

SPECIFICATION

Product name Vitamin A 1.700.000 I.U./g Palmitate (EP/USP)
Product code YYPY11
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 $C_{36}H_{60}O_2$
Molecular weight 524,86 g/mol
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 $A_{300}/A_{326} < 0,60$
 $A_{350}/A_{326} < 0,54$
 $A_{370}/A_{326} < 0,14$

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

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

See our latest safety data sheet

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

NHU EUROPE GmbH