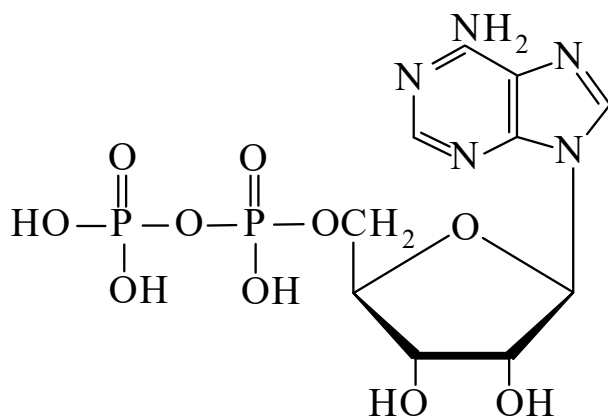




>>Entry Name: Adenosine diphosphate

Synonym(s): Adenosine 5'-(trihydrogen diphosphate), 9Cl. Adenosine 5'-pyrophosphate. ADP. Adenosine-5'-diphosphoric acid



CAS Registry Number: 58-64-0

Related CAS Registry Numbers(s): 1172-42-5 20398-34-9 123333-51-7

Molecular Formula: $C_{10}H_{15}N_5O_{10}P_2$

Molecular Weight: 427.203

Accurate Mass: 427.029419

Percentage Composition: C 28.12%; H 3.54%; N 16.39%; O 37.45%; P 14.50%

Biological Source: Formed from ATP in the muscle by the enzyme adenosinetriphosphatase. Prod. by various bacteria

pKa Value: pK_{a4} 4; pK_{a5} 6.48 (25°, 0.15M NaCl)

Other Data: λ_{max} 259 nm (ϵ 15 400) (H₂O)

Fluka: 1905

>>Derivative: Acridine salt

Melting Point: Mp 215 dec.°

>>Derivative: 6*N*-Benzoyl, tri-Na salt

Other Data: λ_{max} 281 nm (ϵ 19 400) (H₂O)

References:

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