

# Dry Vitamin A-Palmitate 500

## Chemical names of active ingredient

Retinyl palmitate, all-trans retinol palmitic acid ester

**CAS-No.** 79-81-2

**EINECS-No.** 201-228-5

**PRD-No.**

30041047

## Article

50048562 25 kg bag in box

## Country of origin

Denmark

## Units

1 International Unit (IU) = 0.550 µg  
vitamin A-palmitate

## Description

Free-flowing, light-yellow powder, consisting of spherical particles.

## Composition

Ingredients in descending order of weight: vitamin A-palmitate, sucrose, modified starch, gelatin, t-butyl-hydroxytoluene (BHT), sodium aluminum silicate.

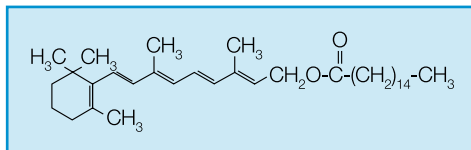
## Solubility

Dispersible in warm water (35 – 40 °C), to form a milky emulsion.

## Specification

Assay min. 500,000 IU vitamin A  
(= 150,000 RE) per gram

For further information see separate document: "Standard Specification" (not for regulatory purposes) available via BASF's WorldAccount: <https://worldaccount.basf.com> (registered access).



$C_{36}H_{60}O_2$

**Molar mass 524.9 g/mol**

## Monographs

The product complies with the current "Vitamin A concentrate (powder form), synthetic" Ph. Eur. and "Vitamin A" USP monographs.

## Regulations

The product meets the regulatory requirements for a vitamin A source in most countries. However, regulations on the ingredients used in the respective countries and for the intended use have to be observed.

## Bulk density

Approx. 0.6 g/ml

## Stability

The product is stabilized with BHT (E321). The stability of the vitamin A in the dry powder is excellent even in the presence of minerals. The product is resistant to pressure and very little vitamin A is expressed during tableting, thus resulting in good stability of the tablets.

Stored in its original packaging in a cool (8 – 15 °C), dry place, the product is stable for at least 24 months.

## Storage/Handling

As vitamin A is sensitive to atmospheric oxygen, light, moisture, and heat, the product should be stored in the original packaging in a cool (8 – 15 °C), dry, and dark place. It is recommended to use up the remaining contents quickly once the package has been opened.

## Applications

### Dietary supplements:

Should the product be subject to severe strain during processing or storage, it is recommended to use the palmitate version of the vitamin.

Since the palmitate contained in vitamin A is the ester with the best resistance to hydrolysis, vitamin A-palmitate is recommended particularly for preparations with a high moisture content as well as preparations, which will be stored in environments with a high relative humidity. It is equally suitable for use in multivitamin/mineral tablets and hard gelatin capsules.

## Note

Dry Vitamin A-Palmitate 500 must be handled in accordance with the Safety Data Sheet.

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