

# Vitamin A/E Blend 1R

## Chemical names of active ingredient

Retinyl palmitate, all-trans retinol palmitic acid ester, all-trans-retinyl palmitate. DL- $\alpha$ -tocopheryl acetate, DL- $\alpha$ -phatocopheryl acetate, all-rac- $\alpha$ -tocopherol acetic acid ester, racemic 5,7,8-trimethyl-tocol acetate, all-rac- $\alpha$ -tocoheryl acetate.

<b>CAS-No.</b>	Vitamin A-palmitate	79-81-2
	Vitamin E-acetate	7695-91-2

<b>EINECS-No.</b>	Vitamin A-palmitate	201-228-5
	Vitamin E-acetate	231-710-0

**PRD-No.**  
30079726\*

\* The product is kosher and halal.

## Articles

50350371	25 kg plastic pail
57368166	950 kg IBC-container

## Country of origin

Germany

## Units

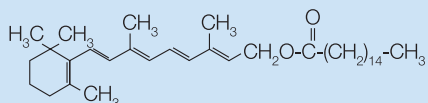
1 International Unit (IU)  
= 0.550  $\mu$ g Vitamin A-palmitate

1 International Unit (IU)  
= 1 mg Vitamin E-acetate  
= 0.455 mg D (= RRR)- $\alpha$ -Tocopherol equivalent

## Composition

Ingredients in descending order of weight: Vitamin A-palmitate, DL- $\alpha$ -tocopheryl acetate, soybean oil.

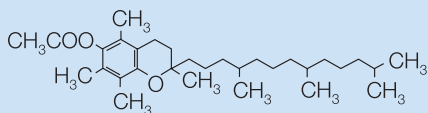
Vitamin A-palmitate



$C_{36}H_{60}O_2$

Molar mass 524.9 g/mol

Vitamin E-acetate



$C_{31}H_{52}O_3$

Molar mass 472.8 g/mol

## Description

Viscous, yellow oil at room temperature. At the recommended storage temperatures, some of the vitamin A-palmitate may crystallize.

## Solubility

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

## Specification

Assay	1.05 – 1.15 mio IU/g Vitamin A-palmitate (= 315,000 – 345,000 $\mu$ g REA per gram)
	200 – 220 IU/g Vitamin E-acetate (= 91 – 100 mg/g RRR- $\alpha$ -Tocopherol)

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

Unless otherwise stated, the methods of analysis can be found in the Ph. Eur.

### Monographs

The active ingredient vitamin A-palmitate complies with the current "Vitamin A concentrate (oily form), synthetic" Ph. Eur., "Vitamin A" USP and "Vitamin A concentrate Oil" IP monographs.

The active ingredient vitamin E-acetate complies with the current "All-rac- $\alpha$ -tocopheryl acetate" Ph. Eur., "Vitamin E" USP, "All-rac-alpha-tocopheryl acetate" FCC and "Tocopheryl acetate" IP monographs.

### Regulations

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

### Storage/Handling

As the vitamins are sensitive to atmospheric oxygen, light and heat, the oily vitamin blend should be stored in its unopened original packaging in a cool place (8 – 15 °C). Once opened, it is recommended to flush the packaging with an inert gas and to use the remaining contents as quickly as possible.

Prior to use or sampling, the product must be heated to 40 °C in the unopened container in a water bath and homogenized.

### Applications

#### Dietary supplements:

For preparations with a lipophilic base, e.g., soft gelatin capsules.

The product is particularly suitable for manufacturing emulsions using solubilizing agents.

#### Food products:

Used for the fortification of fatty foods, such as margarine, spreads, oils, milk, and dairy products. 3 – 9 mg (10,000 – 30,000 IU) of vitamin A, calculated as retinol, are usually added per kg of margarine. The regulations governing the use of BHT must be observed.

### Note

Vitamin A/E Blend 1R must be handled in accordance with the Safety Data Sheet.

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