



Specification

Concerning Product:	
Article number	10191410BDSM
Trade name / designation / denomination	Vitamin E DL-alpha-Tocopherol
CAS number	10191-41-0
Other names / synonyms	•(+)-a-Tocopherol; •(+)-alpha-Tocopherol; •(+/-)-alpha-Tocopherol; •2,5,7,8-tetramethyl-2-(4,8,12-trimethyltridecyl)-3,4-dihydro-2H-1-benzopyran-6-ol; •3,4-dihydro-2,5,7,8-tetramethyl-2-(4,8,12-trimethyltridecyl)-2H-benzopyran-6-ol; •?-Tocopherol; •D-?-TOCOPHEROL; •D-alpha-Tocopherol; •DL-α-Tocopherol; •DL-?-TOCOPHEROL;
EC number	233-466-0
Molecular weight [g / mol]	430.7061
Formula	C ₂₉ H ₅₀ O ₂
May cause long lasting harmful effects to aquatic life. Avoid release to the environment. Dispose of contents/container in accordance with local/regional/(inter)national regulations.	

Parameter	Test Method	Specification	Unit
Organoleptic test			
Appearance	visual	clear viscous oil	
Colour	visual	colorless, almost colorless, slightly yellow, yellowish, yellowish-brown	
Physical parameter			
Acidity/Alkalinity	Titration	0,10 N NaOH: ≤ 1,0	mL
Refraction index		589 nm, 20 °C: 1.503 – 1.507	
Specific Optical Rotation	Polarimetry	-0,01 – 0,01	°
Identity			
Assay		97,0 – 102,0	%
Identification	GC	complies	
UV spectroscopy	UV/VIS spectroscopy	Maximum extinction: 71,0 – 76,0	

Impurities			
Heavy Metals (as Pb)	ICP-MS	≤ 10	ppm
Sulphated ash	Gravimetric	≤ 0,1	%
Impurity	GC	A. ≤ 0,5	%
Impurity	RRT:1. 294895	Any other impurity 1: ≤ 0,25	%
Impurity	RRT:1. 674755	Any other impurity 2: ≤ 0,25	%
Impurity	GC	B. ≤ 1,5	%
Impurity	GC	C. + D. ≤ 1,0	%
Impurity		total: ≤ 2,5	%
Elemental Impurities			
Arsenic (As)	ICP-MS	≤ 1	ppm
Cadmium (Cd)	ICP-MS	≤ 0,5	ppm
Mercury (Hg)	ICP-MS	≤ 1	ppm
Lead (Pb)	ICP-MS	≤ 2	ppm
Organic volatile impurities			
Toluene	GC	≤ 80	ppm

Regulatory information:

Registration status: This product is manufactured according to the Good Manufacturing Practices (GMP).

Supplemental information:

Shelf life: 2 years

Packing: 20 Kg Alu bottle

Regional origin: Europe

Chemische Werke Hommel GmbH & Co.KG

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Waltrop, 30. May. 2022

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