

# Oily Vitamin Blend 02-185

Vitamin A (retinyl palmitate) and vitamin D<sub>3</sub> (cholecalciferol) in sunflower oil

## Chemical name(s) of active ingredient

Vitamin A palmitate, retinyl palmitate;  
vitamin D<sub>3</sub>, cholecalciferol

<b>CAS-No.</b>	Vit. A-palmitate 79-81-2 Vit. D <sub>3</sub> 67-97-0
<b>EINECS-No.</b>	Vit. A-palmitate 201-228-5 Vit. D <sub>3</sub> 200-673-2

**PRD**  
30082219

<b>Articles</b>	
50563955	4 x 5 kg plastic can in box
57000373	0.1 kg aluminum drums

## Units

1 International Unit (IU) = 0.550 µg vitamin A palmitate  
= 0.300 µg RAE (retinol activity equivalent) = 0.300 µg RE (retinol equivalents)

1 International Unit (IU) = 0.025 µg vitamin D<sub>3</sub>

## Description

Viscous, yellow oil at room temperature. At the recommended storage temperatures, some of the vitamin A palmitate may crystallize. Vitamin A concentration was adjusted by adding sunflower oil. The product is packed under inert gas.

## Benefits

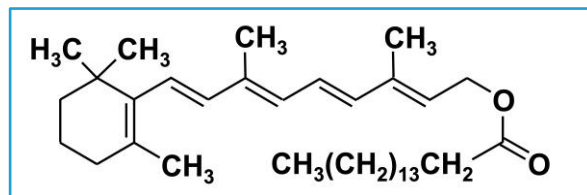
Vegetarian<sup>1</sup>, kosher, halal, allergen-free<sup>2</sup>, gluten-free<sup>3</sup>

## Composition

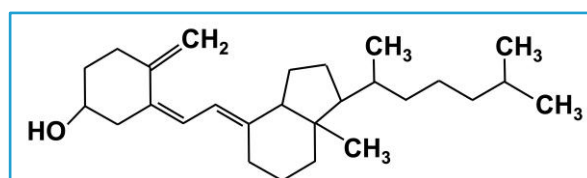
Ingredients in descending order of weight: retinyl palmitate (vitamin A palmitate), sunflower oil, *all-rac*-alpha-tocopherol (dl-alpha-tocopherol), vitamin D<sub>3</sub> (cholecalciferol)

## Solubility

Soluble in hydrocarbons, chlorinated hydrocarbons, ethers, fats, and oils. The solvents should not contain peroxides. Insoluble in water.



**Vitamin A-palmitate** **524.9 g/mol**  
**C<sub>36</sub>H<sub>60</sub>O<sub>2</sub>**



**Vitamin D<sub>3</sub> C<sub>27</sub>H<sub>44</sub>O** **384.7 g/mol**

## Specification

Assay Vit. A-palmitate	min. 1.0 mio IU/g (= 300,000 µg RAE)
Assay Vit. D <sub>3</sub>	min. 100,000 IU/g (= 2,500 µg cholecalciferol)

For further information see *Product Specification* (not for regulatory purposes) available in BASF's Human Nutrition Virtual Assistants:

<https://nutritionvirtualassistants.basf.com>

## Regulations

For quality documentation and compliance please see *Quality & Regulatory Product Information* and *Product Specification*. The product meets the regulatory requirements for a vitamin A and D source in most countries. It is the obligation of the user to check the regulations on the ingredients used in the respective countries and for the intended use.

## Stability and storage

Vitamin A and D<sub>3</sub> are sensitive to light, heat, oxygen and moisture and need to be stored in a light-proof and airtight container. The product is stabilized with approx. 10 mg of *all-rac*-alpha-tocopherol per 1.0 million IU. Stored in its unopened, original packaging at temperatures not above 15 °C, in a dry and dark place, the product is stable for at least 24 months.

### Handling

Prior to use or sampling the closed product must be heated in a water bath or heating cabinet (at 40 °C for 2-4 h) and homogenized by inverting repeatedly. Before use make sure the melting procedure yielded a homogenous liquid without visible solids or turbidity. Product may partially crystallize during storage. It is recommended to use up the remaining contents quickly once the package has been opened.

### Applications

For the fortification of foods such as margarine, spreads, oils, milk, and dairy products.

Suitability of these applications is presented based solely on technical feasibility. Local prevailing legal or regulatory requirements are not considered and should be observed separately. This product is not intended and recommended by BASF for use in food for infants and young children and has not been qualified by BASF for use in those applications with specific requirements. BASF is not testing or manufacturing the product to meet requirements which are applicable for these applications. BASF disclaims any representations, warranties and guarantees of fitness for such particular uses.

### Note

The product must be handled in accordance with the *Safety Data Sheet*.

<sup>1</sup> According to International Standard ISO 23662 on definitions and technical criteria for foods and food ingredients suitable for vegetarians or vegans and for labelling and claims.

<sup>2</sup> No labeling requirements with regard to allergens according to EU regulation (EC) No 1169/2011 (as amended) and the US Food Allergen Labeling and Consumer Protection Act (FALCPA).

<sup>3</sup> No ingredients used containing gluten. However, products are not explicitly tested on gluten.

---

This document and any information provided herein does not constitute a legally binding obligation of BASF and has been prepared in good faith and is believed to be accurate as of the date of issuance. Unless expressly agreed otherwise in writing in a supply contract or other written agreement between you and BASF:

- (a) To the fullest extent not prohibited by the applicable laws, BASF EXPRESSLY DISCLAIMS ALL REPRESENTATIONS, WARRANTIES, CONDITIONS OR GUARANTEES OF ANY KIND, WHETHER EXPRESS OR IMPLIED, WRITTEN OR ORAL, BY FACT OR LAW, INCLUDING ANY IMPLIED WARRANTIES, REPRESENTATIONS OR CONDITIONS OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, SATISFACTORY QUALITY, NON-INFRINGEMENT, AND ANY REPRESENTATIONS, WARRANTIES, CONDITIONS OR GUARANTEES, ARISING FROM STATUTE, COURSE OF DEALING OR USAGE OF TRADE AND BASF HEREBY EXPRESSLY EXCLUDES AND DISCLAIMS ANY LIABILITY RESULTING FROM OR IN CONNECTION WITH THIS DOCUMENT OR ANY INFORMATION PROVIDED HEREIN, including, without limitation, any liability for any direct, consequential, special, or punitive damages relating to or arising therefrom, except in cases of (i) death or personal injury, (ii) BASF's or its agents and assistants willful misconduct, fraud or fraudulent misrepresentation or (iii) any matter in respect of which it would be unlawful for BASF to exclude or restrict liability under the applicable laws;
- (b) Any information provided herein can be changed at BASF's sole discretion anytime and neither this document nor the information provided herein may be relied upon to satisfy any obligations you may have to undertake your own inspections and evaluation;
- (c) BASF rejects any obligation to, and will not, automatically update this document and any information provided herein, unless required by applicable law; and
- (d) You are responsible for confirming that you have retrieved the most current version of this document from BASF.
- (e) This document or any information provided herein must not be used for purposes of pharmaceutical registrations.