



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

TO WHOM IT MAY CONCERN

NHU EUROPE GmbH
Daimlerstrasse 14-16
21357 Bardowick
Deutschland

Telefon: + 49 4131 58088-00
E-Mail: info@nhu-eu.com

Bardowick, September 2018

SPECIFICATION

Vitamin A 325.000 I.U./g CWS/A Food Grade

Ingredients

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

$C_{22}H_{32}O_2$

Product code

SP01-08

CAS No

127-47-9

Properties

Shelf life

24 months after production date in unopened original packaging

Aspect

Light yellow, free flowing microcapsule. The product consists of Vitamin A acetate Ph.Eur./USP/FCC, gum Arabic, sucrose, cornstarch, sodium ascorbate and tocopherol as antioxidant, silicon dioxide as anti-caking agent

Assay (GC)

Min. 325.000 I.U./g

Loss on drying

Max. 5,0 %

Solubility

dispersible in cool water forming a milky emulsion

Sieve analysis

100 % through sieve no 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

Max. 0,85

Heavy metals

Max. 10 mg/Kg

Arsenic (As)

Max. 1,0 mg/Kg

Lead (Pb)

Max. 2,0 mg/Kg

Traces of BHT

Max. 0,02 %



Microbiological specs

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

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. 1l.U. = 0.300 µ g vitamin A alcohol = 0.344 µ g vitamin A Acetate
Storage	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