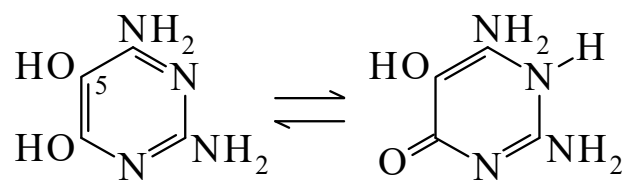




>>Entry Name: **2,4-Diamino-5,6-dihydroxypyrimidine**

Synonym(s): 2,6-Diamino-5-hydroxy-4(1*H*)-pyrimidinone, 9Cl. Divicine



CAS Registry Number: 60337-65-7

Molecular Formula: C₄H₆N₄O₂

Molecular Weight: 142.117

Accurate Mass: 142.049076

Percentage Composition: C 33.81%; H 4.26%; N 39.42%; O 22.52%

Source/Synthesis: Aglycone from vicine

Physical Description: Pale-yellow microcryst.

Melting Point: Mp 300 dec.°

>>Derivative: 5-*O*-β-D-Glucopyranoside

Synonym(s): Vicine‡. Vicioside

CAS Registry Number: 152-93-2

Molecular Formula: C₁₀H₁₆N₄O₇

Molecular Weight: 304.259

Accurate Mass: 304.101901

Percentage Composition: C 39.48%; H 5.30%; N 18.41%; O 36.81%

Biological Source: Isol. from vetch (*Vicia sativa*), *Vicia faba* and other Legumes

Melting Point: Mp 243-244 dec.°

Optical Rotation: [α]_D²⁶ -11.7 (0.2*M* NaOH)

References:

- Bendich, A. *et al.*, *Biochim. Biophys. Acta*, 1953, **12**, 462, (*isol, struct*)
Davoll, J. *et al.*, *J.C.S.*, 1956, 2124, (*synth*)
Chesterfield, J.H. *et al.*, *J.C.S.*, 1964, 1001, (*synth*)
Brown, E.G. *et al.*, *Phytochemistry*, 1972, **11**, 3203
Dutta, P.K. *et al.*, *Indian J. Chem., Sect. B*, 1981, **20**, 669, (*isol, pmr, cmr*)
Kunesch, N. *et al.*, *Annalen*, 1994, 1059, (*synth, Vicine*)