

## SPECIFICATION

**Product name** Vitamin A Palmitate 250.000 I.U./g  
**SD CWS/S Food Grade (USP)**  
**Product code** SP02-06  
**Production unit** Xinchang NHU Vitamins

### Description

**Ingredients** The product consists of maltodextrin, modified starch, Vitamin A palmitate, vegetable oil, sodium ascorbate, Butylhydroxytoluol as an antioxidant, silicon dioxide as an anti-caking agent

### 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

524,9 g/mol

### CAS No

79-81-2

### Properties

**Shelf life** 18 months after production date, in unopened original packaging

**Aspect** Light yellow, free flowing powder

**Assay (LC)** Min. 250.000 I.U./g

**Loss on drying** Max. 5,0 %

**Solubility** Dispersible in cool water forming a milky emulsion

**Sieve analysis** 100 % through sieve no. 40 (US)  
min. 90 % through sieve no. 60 (US)  
min. 45 % through sieve no. 100 (US)

### Identification

Thin-Layer chromatography (EP)  
A: Colour reaction with antimony III (USP)  
B: Thin-Layer chromatography (USP)

### Absorbance ratio

min. 0,85 (USP)

Heavy metals	max. 10 mg/kg
Arsenic (As)	max. 1 mg/kg
Lead (Pb)	max. 0,5 mg/kg
Cadmium (Cd)	max. 0,5 mg/kg
Mercury (Hg)	max. 0,1 mg/kg

BHT 0,1 - 1,0 %

### Microbiological specs

Total plate count	< 1000 CFU/g
Mould and Yeast	< 100 CFU/g
Coliforms	< 0,3 MPN/g
E. coli	negative in 10 g
Salmonella	negative in 25 g
Staph. aureus	negative in 25 g

### Handling

Stability Material is sensitive to moisture, oxygen, heat and light  
Once opened, use contents quickly

Storage It is recommended to store in a cool (below 15 °C) and dry place.

Transport instructions please see our latest safety data sheet

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

## NHU EUROPE GmbH