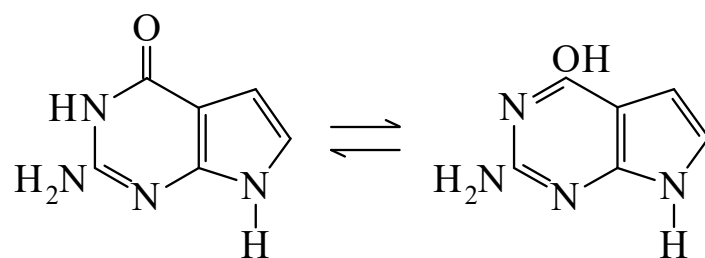




>>Entry Name: 2-Aminopyrrolo[2,3-*d*]pyrimidin-4-one

Synonym(s): 2-Amino-1,7-dihydro-4*H*-pyrrolo[2,3-*d*]pyrimidin-4-one, 9Cl. 2-Amino-4-hydroxypyrrolo[2,3-*d*]pyrimidine. 7-Deazaguanine



CAS Registry Number: 7355-55-7

Related CAS Registry Numbers(s): 86392-75-8 136859-58-0

Molecular Formula: C₆H₆N₄O

Molecular Weight: 150.14

Accurate Mass: 150.054161

Percentage Composition: C 48.00%; H 4.03%; N 37.32%; O 10.66%

Physical Description: Needles (H₂O)

Melting Point: Mp 323-324 dec.°

Sigma: D1035

>>Derivative: Monohydrate

Physical Description: Solid (H₂O)

Melting Point: Mp 315-317°

>>Derivative: 7-β-D-Ribofuranosyl

Synonym(s): 7-Deazaguanosine

CAS Registry Number: 62160-23-0

Molecular Formula: C₁₁H₁₄N₄O₅

Molecular Weight: 282.255

Accurate Mass: 282.096421

Percentage Composition: C 46.81%; H 5.00%; N 19.85%; O 28.34%

Melting Point: Mp 312-314 dec.°

>>Derivative: 7-(2-Deoxy-β-D-ribofuranosyl)

Synonym(s): 7-Deaza-2'-deoxyguanosine

Molecular Formula: C₁₁H₁₄N₄O₄

Molecular Weight: 266.256

Accurate Mass: 266.101506

Percentage Composition: C 49.62%; H 5.30%; N 21.04%; O 24.04%

Melting Point: Mp 264-266°

References:

Davoll, J., *J.C.S.*, 1960, 131, (*synth*)

Seela, F. *et al.*, *Chem. Ber.*, 1981, **114**, 3395, (*synth, uv, pmr*)

Ramasamy, K. *et al.*, *Tet. Lett.*, 1987, **28**, 5107, (*synth*)

Girgis, N.S. *et al.*, *J. Med. Chem.*, 1990, **33**, 2750, (*deriv*)