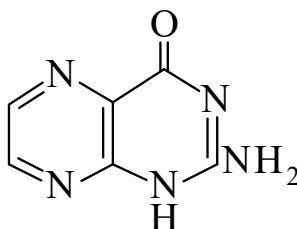




>>Entry Name: **2-Amino-4-hydroxypteridine**

Synonym(s): 2-Amino-4(1*H*)-pteridinone, 9Cl. 2-Amino-4-pteridinol. Pterin. Pteridoxamine. 2-Aminopteridinol



CAS Registry Number: 2236-60-4

Related CAS Registry Numbers(s): 938-42-1

Molecular Formula: C₆H₅N₅O

Molecular Weight: 163.138

Accurate Mass: 163.04941

Percentage Composition: C 44.17%; H 3.09%; N 42.93%; O 9.81%

General Statement: Form shown predominates

Biological Source: Isol. from numerous natural sources

Physical Description: Yellow cryst. (HCOOH aq.)

Other Data: Fluoresces: violet in neutral/alkaline soln.: yellow-green in acid soln.

Aldrich: 28708-3

Fluka: 82551

Rare Chemicals Library: S40544-2

Sigma: P1132

>>Derivative: 2-*N*-Ac

Molecular Formula: C₈H₇N₅O₂

Molecular Weight: 205.176

Accurate Mass: 205.059975

Percentage Composition: C 46.83%; H 3.44%; N 34.13%; O 15.60%

Physical Description: Cryst. (propanol)

Melting Point: Mp 350°

Other Data: Browns at 270°

>>Derivative: *N*¹-Me

Synonym(s): 2-Amino-1-methyl-4(1*H*)-pteridinone, 9Cl

CAS Registry Number: 13005-86-2

Molecular Formula: C₇H₇N₅O

Molecular Weight: 177.165

Accurate Mass: 177.06506

Percentage Composition: C 47.46%; H 3.98%; N 39.53%; O 9.03%

Melting Point: Mp 335-337 dec.°

>>Derivative: 2-*N*-Me

Synonym(s): 2-(Methylamino)-4(1*H*)-pteridinone, 9Cl

CAS Registry Number: 13005-84-0

Molecular Formula: C₇H₇N₅O

Molecular Weight: 177.165

Accurate Mass: 177.06506

Percentage Composition: C 47.46%; H 3.98%; N 39.53%; O 9.03%

Physical Description: Pale-yellow cryst.

Melting Point: Mp 350°

>>Derivative: 8-Oxide

CAS Registry Number: 42346-89-4

Molecular Formula: C₆H₅N₅O₂

Molecular Weight: 179.138

Accurate Mass: 179.044325

Percentage Composition: C 40.23%; H 2.81%; N 39.09%; O 17.86%

Physical Description: Bright-yellow cryst.

Melting Point: Mp 360°