



Synonym(s): Adenosine triphosphate disodium, JAN. Adetphos. Trinosin

CAS Registry Number: 987-65-5

Extra CAS Registry Numbers(s): 51963-61-2

Use/Importance: Inhibits enzymatic browning of apples, potatoes etc.

Melting Point: Mp 188-190 dec.° (hydrate)

Fluka: 2060

>>Derivative: Ca salt

CAS Registry Number: 15866-84-9

Extra CAS Registry Numbers(s): 71937-66-1

Physical Description: Solid

>>Derivative: Triacridine salt

Melting Point: Mp 208-209 dec.°

>>Derivative: 6*N*-Benzoyl

Molecular Formula: C₁₇H₂₀N₅O₁₄P₃

Molecular Weight: 611.292

Accurate Mass: 611.021966

Percentage Composition: C 33.40%; H 3.30%; N 11.46%; O 36.64%; P 15.20%

UV: [neutral] λ_{max} 259 (ε 19400) (H₂O) (as Na salt)

References:

Biochem. Prep., 1949, **1**, 5, (isol)

Baddiley, J. *et al.*, *J.C.S.*, 1949, 582, (synth)

Michelson, A.M., *The Chemistry of Nucleosides and Nucleotides*, Academic Press, N.Y. and London, 1963, 153, (rev)

Feldman, I. *et al.*, *J.A.C.S.*, 1968, **90**, 7329, (pmr)

Kennard, O. *et al.*, *Nature (London)*, 1970, **225**, 333, (cryst struct)

Dorman, D.E. *et al.*, *Proc. Natl. Acad. Sci. U.S.A.*, 1970, **65**, 19, (cmr)

Hampton, A. *et al.*, *Biochemistry*, 1975, **14**, 5438

Bock, J.L., *J. Inorg. Biochem.*, 1980, **12**, 119-130, (synth, Ca salt)

Martindale, *The Extra Pharmacopoeia*, 30th edn., Pharmaceutical Press, 1993, 58

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, ARQ500