

## TECHNICAL DATA SHEET

# Cyanocobalamin (Vitamin B12)

## 0.1% Food Grade

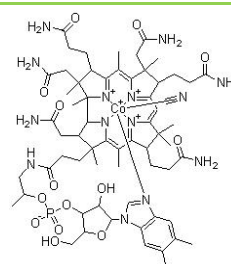
### Chemical Properties

CAS No: 68-19-9;

EINECS No.: 200-680-0

Chemical Formula:  $C_{63}H_{88}CoN_{14}O_{14}P$

Molecular Weight: 1355.38



### Description

Cyanocobalamin, the preliminary form of Vitamin B12, is essential for the proper production of blood platelets and red and white blood cells, the manufacture of vital substances needed for cell function, and the metabolism of nutrients necessary for cell growth.

### Solubility

Not soluble in water.

### Specification

Item	Specification	Test Method
Appearance	Light red homogeneous powder	Visual
Identification	Absorption maxima at $361 \pm 1$ nm and at $550 \pm 2$ nm	UV
Assay on dried basis	Min 0.1%	HPLC
Loss on drying	Max 10.0%	GB/T 6435
Particle size	Max 250 $\mu$ m	Standard mesh
Lead	Max 10.0 ppm	Atomic absorption
Arsenic	Max 2.0 ppm	ChP 2015<0822>

### Ingredients

Cyanocobalamin and mannitol as carrier.

### Labeling

In the United States and the European Union: Cyanocobalamin (Vitamin B12)

Food Grade

### Applications

Dietary supplement: Vitamin B12 plays a main role in improving the internal quality of various foods and the single function of traditional food products. Thus, the new trend to use VB12, as ingredient of food, drink, and health care food, is overwhelming throughout the world.

## Safety

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This product is safe for the intended use. Avoid ingestion, inhalation of dust or direct contact by applying suitable protective measures and personal hygiene. See Material Safety Data Sheet for full safety information.

## Handling recommendations

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Cyanocobalamin is easily decomposed when exposed to light. So it should be stored away from direct sunlight. The anhydrous substance of cyanocobalamin is very hygroscopic, so it should be stored in dry place.

## Packaging, Storage & Shelf Life

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Package	25kg/Cartron;or according to customers' requirements.
Storage	Preserve in tight, light-resistant containers
Shelf life	2 years if sealed and stored properly.