

## SPECIFICATION (complying to EP)

**Product name** Vitamin E Acetate 98 %  
**Product code** YYEJ02  
**Production site** Zhejiang NHU Company

### Description

**Synonym** DL-alpha-tocopheryl acetate,  
All-rac-alpha-tocopheryl acetate (3a700)  
**Formula** C<sub>31</sub>H<sub>52</sub>O<sub>3</sub>  
**Molecular weight** 472,8 g/mol  
**CAS No** 7695-91-2  
**INCI** Tocopheryl acetate

### Properties

**Aspect** Clear, colourless to slightly yellow or greenish-yellow,  
viscous, oily liquid  
**Solubility** practically insoluble in water, freely soluble in acetone,  
in anhydrous ethanol and in fatty oils, soluble in ethanol  
(96 %)  
**Shelf life** 36 months after production date in unopened original  
packaging  
**Assay (GC)** 96,5 % - 102 %  
**Identification A, B, C** A: Optical rotation  
B: IR spectrum  
C: TLC: Spot similar to reference solution, detection at  
254 nm  
**Optical Rotation** - 0,01° to + 0,01 °  
**Acid Value** Max. 1,0 ml of 0,10 N sodium hydroxide  
**Sulphated ash** Max. 0,10 %  
**Heavy metals** ≤ 10 mg/kg\*  
**Arsenic (As)** ≤ 1 mg/kg\*  
**Lead (Pb)** ≤ 0,5 mg/kg\*  
**Mercury (Hg)** ≤ 0,1 mg/kg\*  
**Cadmium (Cd)** ≤ 0,5 mg/kg\*

\* Test verified on random samples

Residual Solvents

Conform to EP requirements

**Related Substances**

Impurity A	≤ 0,5 %
Impurity B	≤ 1,5 %
Impurity C (free tocopherol)	≤ 0,5 %
Sum of Impurity D + E	≤ 1,0 %
Any other Impurities	≤ 0,25 % (for each impurity)
Total Impurities	≤ 2,5 %

**Handling**

Stability

Vitamin E acetate is stable to air and heat, but sensitive to light and alkalis.

Usage

food and cosmetic industry  
product can also be used as feed additive (3a700),  
dosage in feed: as per latest version of European  
feedstuff law.

Storage

Material needs to be stored in the original unopened  
packing, protected from light in a dry place.

Transport instructions

See our latest safety data sheet

**NHU EUROPE GmbH**

## **SPECIFICATION** (complying to USP)

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**Product code** YYEJ02  
**Production site** Zhejiang NHU Company

### **Description**

**Synonym** DL-alpha-tocopheryl acetate,  
All-rac-alpha-tocopheryl acetate (3a700)  
**Formula** C<sub>31</sub>H<sub>52</sub>O<sub>3</sub>  
**Molecular weight** 472,8 g/mol  
**CAS No** 7695-91-2  
**INCI** Tocopheryl acetate

### **Properties**

**Shelf life** 36 months after production date in unopened original packaging

**Aspect** Clear, colourless to slightly yellow or greenish-yellow, viscous, oily liquid

**Assay (GC)** Min. 98 %

**Identification A, B, C**  
A: Colour reaction: red or orange  
B: Optical rotation  
C: The retention time of the major peak for alpha tocopherol of the sample solution corresponds to that of the standard solution, as obtained in the Assay.

**Optical Rotation** - 0,01° to + 0,01 °

**Acid Value** Max. 1,0 ml of 0,10 N sodium hydroxide  
**Sulphated ash** ≤ 0,10 %

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

\* Test verified on random samples

**Residual Solvents** Conform to USP requirements

## Handling

### Stability

Vitamin E acetate is stable to air and heat, but sensitive to light and alkalis.

### Usage

food and cosmetic industry

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## NHU EUROPE GmbH