

SPECIFICATION

Product name Vitamin A 1.700.000 I.U./g Palmitate
Product code YYPY11
Production unit Shangyu NHU Biochem Co., Ltd.

Description

Ingredients Retinyl palmitate (EP), DL-alpha-tocopherol (E307) as antioxidant

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

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 $\leq 2,0$ KOH/g (Ph. Eur.)

Peroxide value ≤ 10 meq/kg (Ph. Eur.)

Retinol $\leq 1,0$ %

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 (E307)

Residual Solvents Meets the USP requirements

Heavy metals

Arsenic (As) ≤ 1 mg/kg

Lead (Pb) ≤ 1 mg/kg

Mercury (Hg) $\leq 0,1$ mg/kg

Cadmium (Cd) ≤ 1 mg/kg



Traces of BHT $\leq 0,1 \%$

Version: 3.00.0005
Date: 04.03.2026

Microbiological analysis

Total plate count ≤ 1000 CFU/g
Mould and Yeast ≤ 100 CFU/g
E. coli negative in 10 g
Salmonella negative in 25 g
Staph. aureus negative in 25 g
Pseudomonas aeruginosa negative in 1 g

Handling

Usage For food and cosmetic applications

Stability Sensitive to oxygen, light and heat. It should be stored in unopened original containers.

Storage Recommended storage temperature below 15 °C and dry place. Once opened, it is recommended to flush the packaging with an inert gas and to use the remaining contents as quickly as possible.

Transport See latest safety data sheet

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

The included active ingredient Vitamin A complies with current EP, USP and FCC.

NHU Life Science GmbH

