



>>Entry Name: 6-Chloro-9-β-D-ribofuranosyl-9H-purine

Synonym(s): 6-Chloronebularine

CAS Registry Number: 5399-87-1

Related CAS Registry Numbers(s): 2004-06-0

Structure by analogy with 2-Chloro-9-β-D-ribofuranosyl-9H-purine, [FVF63-L](#)

Molecular Formula: C₁₀H₁₁ClN₄O₄

Molecular Weight: 286.674

Accurate Mass: 286.046883

Percentage Composition: C 41.90%; H 3.87%; Cl 12.37%; N 19.54%; O 22.32%

Use/Importance: Antineoplastic agent

Physical Description: Cryst. (MeOH aq.)

Melting Point: Mp 165-166 dec.°

Optical Rotation: $[\alpha]_{\text{D}}^{24} -43.3$ (H₂O)

References:

Biochem. Prep., 1963, **10**, 145, (*synth, bibl*)

Zemlicka, J. *et al.*, *Coll. Czech. Chem. Comm.*, 1965, **30**, 1880, (*synth*)

Guilford, H. *et al.*, *Chem. Scr.*, 1972, **2**, 165, (*synth*)

Sternglanz, H. *et al.*, *Acta Cryst. B*, 1975, **31**, 2888, (*cryst struct*)

Sugiyama, T. *et al.*, *Agric. Biol. Chem.*, 1978, **42**, 1791, (*synth*)

Zemlicka, J. *et al.*, *Nucleic Acid Chem.*, 1978, **2**, 611, (*synth, use*)

Keyser, G.E. *et al.*, *Tet. Lett.*, 1979, 3263, (*synth*)

Zhao, H. *et al.*, *J.O.C.*, 1997, **62**, 7832-7835, (*synth, pmr, cmr, ms*)