

SPECIFICATION DL-Alpha-Tocopherol 96 % (E307) (for food use)

Production unit Zhejiang NHU Company

Description

Synonym DL-alpha-Tocopherol, Tocopherol, Alpha-Tocopherol
Formula $C_{29}H_{50}O_2$
Product code YYES04
CAS No 10191-41-0
EC No 233-466-0

Properties

Shelf life 24 months after production date, in unopened original packaging
Aspect Clear, colourless or yellowish-brown, viscous, oily liquid
Assay 96 % to 102 % (JECFA)
Solubility Practically insoluble in water, freely soluble in acetone, in anhydrous ethanol
Spectrophotometry In absolute ethanol the maximum absorption is about 292 nm
Specific rotation $[\alpha]_D^{25} 0^\circ \pm 0,05^\circ$ (1 in 10 solution in chloroform)
Specific absorption in ethanol $E_{1\%}^{1\text{cm}}(292 \text{ nm}): 71,0 - 76,0$ (JECFA)
Refractive index (20 °C) $[n]_D^{20} 1,503 - 1,507$ (JECFA)
Acid value Max. 1,0 ml of 0,1 N NaOH (JECFA)
Sulphated ash Max. 0,1 % (JECFA)
Heavy metals Max. 10 mg/kg (JECFA)
Lead (Pb) Max. 0,5 mg/kg (JECFA)
Arsenic (As) Max. 1 mg/kg (JECFA)

Handling

Stability DL-alpha-Tocopherol oxidizes and darkens in air and on exposure to light

Storage Protect with a blanket of an inert gas
If the container is opened and not used immediately, it is recommended to flush the containers with an inert gas and to use up their contents as quickly as possible

Classified as **hazardous** as per EU regulation!

The product meets the latest editions of JECFA and EU Regulation No. 231/2012 of 9. March 2012.

NHU EUROPE GmbH

DL-Alpha-Tocopherol/YYES04/üa und fgg: 06032023/av

SPECIFICATION DL-Alpha-Tocopherol 96 % (for cosmetic use)

Production unit Zhejiang NHU Company

Description

Synonym DL-alpha-Tocopherol, Tocopherol, Alpha-Tocopherol
Formula $C_{29}H_{50}O_2$
Product code YYES04
CAS No 10191-41-0
EC No 233-466-0

Properties

Shelf life 24 months after production date, in unopened original packaging
Aspect clear, colourless or yellowish-brown, viscous, oily liquid (EP)
Assay 96 % - 102 % (EP/USP)
Solubility practically insoluble in water, freely soluble in acetone, in anhydrous ethanol

Specific absorption in ethanol

$E_{1\%}^{1\text{cm}}$ (292 nm): 71,0 - 76,0 (EP/ USP)

Identification A, B, C

A: Optical rotation: -0.01° to $+0.01^\circ$
B: Infrared absorption spectrophotometry: Both spectra in the product and the Reference Spectrum exhibit similar intensities of absorption at the same wave numbers. (EP)
C: Chromatography: 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. (USP)
TLC: The principal spot in the chromatogram obtained with the test solution is similar in position and size to the principal spot in the chromatogram obtained with the reference solution. (EP)

Acid value

Max. 1,0 ml of 0,1 N NaOH (USP)

Related substances (EP)

Impurity A Max 0,5 %
Impurity B Max 1,5 %
Sum of impurity C + D Max 1,0 %
Any other impurities Max 0,25 %
Total impurities Max 2,5 %

Handling

Stability

DL-alpha-Tocopherol becomes darker in colour as soon as it is exposed to air and light

Storage

Protect with a blanket of an inert gas.
If the container is opened and not used immediately, it is recommended to flush the containers with an inert gas and to use up their contents as quickly as possible

Classified as **hazardous** as per EU regulation!

The product meets the latest editions of USP and EP.

NHU EUROPE GmbH

DL-Alpha-Tocopherol/YYES04/üa und fgg: 06032023/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 DL-Alpha-Tocopherol 96 % (1b307) (for feed use)

Production unit Zhejiang NHU Company

Description

Synonym DL-alpha-Tocopherol, Tocopherol, Alpha-Tocopherol
Formula $C_{29}H_{50}O_2$
Product code YYES04
CAS No 10191-41-0
EC No 233-466-0

Properties

Aspect Clear, colourless or yellowish-brown, viscous, oily liquid
Shelf life 24 months after production date, in unopened original packaging
Stability DL-alpha-Tocopherol oxidizes and darkens in air and on exposure to light

Assay not less than 96 % and not more than 102 %
Solubility Practically insoluble in water, freely soluble in acetone, in anhydrous ethanol

Specific absorption in ethanol $E_{1\text{cm}}^{1\%}(292\text{ nm}): 71,0 - 76,0$ (JECFA)
Sulphated ash Max. 0,1 %

Heavy metals Max. 10 mg/kg
Arsenic (As) Max. 1 mg/kg
Lead (Pb) Max. 0,5 mg/kg

Handling

Usage Product can be used as feed additive, which consists of alpha-tocopherol.

Storage Protect with a blanket of an inert gas
If the container is opened and not used immediately, it is recommended to flush the containers with an inert gas and to use up their contents as quickly as possible

Classified as **hazardous** as per EU regulation!

NHU EUROPE GmbH

DL-Alpha-Tocopherol/YYES04/üa und fgg: 06032023/av

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

Bank account USD
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DE 53 2407 0075 0019 5222 0005
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