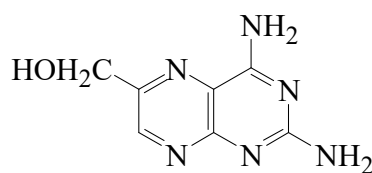




>>Entry Name: **2,4-Diamino-6-pteridinemethanol**, 9CI

Synonym(s): 2,4-Diamino-6-(hydroxymethyl)pteridine



CAS Registry Number: 945-24-4

Molecular Formula: C₇H₈N₆O

Molecular Weight: 192.18

Accurate Mass: 192.075959

Percentage Composition: C 43.75%; H 4.20%; N 43.73%; O 8.33%

Physical Description: Cryst. (H₂O)

Melting Point: Mp 333-334 dec.°

Other Data: Hygroscopic, light-sensitive. Mp >300°

>>Derivative: Hydrochloride

CAS Registry Number: 73978-41-3

Physical Description: Cryst. (HCl aq.)

Other Data: Mp >300°

>>Derivative: *O*-Ac

CAS Registry Number: 73978-44-6

Molecular Formula: C₉H₁₀N₆O₂

Molecular Weight: 234.217

Accurate Mass: 234.086524

Percentage Composition: C 46.15%; H 4.30%; N 35.88%; O 13.66%

Physical Description: Yellowish cryst. (H₂O)

Melting Point: Mp 275-285 dec.°

>>Derivative: *O*,2*N*-Di-Ac

CAS Registry Number: 73978-43-5

Molecular Formula: C₁₁H₁₂N₆O₃

Molecular Weight: 276.254

Accurate Mass: 276.097089

Percentage Composition: C 47.83%; H 4.38%; N 30.42%; O 17.37%

Physical Description: Cryst. (EtOH)

Melting Point: Mp 230-240 dec.°

>>Derivative: *O*,2*N*,4*N*-Tri-Ac

CAS Registry Number: 73978-42-4

Molecular Formula: C₁₃H₁₄N₆O₄

Molecular Weight: 318.291

Accurate Mass: 318.107654

Percentage Composition: C 49.06%; H 4.43%; N 26.40%; O 20.11%

Physical Description: Cryst. (Ac₂O)

Melting Point: Mp 205 dec.°

References:

Baugh, C.M. *et al.*, *J.O.C.*, 1964, **29**, 3610-3612, (*synth*, *uv*)

Taylor, E.C. *et al.*, *J.O.C.*, 1975, **40**, 2347, (*synth*)

Boyle, P.H. *et al.*, *Chem. Ber.*, 1980, **113**, 1514, (*synth*, *derivs*, *pmr*, *ms*)