Adenosine

Product Number A9251
Storage Temperature 2-8 °C

Product Description
Molecular Formula: C_{10}H_{13}N_{5}O_{4}
Molecular Weight: 267.2
CAS Number: 58-61-7
Specific Rotation: $-61.7^\circ$ (7 mg/100 ml water)$^1$
pK$_a$: 3.5 and 12.5.$^2$
Extinction Coefficient: $\epsilon_{\text{M}} = 15.4$ (259 nm in 0.01 M PO$_4$, pH 7)$^3$

Adenosine is a nucleoside, a purine riboside widely distributed in nature. Adenosine is the product of the degradation of AMP.

Precautions and Disclaimer
For Laboratory Use Only. Not for drug, household or other uses.

Preparation Instructions
Soluble in water (7 mg/ml ).$^1$

Storage/ Stability
Adenosine readily hydrolyzes in dilute mineral acids to adenine and D-ribose. Nitrous acid causes deamination.$^2$

References
1. The Merck Index, 11th ed., Entry# 143