

## SPECIFICATION

## Vitamin A 1.700.000 I.U./g Palmitate (EP/USP)

### Production unit

Shangyu NHU Biochem Co., Ltd.

### Description

#### Synonym

Retinyl Palmitate, Vitamin A, Vitamin A Palmitate  
All-E-3,7-dimethyl-9-(2,6,6-trimethyl-1-cyclohexen-1-enyl)nona-2,4,6,8-tetraen-1-yl-Palmitate

#### Formula

$C_{36}H_{60}O_2$

#### Product code

YYPY11

#### CAS No

79-81-2

### Properties

#### Ingredients

Retinyl palmitate, DL-Alpha-Tocopherol as antioxidant

#### Shelf life

24 months after production date in unopened original packaging

#### Aspect

A fat-like, light yellow solid or a yellow oily liquid

#### Assay (GC)

Min. 1.700.000 IU/g

#### Solubility

practically insoluble in water, soluble or partly soluble in anhydrous ethanol and miscible with organic solvents

#### Identification

TLC (Ph. Eur.)

#### Acid value

Max. 2,0 KOH/g (Ph. Eur.)

#### Peroxide value

Max. 10 meq/kg (Ph. Eur.)

#### Retinol

Max. 1,0 %

#### Absorbance ratios

> 0,85

#### Related substances

$A_{300}/A_{326} < 0,60$

$A_{350}/A_{326} < 0,54$

$A_{370}/A_{326} < 0,14$

#### TPPO

< 100 ppm

#### Antioxidant

DL-Alpha-Tocopherol/Alpha-Tocopherol (1b307/E307)

#### Residual Solvents

Meets the USP requirements

#### Heavy metals

Max. 10 mg/kg

#### Arsenic (As)

Max. 1 mg/kg

#### Lead (Pb)

Max. 1 mg/kg

#### Mercury (Hg)

Max. 0,1 mg/kg

#### Cadmium (Cd)

Max. 1 mg/kg

#### Traces of BHT

Max. 0,1 %

## Handling

### Stability

Vitamin A palmitate is very sensitive to the action of air, oxidising agents, light and heat, it should be stored in the unopened original containers.

### Usage

cosmetic and food use; product can also be used as feed additive, which consists of retinyl palmitate (3a672b) and alpha-tocopherol (1b307) as antioxidant

### Storage

Once opened, it is recommended to flush the packaging with an inert gas and to use the remaining contents as quickly as possible. Store in a cool and dry place.

### Transport instructions

See our latest safety data sheet

Classified as **hazardous substance** per EU regulation.

## NHU EUROPE GmbH

*A 1,7 Mio Palmitate/YYPY11/erstelltundfreigegeben: 110321/av*

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Deutsche Bank AG  
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Bank account USD  
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