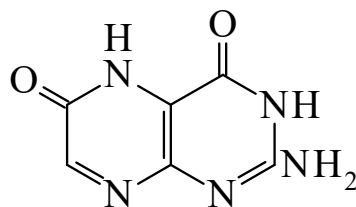




>>Entry Name: **Xanthopterin**

Synonym(s): 2-Amino-1,5-dihydro-4,6-pteridinedione, 9Cl. 2-Amino-4,6-dihydroxypteridine. Uropterin



CAS Registry Number: 119-44-8

Extra CAS Registry Numbers(s): 5979-01-1

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%

Biological Source: Important naturally occurring pteridine. Normal constit. of human urine. Yellow wing pigment of butterflies e.g. *Gonepteryx rhamni*, *Appias nero*, *Colias edusa*

Use/Importance: Inhibits cell proliferation

Melting Point: Mp 410° (carbonises above 360°)

Solubility: Sol. acids, alkalis

pKa Value: pK_{a1} 6.25; pK_{a2} 9.23 (20°)

>>**Derivative:** 6-*O*-Sulfate

Synonym(s): Xanthopterinsulfonic acid

Molecular Formula: C₆H₅N₅O₅S

Molecular Weight: 259.202

Accurate Mass: 259.00114

Percentage Composition: C 27.80%; H 1.94%; N 27.02%; O 30.86%; S 12.37%

Biological Source: Prod. by *Azotomonas insolita* and *E. coli*

Physical Description: Needles (H₂O) (as Na salt)

Melting Point: Mp 300° (Na salt)

References:

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Taylor, E.C. *et al.*, *J.A.C.S.*, 1973, **95**, 4455, (*synth*)

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Pfleiderer, W., *J. Het. Chem.*, 1992, **29**, 583, (*rev*)

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