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: $[\alpha]_D^{25}$ –29 (c, 1.08 in 1*M* HCl)

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

CAS Registry Number: 35788-27-3
Molecular Formula: $C_{11}H_{14}N_6O_4$
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: $C_{12}H_{16}N_6O_4$
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 H_2O)
Melting Point: Mp 249-250° (245-246°)
Optical Rotation: $[\alpha]_D^{26}$ –16.3 (c, 0.92 in HCl)

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

CAS Registry Number: 58048-26-3
Molecular Formula: $C_{16}H_{20}N_6O_6$
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: $[\alpha]_D^{26}$ –19 (c, 1.8 in H_2O)

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

Molecular Formula: $C_{14}H_{20}N_6O_4$
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°

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