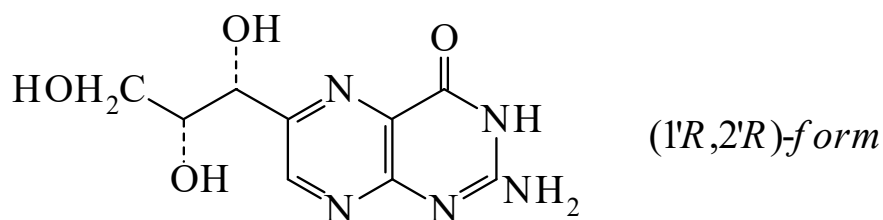




>> **Name:** 2-Amino-6-(1,2,3-trihydroxypropyl)-4(1*H*)-pteridinone, 9Cl



CAS Registry Number: 670-65-5

Related CAS Registry Numbers(s): 39923-31-4 87174-05-8

Molecular Formula: C₉H₁₁N₅O₄

Molecular Weight: 253.217

Accurate Mass: 253.081105

Percentage Composition: C 42.69%; H 4.38%; N 27.66%; O 25.27%

>>**Variant:** (1'*R*,2'*R*)-form

Synonym(s): D-*threo*-form. **Monapterin.** Umanopterin

CAS Registry Number: 10162-32-0

Molecular Formula: C₉H₁₁N₅O₄

Molecular Weight: 253.217

Accurate Mass: 253.081105

Percentage Composition: C 42.69%; H 4.38%; N 27.66%; O 25.27%

Biological Source: Isol. from *Tetrahymena pyriformis* and from the urine of cancer patients

Optical Rotation: $[\alpha]_{\text{D}}^{25} -92$ (c, 0.3 in 0.1*M* HCl)

>>**Derivative:** 5,6*R*,7,8-Tetrahydro

Synonym(s): 5,6,7,8-Tetrahydromonapterin

Molecular Formula: C₉H₁₅N₅O₄

Molecular Weight: 257.249

Accurate Mass: 257.112405

Percentage Composition: C 42.02%; H 5.88%; N 27.22%; O 24.88%

Biological Source: Isol. from *Tetrahymena pyriformis*

>>**Variant:** (1'*S*,2'*S*)-form

Synonym(s): L-*threo*-form

CAS Registry Number: 2277-42-1

Molecular Formula: C₉H₁₁N₅O₄

Molecular Weight: 253.217

Accurate Mass: 253.081105

Percentage Composition: C 42.69%; H 4.38%; N 27.66%; O 25.27%

Biological Source: Constit. of human blood and urine

Physical Description: Yellow cryst.

Optical Rotation: $[\alpha]_{\text{D}}^{25} +97$ (c, 0.3 in 0.1*M* HCl)

Fluka: 69865

>>**Variant:** (1'*S*,2'*R*)-form

Synonym(s): D-*erythro*-form. **Neopterin**

CAS Registry Number: 2009-64-5

Molecular Formula: C₉H₁₁N₅O₄

Molecular Weight: 253.217

Accurate Mass: 253.081105

Percentage Composition: C 42.69%; H 4.38%; N 27.66%; O 25.27%

Biological Source: Found in human blood and urine. First isol. from the pupae of bees

Use/Importance: Precursor in biosynth. of Biopterin [KCV17-C](#)

Optical Rotation: $[\alpha]_{\text{D}}^{25} +45$ (c, 0.3 in 0.1*M* HCl)

Aldrich: 36026-0

Fluka: 72147

Sigma: N3386