

## SPECIFICATION

## Vitamin E Acetate 98 % EP

### Production unit

Zhejiang NHU Company

### Description

#### Synonym

DL-alpha-tocopheryl acetate,  
All-rac-alpha-tocopheryl acetate (3a700)

#### Formula

$C_{31}H_{52}O_3$

#### Product Code

YYEJ02

#### 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

*E 98 / YYEJ02 / üa und fgg: 060423 av*

Bank account EUR  
Deutsche Bank AG  
DE 53 2407 0075 0019 5222 00  
DEUTDE2H240

Bank account USD  
Deutsche Bank AG  
DE 53 2407 0075 0019 5222 0005  
DEUTDE2H240

NHU EUROPE GMBH  
VAT Nr: DE 300 149 623 | Company license Nr: HRB 205610  
District Court: Lüneburg/Germany  
General Manager: Thomas Hoops

## SPECIFICATION Vitamin E Acetate 98 % USP

**Production unit** Zhejiang NHU Company

### Description

**Synonym** DL-alpha-tocopheryl acetate,  
All-rac-alpha-tocopheryl acetate (3a700)

**Formula**  $C_{31}H_{52}O_3$

**Product Code** YYEJ02

**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** ≤ 2,0 mg KOH/g

**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 fairly 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

*E 98 / YYEJ02 / üa und fgg: 060423 av*

Bank account EUR  
Deutsche Bank AG  
DE 53 2407 0075 0019 5222 00  
DEUTDE2H240

Bank account USD  
Deutsche Bank AG  
DE 53 2407 0075 0019 5222 0005  
DEUTDE2H240

VAT Nr: DE 300 149 623 | Company license Nr: HRB 205610  
District Court: Lüneburg/Germany  
General Manager: Thomas Hoops

**NHU EUROPE GMBH**