

## SPECIFICATION

### Vitamin A 1.000.000 I.U./g Palmitate (Pharma USP/EP)

**Production unit**

Shangyu NHU Biochem

#### Description

Synonym

Retinyl 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

YYPY13

CAS No

79-81-2

#### Properties

Shelf life

24 months after production date in unopened original packaging

Aspect

A fat-like, light yellow solid or oily liquid

Product consists of retinyl palmitate (3a672b), alpha-tocopherol (1b307) as antioxidant and sunflower oil as dilution

Assay (LC)

Min. 1.000.000 IU/g

Acid value

Max. 2,0 (Ph. Eur.)

Peroxides

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

Heavy metals

Max. 10 mg/kg

Arsenic (As)

Max. 1 mg/kg

Traces of BHT

Max. 0,1 %

Retinol

Max. 1,0 %

Absorbance ratio

Min. 0,85 (USP procedure 1)

Related substances

$A_{300}/A_{326}$  – max 0,60

$A_{350}/A_{326}$  – max. 0,54

$A_{370}/A_{326}$  – max. 0,14

Identification (USP)

A: Color reaction with antimony III

B: TLC

Antioxidant

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

Residual Solvents

Meets the USP requirements

#### Microbiological specs

Total plate count

< 1000 CFU/g

Mould and Yeast

< 100 CFU/g

Coliforms

Negative in 10 g

Salmonella

Negative in 25 g

**Handling**

Stability

Vitamin A palmitate is sensitive to atmospheric oxygen, light and heat.

Usage

for cosmetic, feed and food industry

Storage

It should be stored in the unopened original container at a temperature below 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.

Transport instructions

please see our latest MSDS

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

**NHU EUROPE GmbH**