

Vitamin B₁₂ 0.1% SD

Human Nutrition

BASF
The Chemical Company

Chemical names

Cyanocobalamin, vitamin B₁₂

CAS No.	68-19-9
EINECS No.	200-680-0

Product number

10307419 kosher

Description

Free-flowing, pink powder of almost spherical particles or agglomerates with a mild characteristic odor.

Composition

The particles consist of cyanocobalamin embedded in a matrix of maltodextrin. The product is acidified with citric acid (E 330) and trisodium citrate (E 331).

Solubility

The product is soluble in cold water.

Specification

Assay:	min. 0.10%
Loss on drying:	max. 5% (4 hours at 105°C)
Heavy metals:	max. 10 mg/kg
Arsenic:	max. 1 mg/kg

Monographs

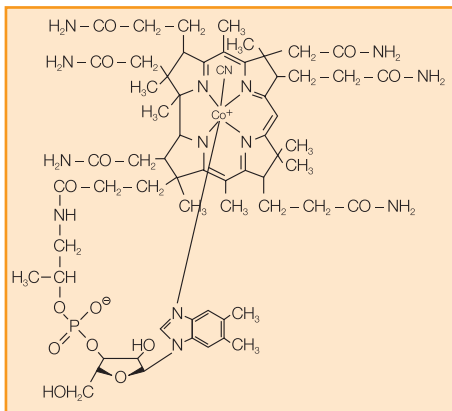
The included active ingredient complies with the current monograph "Cyanocobalamin" Ph.Eur. and "Cyanocobalamin" USP monographs.

Particle-size distribution

100% smaller than 180 µm (80 mesh USP)
mean particle size: 150 µm (200 mesh USP)

Bulk density

Approx. 0.5 g/ml



C₆₃H₈₈CoN₁₄O₁₄P Molar mass 1355.4 g/mol

Stabilization/Stability

The stability of the product in formulations is excellent even in the presence of minerals or other aggressive components.

Stored in the original packaging at room temperature (max. 25°C), the product is stable for at least 36 months.

Standard packaging

2.5 and 12.5 kg.

Please see appendix I for further information.

Storage

The product should be stored in the original packaging at room temperature (max. 25°C), in a dry, dark place.

Applications

Dietary supplements:

The product is particularly suitable for use in tablets and hard gelatin capsules. Due to the small particle size and relatively low vitamin B₁₂ content of the dry powder, the vitamin can be distributed very homogeneously even in formulations with a low active content. The product is suitable for use in powder preparations, which are dissolved in water prior to use.

Food products:

To prevent vitamin B₁₂ deficiency, the product is added to a large number of food products such as food for babies and small children, food products for athletes, dietetic products, milk powder, multivitamin juices, drink powders, confectionery and breakfast cereal.

The dry powder is especially suitable for use in powder food products, which are dissolved in water or milk prior to use. It can also be used in vitamin mixtures in the food ingredients industry. As it does not contain proteins, the product is very suitable for use in hypoallergenic food products.

Note

Vitamin B₁₂ 0.1% SD must be handled in accordance with the Safety Data Sheet.

The data contained in this publication are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any descriptions, drawings, photographs, data, proportions, weights etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product. It is the responsibility of the recipient of our products to ensure that any proprietary rights and existing laws and legislation are observed.

May 2005