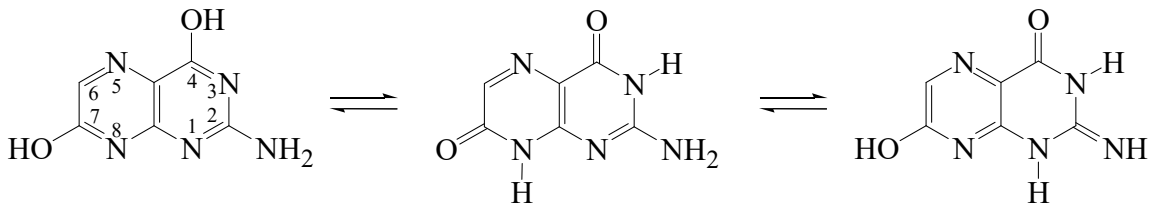
>>**Entry Name: 2-Amino-4,7-dihydroxypteridine**
Synonym(s): 2-Amino-4,7(1*H*,8*H*)-pteridinedione, $_{9Cl}$. **Isoxanthopterin.** Ranachrome 4



CAS Registry Number: 529-69-1

Molecular Formula: $C_6H_5N_5O_2$
Molecular Weight: 179.138
Accurate Mass: 179.044325
Percentage Composition: C 40.23%; H 2.81%; N 39.09%; O 17.86%
Biological Source: Widespread insect pigment found in amphibian and fish skin; normal constit. of urine
Melting Point: Mp 300°
pKa Value: pK_{a1} 7.34; pK_{a2} 10.06 (20°,H_2O)

Aldrich: 10007-2
Fluka: 59945
Sigma: I7388

>>**Variant:** 1*H*,3*H*-form

Molecular Formula: $C_6H_5N_5O_2$
Molecular Weight: 179.138
Accurate Mass: 179.044325
Percentage Composition: C 40.23%; H 2.81%; N 39.09%; O 17.86%

>>**Derivative:** Me ether, 1,3-di-Me
Synonym(s): *N*^{1},*N*^{3},*O*^{7}-Trimethylisoxanthopterin

Molecular Formula: $C_9H_{11}N_5O_2$
Molecular Weight: 221.218
Accurate Mass: 221.091275
Percentage Composition: C 48.87%; H 5.01%; N 31.66%; O 14.46%
Biological Source: Isol. from a *Eudistoma* sp.
Physical Description: Solid
UV: [neutral] λ_{max} 208 (sh) (log ε 4); 236 (sh) (log ε 3.7); 268 (log ε 3.4); 316 (log ε 3.6); 328 (sh) (log ε 3.6); 350 (sh) (log ε 3) (MeOH)

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