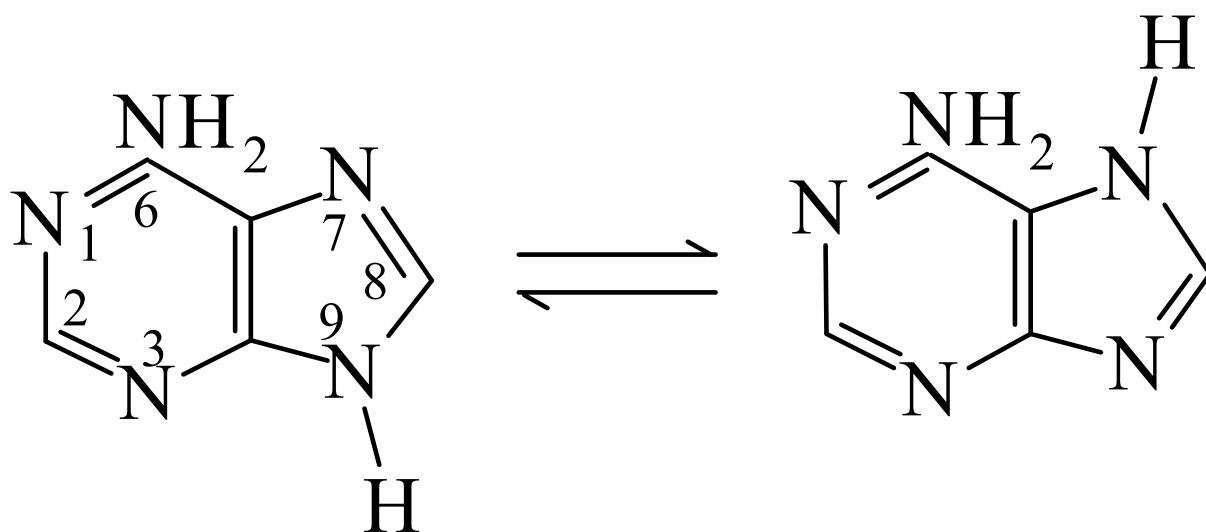




>>Entry Name: Adenine, JAN, USAN

Synonym(s): 1*H*-Purin-6-amine, 9Cl. 6-Aminopurine. Vitamin B₄



7H-form

CAS Registry Number: 73-24-5

Related CAS Registry Numbers(s): 2312-73-4 6055-72-7

Molecular Formula: C₅H₅N₅

Molecular Weight: 135.128

Accurate Mass: 135.054495

Percentage Composition: C 44.44%; H 3.73%; N 51.83%

favoured tautomer

Biological Source: Widespread throughout animal and plant tissue, purine components, of DNA, RNA, and coenzymes and biosynthetic intermed.

Biological Use/Importance: Antiviral agent, granulocyte antagonist. Vitamin. Pharmaceutical aid used to extend storage life of whole blood

Physical Description: Needles + 3H₂O (H₂O)

Melting Point: Mp 360-365 (anhyd.) dec.°

pKa Value: pK_{a1} 4.12; pK_{a2} 9.83 (25°)

Hazard & Toxicity: Exp. reprod. and teratogenic effects. LD₅₀ (rat, orl) 745 mg/kg

Aldrich: 10496-5

Fluka: 1830

Sigma: A8626