

Vitamin B12

Water-soluble vitamin – Cyanocobalamin

Product Description

Pharmaceutical-grade Vitamin B12 (Cyanocobalamin) used in vitamin supplement formulations, injectables and fortified food products. Available to BP/USP standards.

Certificate of Analysis

HSN Code: 2936.26

CAS Number: 68-19-9

Classification: Pharmaceutical API / Nutraceutical

Parameter	Specification	Test Method
Appearance	Dark red crystalline powder	Visual
Assay (dried basis)	96.0–102.0%	UV spectrophotometry
Identification	UV absorption maxima at 361 nm and 550 nm	UV
Loss on Drying	"d 1 2 . 0 %	USP <731>
pH (1% aqueous)	4.0–5.5	USP <791>
Heavy Metals	"d 2 0 p p m	USP <231>
Residue on Ignition	"d 1 . 0 %	USP <281>

Physical Properties

Appearance: Dark red crystalline powder

Molecular Formula: $C_{61}H_{88}CoN_{14}O_6P$

Molecular Weight: 1355.38 g/mol

Solubility: Freely soluble in water; slightly soluble in ethanol

Melting Point: >300°C (decomp.)

Packing: 25 kg HDPE drums with inner polyethylene liner; 1 kg, 5 kg aluminium foil pouches

Storage: Store in a cool, dry, well-ventilated area away from light and moisture. Below 25°C. Light-sensitive.

Safety & Handling

PPE: Gloves, safety goggles, dust mask, lab coat

Hazards:

- Dust may cause mild respiratory irritation
- Light-sensitive