

## SPECIFICATION

**Product name** Vitamin A 500.000 I.U./g SD CWS/A Food Grade  
**Product code** SP01-12  
**Production unit** Xinchang NHU Vitamins

### Description

**Ingredients** The product consists of Vitamin A acetate, gum Arabic, maltodextrin, sucrose, sodium ascorbate, dl-alpha-tocopherol as antioxidant, silicon dioxide as an anti-caking agent

**Synonym** Retinyl acetate  
all-(E)-3,7-dimethyl-9-(2,6,6-trimethyl-1-cyclohex-1-enyl)2,4,6,8-nona tetraene-1-yl Acetate

**Formula** C<sub>22</sub>H<sub>32</sub>O<sub>2</sub>  
**Molecular weight** 328,49 g/mol  
**CAS No** 127-47-9

### Properties

**Shelf life** 24 months after production date in unopened original packaging

**Aspect** Light yellow, free flowing powder.

**Assay (GC)** Min. 500.000 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)

**Absorbance ratio** Min. 0,85

**Identification** EP: TLC

USP: A: Colour reaction with antimony III

B: TLC

### Heavy metals

**Arsenic (As)** max. 10 mg/kg

**Lead (Pb)** max. 1,0 mg/kg

**Cadmium (Cd)** max. 0,5 mg/kg

**Mercury (Hg)** max. 0,5 mg/kg

max. 0,1 mg/kg

### 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

Usage for food industry

### Stability

Sensitive to moisture, oxygen, heat and light  
Once opened, use contents quickly; not used content should be protected by inert gas.

### Storage

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

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

## NHU EUROPE GmbH