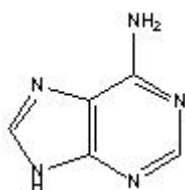


TECHNICAL INFORMATION

Catalog Number: 100190, 100191, 194606, 194608

Adenine

Structure (free base):



	<i>Free Base</i>	<i>Hydrochloride</i>
Molecular Formula:	C ₅ H ₅ N ₅	C ₅ H ₅ N ₅ ·HCl
Molecular Weight:	135.1	171.6
CAS #	73-24-5	6055-72-7

Synonyms: 6-Aminopurine; 1H-Purin-6-amine; 6-Amino-1H-purine; 6-Amino-3H-purine; 6-Amino-9H-purine; 1,6-Dihydro-6-iminopurine; 3,6-Dihydro-6-iminopurine; Leuco-4; Vitamin B4

Solubility:

Free Base: Easily soluble in acetic acid; formic acid (50 mg/ml - clear, colorless solution), 0.5 M Hydrochloric acid (20 mg/ml - clear to slightly hazy, colorless to faint yellow solution). Soluble in water (1 g/2000 ml @ 25°C; 1 g/40 ml boiling water); slightly soluble in ethanol.¹ Aqueous solutions are neutral.¹

Hydrochloride: Soluble in water (1 g/42 ml).¹ Soluble in 50% ammonium hydroxide (30 mg/ml - clear, colorless solution)

Physical Description: White to off-white powder

Description: Widespread throughout animal and plant tissues combined with niacinamide, D-ribose, and phosphoric acids; a constituent of nucleic acids and coenzymes, such as coenzyme I and II, adenylic acid, coenzyme dehydrogenase.¹

Availability:

Catalog Number	Description	Size
100190	Adenine	1 g 5 g 25 g 100 g 1 kg

194606	Adenine, cell culture reagent	1 g 5 g 25 g 100 g
100191	Adenine Hydrochloride	5 g 25 g 100 g
194608	Adenine Hydrochloride, cell culture reagent	1 g 5 g 25 g 100 g

References:

- *Merck Index*, **12th Ed.**, No. 150.
- *Lange's Handbook of Chemistry*, **12th Ed.**, Dean, J.A. (ed.), Table 7-5, p. 7-394.
- *Martindale: The Extra Pharmacopoeia*, **30th Ed.**, Pharmaceutical Press, p. 1331 (1993).
- *J. Amer. Chem. Soc.*, **v. 74**, 2422 (1952).