{O}_5$

Molecular Weight: 337.335

Accurate Mass: 337.13862

Percentage Composition: C 49.85%; H 5.68%; N 20.76%; O 23.71%

Physical Description: Cryst. (MeOH aq.)

Other Data: Mp >300°