

## TECHNICAL DATA SHEET

# Tocobest™ DL-alpha-Tocopheryl Acetate Oil

## 98% EP/USP/FCC

### Chemical Properties

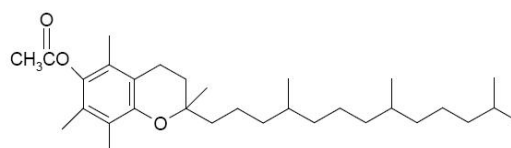
CAS No.: 7695-91-2

EINECS No.: 231-710-0

INCI Name: Tocopheryl Acetate

Chemical Formula: C<sub>31</sub>H<sub>52</sub>O<sub>3</sub>

Molecular Weight: 472.75



### Description

DL-alpha-Tocopheryl Acetate is a synthetic form of vitamin E. DL-alpha-Tocopheryl Acetate 98% is a kind of clear, colorless or slightly greenish-yellow, viscous oily liquid.

### Solubility

It is insoluble in water, freely soluble in ethanol, miscible with ether.

### Specification

Item	Specification	Test Method
Appearance	A clear, viscous oily liquid	organic
Color	Colorless, slightly greenish-yellow	organic
Assay	96.5~102%	EP
	96~102%	USP/FCC
Assay	98~102%	In-house
Identification		
A. Optical rotation	-0.01~+0.01°	EP
B. IR	To conform	EP/USP/FCC
C. TLC	To conform	EP
D. Color reaction	To conform	USP/FCC
E. Retention time, GC	To conform	USP/FCC
Acidity	Max 1.0ml	USP/FCC
Related Substances		
Impurity A	Max 0.5%	EP
Impurity B	Max 1.5%	EP
Impurity C	Max 0.5%	EP
Impurities D and E	Max 1.0%	EP
Any other Impurity	Max 0.25%	EP

Total Impurities	Max 2.5%	EP
Residual Solvents		
Isobutyl Acetate	Max 0.5%	In-house
Lead	Max 2ppm	FCC
Copper	Max 25ppm	In-house
Zinc	Max 25ppm	In-house
Arsenic	Max 1ppm	In-house
Total Plate Count	Max 1000 CFU/g	EP/USP
Yeast & Mold	Max 100 CFU/g	EP/USP
<i>E.Coli</i>	Negative	EP/USP
<i>Salmonella</i>	Negative/10g	EP/USP
<i>Staphylococcus</i>	Negative/g	EP/USP
<i>Pseudomonas aeruginosa</i>	Negative/g	EP/USP
<i>Staphylococcus aureus</i>	Negative/g	EP/USP
<i>Bile-Tolerant Gram-Negative Bacteria</i>	Negative/g	EP/USP

## Ingredients

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Pure DL-alpha-Tocopheryl Acetate Oil

## Labeling

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In the United States and the European Union: Tocobest™ Vitamin E Oil

DL-alpha-Tocopheryl Acetate 98%

## Applications

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Vitamin E is a strong antioxidant, helps prolong the life of red blood cells and plays an essential role in cellular respiration. It protects biological membranes including those found in the cardiovascular system, nerves and muscles. Vitamin E helps the body effectively use and store vitamin A and protects B-complex and vitamin C from oxidation reactions. It is a vasodilator and plays an important role in intermittent claudication, thrombotic disease, immune function, protection of lipoproteins from oxidation, cardiovascular disease prevention, cancer prevention, and helps protect against environmental pollutants and cigarette smoke.

DL-alpha-Tocopheryl Acetate is used for fortification of margarine, oil and fat, baby food, nutrition products and soft capsules, also widely in cosmetics.

## Safety

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This product is safe for the intended use. Avoid ingestion, inhalation of dust or direct contact by applying suitable protective measures and personal hygiene. See Material Safety Data Sheet for full safety information.

## Handling recommendations

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In contrast to vitamin E alcohol, vitamin E acetate is very stable to heat and oxygen. It is unstable to alkalis (hydrolysis) and oxidants.

### **Packaging, Storage & Shelf Life**

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Package	20kg/drum, 50kg/drum, 200kg/drum; or according to customers' requirements.
Storage	Store in a well-closed container away from moisture and direct sunlight.
Shelf life	3 years if sealed and stored properly.