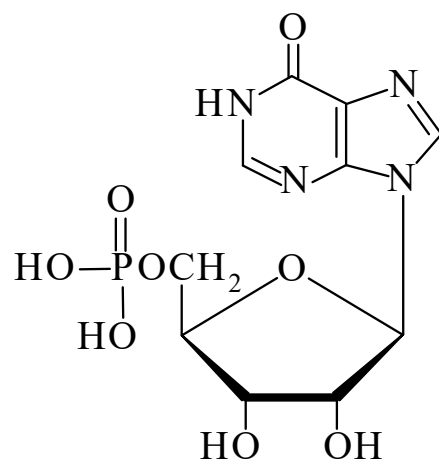




>>Entry Name: Inosinic acid, 8Cl

ENTRY UNDER REVIEW

Synonym(s): 5'-Inosinic acid, 9Cl. Inosine 5'-dihydrogen phosphate. Inosine 5'-monophosphate. Inosine 5'-phosphate. Inosine 5'-phosphoric acid. IMP



CAS Registry Number: 131-99-7

Molecular Formula: $C_{10}H_{13}N_4O_8P$

Molecular Weight: 348.208

Accurate Mass: 348.047103

Percentage Composition: C 34.49%; H 3.76%; N 16.09%; O 36.76%; P 8.90%

Biological Source: Isol. from yeast and other microorganisms

Physical Description: Syrup which solidifies to a glass on drying

Optical Rotation: $[\alpha]_D^{20} -18.5$ (c, 3.0, Ba salt in 2.5% HCl)

pKa Value: pK_{a1} 2.4; pK_{a2} 6.4

Hazard & Toxicity: LD_{50} (rat, orl) 16000 mg/kg

Sigma: I2879

>>Derivative: Di-Na salt

CAS Registry Number: 4691-65-0

Use/Importance: Used in enzyme analysis; flavour enhancer

Melting Point: Mp 175 dec.° (as monohydrate)

Sigma: I4500

>>Derivative: Homopolymer, complex with 5'-cytidylic acid polymer with 5'-uridylic acid (1:1)

Synonym(s): Ampligen. Poly (I): Poly ($C_{12}U$)

CAS Registry Number: 38640-92-5

Biological Use/Importance: Antiviral agent and immunomodulator. Potentially useful in the treatment of chronic fatigue syndrome

Development Status: Phase III clinical trials (USA 1998)

Other Data: Synth. mismatched, double stranded RNA

References: