



## Specification

Concerning Product:	
Article number	10191410CLI80
Trade name / designation / denomination	Vitamin E (DL-alpha-Tocopherol) 80%
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 <sub>29</sub> H <sub>50</sub> O <sub>2</sub>
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	Specification	Unit
<b>Organoleptic test</b>		
Appearance	D-alpha Tocopherol is a monomer of the natural vitamine E derived from edible soy oil. It is produced by methylation and hydrogenation of natural mixed vitamine E and retains its original conformation. This product is min. 80.5% pure tocopherol diluted in sunflower oil.	
Colour	yellow to brownish red	
Odour	nearly odourless	
<b>Physical parameter</b>		
Acidity/Alkalinity	≤ 1	ml
Form	clear oily liquid	
Specific Optical Rotation	(@ 25°C) ≥ + 24°	

<b>Identity</b>		
Assay	≥ 1200	IU/g
Assay	D-α-Tocopherol: ≥ 80,5	%
Identification	complies	
<b>Impurities</b>		
Benzo[a]pyrene (BAP)	* ≤ 2	ppb
Heavy Metals (as Pb)	* ≤ 10	ppm
Polycyclic aromatic hydrocarbons (PAH)	* ≤ 10	ppb
Impurity	Vitamin C: ≤ 0,1	%
<b>Elemental Impurities</b>		
Arsenic (As)	* ≤ 3	ppm
Cadmium (Cd)	* ≤ 1	ppm
Mercury (Hg)	* ≤ 1	ppm
Lead (Pb)	* ≤ 2	ppm
<b>Fatty Acid composition</b>		
Mono-unsaturated fatty acids	0	g/100 g
Poly-unsaturated fatty acids	0	g/100 g
Saturated fatty acids	0	g/100 g
<b>Nutritional data</b>		
Calories	90	g/100 g
Carbohydrates	1	g/100 g
All Fats	0,5	g/100 g
Dietary Fiber	0	g/100 g
Potassium (Nutrient)	≤ 0,1	mg/100 g
Sodium (Nutrient)	≤ 0,1	mg/100 g
Protein	0,0	g/100 g
<b>Microbiological data</b>		
Escherichia Coli.	neg. in 10g	
Salmonella	neg. in 10 g	
Total Plate Count	≤ 1000	CFU/g
Yeast and Mould	≤ 100	CFU/g

**Annotation:**

(\*): Not routinely tested.

**Regulatory information:**

**GMO statement:** Non-GMO

## Supplemental information:

**Shelf life:** 2 years

**Derivation:** Soy bean oil distillates (> 80,5%) in Sunflower seed oil (Heliantus Annuus) (< 19,5%)

**Note:** The above nutrition information is based on pure tocopherol. The nutrition data for this product differs correspondingly slightly.

This material is Kosher and Halal Certified.

**Storage conditions:** Keep in tightly closed original sealed packing in a cool, clean and dry place, away from direct sunlight and water.

**Packing:** 20 kg and 190 mkg steel drums

**Regional origin:** CN

**Usage:** As active in nutritional supplements, especially soft gels.

As antioxidant and nutrient in food and feed additives.

As antioxidant and active ingredient in cosmetics.

If used as antioxidant, the amount of the product to be used will vary with each particular application. For most oils and fats, the recommended concentration of tocopherols in the product will range from 100 ppm to 400 ppm relative to the fat or oil content. For oils containing highly polyunsaturated fatty acids, tocopherol concentrations of up to 2000 ppm relative to the oil content may be necessary.

In cosmetic products the product is used in concentrations up to 1%.

Chemische Werke Hommel GmbH & Co.KG

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Waltrop, 19. Aug. 2021

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