

SPECIFICATION

Product name Vitamin A 1.000.000 I.U./g Palmitate (Pharma USP/EP)
Product code YYPY13
Production unit Shangyu NHU Biochem

Description

Ingredients retinyl palmitate, sunflower oil as dilution, DL-alpha-tocopherol (E307) as antioxidant
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 $C_{36}H_{60}O_2$
Molecular weight 524,86 g/mol
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
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: Colour 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



Version: 1.00.0001
Date: 05.02.2025

Handling

Stability

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

Usage

for cosmetic and food industry; product can also be used as feed additive, which consists of retinyl palmitate (3a672b) and alpha-tocopherol (1b307) as antioxidant, dosage in feed: as per latest version of European feedstuff law

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 Life Science GmbH

