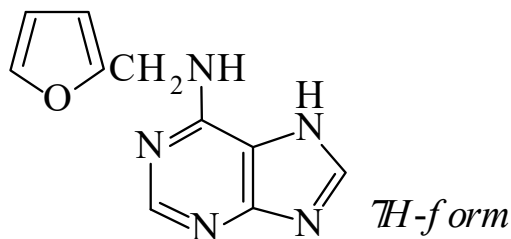




>>Entry Name: Kinetin

Synonym(s): *N*-(2-Furanylmethyl)-1*H*-purin-6-amine, 9Cl. 6-Furfuryladenine. 6-Furfurylaminopurine. Kinerase. Vivakin



CAS Registry Number: 525-79-1

Molecular Formula: C₁₀H₉N₅O

Molecular Weight: 215.214

Accurate Mass: 215.08071

Percentage Composition: C 55.81%; H 4.21%; N 32.54%; O 7.43%

Biological Source: Isol. from yeast DNA

Biological Use/Importance: Plant cell division promotor. Dermatological agent. Used in the treatment of proliferative skin disorders

Physical Description: Plates (EtOH)

Development Status: Launched 1999 (US)

Melting Point: Mp 266-267°

pKa Value: pK_{a1} 3.8; pK_{a2} 10

Aldrich: 85264-3

Fluka: 48130

Sigma: K0753

>>Variant: 7*H*-form

Molecular Formula: C₁₀H₉N₅O

Molecular Weight: 215.214

Accurate Mass: 215.08071

Percentage Composition: C 55.81%; H 4.21%; N 32.54%; O 7.43%

>>Derivative: 7-Me

Molecular Formula: C₁₁H₁₁N₅O

Molecular Weight: 229.241

Accurate Mass: 229.09636

Percentage Composition: C 57.63%; H 4.84%; N 30.55%; O 6.98%

Physical Description: Cryst. (toluene/MeOH)

Melting Point: Mp 214-215°

>>Variant: 9*H*-form

Molecular Formula: C₁₀H₉N₅O

Molecular Weight: 215.214

Accurate Mass: 215.08071

Percentage Composition: C 55.81%; H 4.21%; N 32.54%; O 7.43%

>>Derivative: 9-Me

Molecular Formula: C₁₁H₁₁N₅O

Molecular Weight: 229.241

Accurate Mass: 229.09636

Percentage Composition: C 57.63%; H 4.84%; N 30.55%; O 6.98%

Physical Description: Cryst. (EtOH aq.)

Melting Point: Mp 175-177°

References: