



NHU EUROPE GmbH, Daimlerstrasse 14-16, D-21357 Bardowick

TO WHOM IT MAY CONCERN

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## SPECIFICATION

### Vitamin A Palmitate 250.000 SD CWS/S Food Grade (USP 40)

#### Ingredients

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

SP02-06

CAS No

79-81-2

#### Properties

Shelf life

12 months after production date, in unopened original packaging

Aspect

Light yellow, free flowing powder. The product consists of maltodextrin, modified starch, Vitamin A palmitate Ph.Eur./USP, vegetable oil, sodium ascorbate, Butylhydroxytoluol as an antioxidant, silicon dioxide as an anti-caking agent

Assay (GC)

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

Heavy metals

Max. 10 mg/Kg

Arsenic (As)

Max. 1 mg/Kg

Lead (Pb)

Max. 2 mg/Kg

BHT

1,0 – 2,0 %



## Microbiological specs

Total plate count	≤ 1000 CFU/g
Mould and Yeast	≤ 100 CFU/g
Coliforms	≤ 0,3 MPN/g
Salmonella	Negative (in 25 g)

## Handling

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

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

Transport instructions See our latest safety data sheet

MSDS Yes

classified as hazardous as per EU regulation Yes, as hazardous substances

## **NHU EUROPE GmbH**