Oily Vitamin Blend 02-185

Vitamin A (retinyl palmitate) and vitamin D_3 (cholecalciferol) in sunflower oil

Chemical name(s) of active ingredient

Vitamin A palmitate, retinyl palmitate;
vitamin D_3, cholecalciferol

CAS-No.	Vit. A-palmitate 79-81-2 Vit. D_3 67-97-0
EINECS-No.	Vit. A-palmitate 201-228-5 Vit. D_3 200-673-2

PRD

30082219

Articles

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_3

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

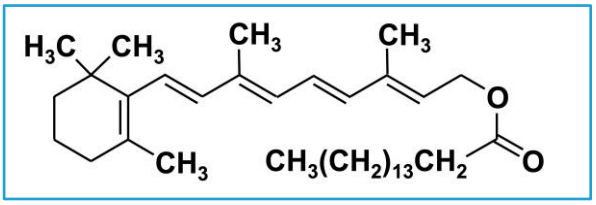
Vegetarian[1], kosher, halal, allergen-free[2], gluten-free[3]

Composition

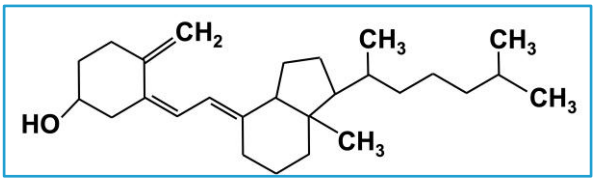
Ingredients in descending order of weight: retinyl palmitate (vitamin A palmitate), sunflower oil, *all-rac*-alpha-tocopherol (dl-alpha-tocopherol), vitamin D_3 (cholecalciferol)

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**
$C_{36}H_{60}O_2$



Vitamin D_3 $C_{27}H_{44}O$ **384.7 g/mol**

Specification

Assay Vit. A-palmitate	min. 1.0 mio IU/g (= 300,000 µg RAE)
Assay Vit. D_3	min. 100,000 IU/g (= 2,500 µg cholecalciferol)

For further information see *Product Specification* (not for regulatory purposes) available in BASF's MyBASFWorld:

https://my.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_3 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*.

[1] 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.
[2] 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).
[3] No ingredients used containing gluten. However, products are not explicitly tested on gluten.

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