

## SPECIFICATION

**Product name** Vitamin A 325.000 I.U./g CWS/A Food grade  
**Product code** SP01-08  
**Production unit** Xinchang NHU Vitamins

### Description

**Ingredients** The product consists of Vitamin A acetate Ph.Eur./USP/FCC, gum Arabic, sucrose, corn starch, sodium ascorbate and dl- $\alpha$ -tocopherol as antioxidant, silicon dioxide as 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**  $C_{22}H_{32}O_2$   
**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 microcapsule.

**Assay (GC)** Min. 325.000 I.U./g Vitamin A acetate

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

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

**Sieve analysis** 100 % through sieve no. 20 (US)  
Min. 90 % through sieve no. 40 (US)  
Max. 15 % 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. 1,0 mg/kg  
**Lead (Pb)** max. 0,5 mg/kg  
**Cadmium (Cd)** max. 0,5 mg/kg  
**Mercury (Hg)** 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

Stability	The biological activity of vitamin A is reduced by oxidative degradation. Material is sensitive to moisture, oxygen, heat and light
Usage	Used for fortification of food, beverage, etc. 1 I.U. = 0.300 µg vitamin A alcohol = 0.344 µg vitamin A acetate
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