



Percentage Composition: C 42.86%; H 4.32%; N 29.99%; O 22.84%

Physical Description: Cryst. (EtOH)

Melting Point: Mp 245-247°

Optical Rotation: $[\alpha]_{\text{D}}^{25} -29$ (c, 1.08 in 1M HCl)

>>**Derivative:** *N*-Methylamide

CAS Registry Number: 35788-27-3

Molecular Formula: C₁₁H₁₄N₆O₄

Molecular Weight: 294.269

Accurate Mass: 294.107654

Percentage Composition: C 44.90%; H 4.80%; N 28.56%; O 21.75%

Physical Description: Cryst. (MeOH)

Melting Point: Mp 241-243°

>>**Derivative:** *N*-Ethylamide

Synonym(s): 1-(6-Amino-9*H*-purin-9-yl)-1-deoxy-*N*-ethyl-β-D-ribofuranuronamide, 9Cl. Adenosine-5'-*N*-ethyluronamide. 5'-*N*-Ethylcarboxamideadenosine. NECA

CAS Registry Number: 35920-39-9

Molecular Formula: C₁₂H₁₆N₆O₄

Molecular Weight: 308.296

Accurate Mass: 308.123304

Percentage Composition: C 46.75%; H 5.23%; N 27.26%; O 20.76%

Biological Use/Importance: Non-selective adenosine receptor agonist

Physical Description: Cryst. (EtOH or H₂O)

Melting Point: Mp 249-250° (245-246°)

Optical Rotation: $[\alpha]_{\text{D}}^{26} -16.3$ (c, 0.92 in HCl)

>>**Derivative:** *N*-Ethylamide, 2,3-di-Ac

CAS Registry Number: 58048-26-3

Molecular Formula: C₁₆H₂₀N₆O₆

Molecular Weight: 392.371

Accurate Mass: 392.144434

Percentage Composition: C 48.98%; H 5.14%; N 21.42%; O 24.47%

Melting Point: Mp 96-102°

Optical Rotation: $[\alpha]_{\text{D}}^{26} -19$ (c, 1.8 in H₂O)

>>**Derivative:** *N,N*-Diethylamide

Molecular Formula: C₁₄H₂₀N₆O₄

Molecular Weight: 336.35

Accurate Mass: 336.154604

Percentage Composition: C 49.99%; H 5.99%; N 24.99%; O 19.03%

Physical Description: Cryst. (MeOH)

Melting Point: Mp 244-245°

References:

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