



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

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SPECIFICATION DL-Alpha-Tocopherol 96 % (E307/EP8)

Ingredients	
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) Product can be used as feed additive, which consists of alpha-tocopherol (1b307)
Assay	Between 96 % - 102,0 % (EP/JECFA/USP)
Solubility	practically insoluble in water, freely soluble in acetone, in anhydrous ethanol
Specific absorption in ethanol	$E_{1\text{cm}}^{1\%}$ (292 nm): 71,0 - 76,0 (EP/JECFA/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)



Refractive index (20 °C)	$[n]_D^{20}$ 1,503 – 1,507 (JECFA)
Acid value	Max. 1,0 ml of 0,10 N sodium hydroxide (JECFA/USP)
Sulphated ash	Max. 0,1 % (JECFA)
Heavy metals	Max. 10 mg/Kg (JECFA)
Arsenic (As)	Max. 1 mg/Kg (JECFA)
Lead (Pb)	Max. 2 mg/Kg (JECFA)

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

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

Transport instructions

See our latest safety data sheet

MSDS

Yes

classified as hazardous
as per EU regulation Yes, as hazardous substances

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