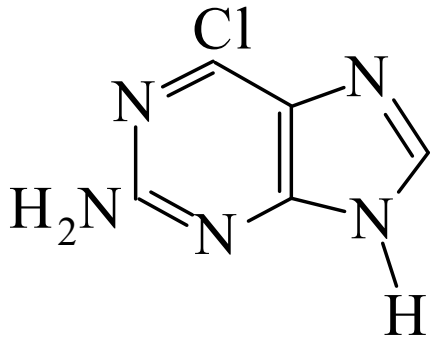
>>**Entry Name: 2-Amino-6-chloropurine**
Synonym(s): 6-Chloro-1*H*-purin-2-amine, 9Cl. 6-Chloroisoadenine



CAS Registry Number: 10310-21-1
Related CAS Registry Numbers(s): 28814-41-7

Molecular Formula: $C_5H_4ClN_5$
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. (H_2O)
Melting Point: Mp 275 dec.°

Aldrich: 10978-9
Fluka: 7525
Sigma: C4003

>>**Derivative:** 9-β-D-Ribofuranosyl

Molecular Formula: $C_{10}H_{12}ClN_5O_4$
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: $[\alpha]_D^{26}$ –27.7 (c, 0.61 in H_2O)

References:

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