

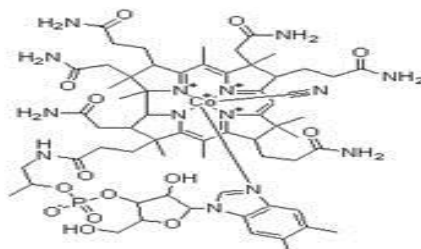
## Vitamin B12 (Cyanocobalamin)

CAS No.: 68-19-9

Molecular Weight: 1355.38

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

Structural Formula:



### Property:

The melting point of Vitamin B12 is  $>300^{\circ}C$ . The water solubility of Vitamin B12 is soluble. Vitamin B12 is dark red crystals or an amorphous or crystalline red powder. Vitamin B12 is very hygroscopic in the anhydrous form, and sparingly soluble in water (1:80).

Vitamin B12 is stable to autoclaving for short periods at  $121^{\circ}C$ . Vitamin B12 coenzymes are very unstable in light.

The chemical name is 5,6-Dimethyl-Benzimidazolyl Cyanocobamide.

### Specification:

Appearance	Dark red crystalline powder
Identification	A. $A_{362nm}/A_{278nm}$ : 1.70-1.90
	B. Positive
	C. Positive
Loss on drying	12% max.
Assay:	96.0%-100.5%
Pseudo Cyanocobalamin	Complies

### Usage:

Vitamin B12 is used in Megaloblastic anemia, Malnutrition, Posthemorrhagic anemia, neuralgia and disturbance. Megaloblastic anemia, malnutrition, posthemorrhagic anemia, neuralgia and disturbance.

### Packing:

Vitamin B12 is packed in 1000g/tin, 500g/tin, 100g/tin and stored in cool and air place.

### Shelf life:

Vitamin B12 is stored for 5 years in original packages under the described conditions.