

SPECIFICATION

Product Name: Vitamin B6
Chemical Formula: C ₈ H ₁₁ NO ₃ ·HCl
CAS Number: 65-23-6
Molecular Weight: 205.64 g/mol
Appearance: A white or almost white crystalline powder.
Odor: Slightly fishy odor.

Chemical Composition

Parameter	Unit	Typical Value	Specification (Min/Max)
Identification	-	Consistent with the reference IR spectra. The principal peak corresponds to that with the reference in the test for related substances. Positive reaction.	(A) Consistent with the reference IR spectra. (B) The principal peak corresponds to that with the reference in the test for related substances. (C) Should be positive reaction.
PH	-	2.7	2.4~3.0
Appearance of solution	-	Clear, not more intense than Y7	Clear, not more intense than Y7
Heavy Metals	PPM	<20 PPM	NMT 20 PPM
Loss on drying	%	0.1%	NMT 0.5%
Sulphated Ash	%	0.06%	NMT 0.1%
Chloride content	%	17.2%	16.9~17.6%
Related Substances			
Total impurities	%	0.039%	NMT 0.20%
Unspecified impurities	%	0.007%	NMT 0.10%
B impurity	%	ND	NMT 0.15%

Residual Solvents			
Ethanol	%	<0.3%	NMT 0.3%
Assay	%	99.7%	99.0~101.0%

Physical Properties

- Solubility: Freely soluble in water. Slightly soluble in ethanol. Slightly soluble in glycerin. Practically insoluble in chloroform. Practically insoluble in ether.

Shelf Life & Storage

- Shelf Life: 4 years from date of manufacture under recommended storage.
- Storage Conditions: Store in a tightly closed, light-resistant container in a cool, dry, and well-ventilated place, protected from moisture, excessive heat, and direct sunlight. Keep the container tightly sealed when not in use to prevent degradation and moisture absorption.

Applications

- Use: Widely used as a nutritional supplement and vitamin fortification ingredient in pharmaceutical, nutraceutical, food, and beverage products. It plays an important role in amino acid metabolism, energy production, nervous system function, and red blood cell formation.
- Dosage: Depends on the intended application, formulation, age group, and nutritional requirements.

Packaging

- Standard Packing: 25 kg Fiber Drum or as per customer requirement.

- Labeling: Product name, batch number, net weight, manufacture date, expiry date, and manufacturer details.

* Specifications are based on the manufacturer's provided specifications.