

## Vitamin B12

Cat. No. COEC-035

Lot. No. (See product label)

### Introduction

#### Description

Vitamin B12 (Cyanocobalamin) is part of a coenzyme needed for the synthesis of proteins and nucleic acids, and for the metabolism of carbohydrates. Vitamin B12 plays a role in the synthesis of myelin. The compound is also used as an antipernicious anemia factor.

#### Applications

A coenzyme for synthesis of nucleic acids and metabolism carbohydrates

#### Synonyms

Cyanocobalamin

### Product Information

#### Form

Solid

#### CAS No.

68-19-9

#### Molecular Formula

C<sub>63</sub>H<sub>88</sub>CoN<sub>14</sub>O<sub>14</sub>P

#### Molecular Weight

1355.36

#### Purity

>95%

#### Melting Point

>392° C

#### Solubility

Soluble in water (50 mg/ml), DMSO (75 mg/ml at 25 °C), and ethanol (10 mg/ml at 25 °C). Insoluble in chloroform, and acetone.

#### Refractive Index

1.50 (Predicted)

#### Density

0.99-1.0 g/cm<sup>3</sup>