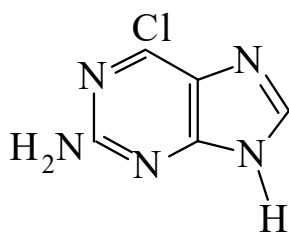




>>Entry Name: **2-Amino-6-chloropurine**

Synonym(s): 6-Chloro-1*H*-purin-2-amine, 9Cl. 6-Chloroisoadenine



CAS Registry Number: 10310-21-1

Related CAS Registry Numbers(s): 28814-41-7

Molecular Formula: C₅H₄ClN₅

Molecular Weight: 169.573

Accurate Mass: 169.015522

Percentage Composition: C 35.42%; H 2.38%; Cl 20.91%; N 41.30%

Physical Description: Cryst. (H₂O)

Melting Point: Mp 275 dec.°

Aldrich: 10978-9

Fluka: 7525

Sigma: C4003

>>**Derivative:** 9-β-D-Ribofuranosyl

Molecular Formula: C₁₀H₁₂ClN₅O₄

Molecular Weight: 301.689

Accurate Mass: 301.057782

Percentage Composition: C 39.81%; H 4.01%; Cl 11.75%; N 23.21%; O 21.21%

Use/Importance: Inhibitor of purine biosynth. and nucleoside metab. in cancer cells

Physical Description: Cryst. (MeOH)

Melting Point: Mp 171-172 dec.°

Optical Rotation: [α]_D²⁶ -27.7 (c, 0.61 in H₂O)

References:

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **2**, 715C, (*ir*)

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Daves, G.D. *et al.*, *J.A.C.S.*, 1960, **82**, 2633, (*synth*)

Robins, R.K. *et al.*, *J.A.C.S.*, 1960, **82**, 2654, (*deriv*)

Sartorelli, A.C. *et al.*, *Biochem. Pharmacol.*, 1968, **17**, 37, (*pharmacol, deriv*)