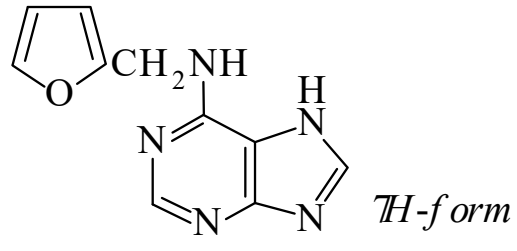
>>**Entry Name: Kinetin**
Synonym(s): *N*-(2-Furanylmethyl)-1*H*-purin-6-amine, 9CI. 6-Furfuryladenine. 6-Furfurylaminopurine. Kinerase. Vivakin



7*H*-form

CAS Registry Number: 525-79-1

Molecular Formula: $C_{10}H_9N_5O$
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: $C_{10}H_9N_5O$
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: $C_{11}H_{11}N_5O$
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: $C_{10}H_9N_5O$
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: $C_{11}H_{11}N_5O$
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: