



Optical Rotation: $[\alpha]_{\text{D}}^{21} -15$ (c, 1.0 in Py)

UV: [neutral] λ_{max} 259 (ϵ 13900) (pH 7) [acid] λ_{max} 257 (ϵ 13800) (pH 1) [base] λ_{max} 260 (ϵ 14200) (pH 13)

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

Synonym(s): Puromycin aminonucleoside

CAS Registry Number: 58-60-6

Molecular Formula: C₁₂H₁₈N₆O₃

Molecular Weight: 294.313

Accurate Mass: 294.144039

Percentage Composition: C 48.97%; H 6.16%; N 28.55%; O 16.31%

Physical Description: Cryst. (MeOH or EtOH)

Melting Point: Mp 215-216°

Optical Rotation: $[\alpha]_{\text{D}}^{25} -24.6$ (c, 3.0 in H₂O)

Hazard & Toxicity: Nephritis inducer

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

CAS Registry Number: 34522-43-5

Molecular Formula: C₁₃H₂₀N₆O₃

Molecular Weight: 308.339

Accurate Mass: 308.159689

Percentage Composition: C 50.64%; H 6.54%; N 27.26%; O 15.57%

Physical Description: Cryst. (H₂O)

Melting Point: Mp 216-218°

Optical Rotation: $[\alpha]_{\text{D}}^{23} -52$ (c, 0.97 in EtOH)

UV: [neutral] λ_{max} 214 (ϵ 17100); 275 (ϵ 19400) (pH 7) [acid] λ_{max} 208 (ϵ 20100); 267 (ϵ 19200) (pH 1) [base] λ_{max} 275 (ϵ 19700) (pH 13)

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

CAS Registry Number: 25787-42-2

Molecular Formula: C₁₄H₂₂N₆O₃

Molecular Weight: 322.366

Accurate Mass: 322.175339

Percentage Composition: C 52.16%; H 6.88%; N 26.07%; O 14.89%

Physical Description: Cryst. (H₂O)

Melting Point: Mp 184.5-186°

Optical Rotation: $[\alpha]_{\text{D}}^{22} -27$ (c, 1.0 in H₂O)

UV: [neutral] λ_{max} 214 (ϵ 16100); 275 (ϵ 19000) (pH 7) [acid] λ_{max} 209 (ϵ 17700); 267 (ϵ 18600) (pH 1) [base] λ_{max} 276 (ϵ 700) (pH 13)

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