

TECHNICAL DATA SHEET

Tocobest™ DL-α-Tocopherol Oil

96%

Chemical Properties

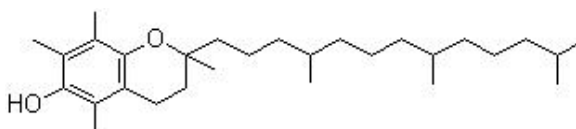
CAS No.: 10191-41-0

EINECS No.: 233-466-0

INCI Name: Tocopherol

Chemical Formula: C₂₉H₅₀O₂

Molecular Weight: 430.71



Description

It oxidizes and darkens in air and on exposure to light. Practically insoluble in water, freely soluble in ethanol, in anhydrous ethanol, in methylene chloride and in fatty oils.

Solubility

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

Specification

Item	Specification	Test Method
Appearance	A slightly yellow to amber, nearly odorless, clear, viscous oil.	Visual
Identification		
A: Specific rotation	0±0.05° 0±0.01°	E307/JECFA USP/EP
B: Spectrophotometry	To conform	E307/ JECFA
C: Color reaction	To conform	USP/FCC/ JECFA
Assay	96.0~102.0%	E307/USP/FCC/JECFA
Refractive index	1.503~1.507	E307/ JECFA
Absorption coefficient(292nm)	72~76	E307/JECFA
Sulphated ash	Max 0.1%	E307/JECFA
Acidity	Max 1.0ml	USP/FCC/JECFA
Residual Solvent		CP
ICH class 3 solvent	5000ppm	
Heavy metals (as Pb)	Max 10 ppm	E307
Lead	Max 2ppm	JECFA/E307
Arsenic	Max 3 ppm	E307
Total bacteria count	Max 1000cfu/g	GB/T 4789

Mold & yeast	Max 100cfu/g	GB/T 4789
Coliforms	Max 30 MPN/100g	GB/T 4789
<i>Salmonella</i>	Negative/10g	GB4789.4
<i>E. Coli</i>	Negative/10g	GB4789.38

Ingredients

Pure dl- α -tocopherol

Labeling

In the United States and the European Union: Tocobest™ Vitamin E Oil
DL-alpha-Tocopherol 96%

Applications

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.

Safety

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

DL-alpha-tocopherol is approved for use as an antioxidant and as a vitamin E source in most countries. It is sensitive to oxidizing agents, turning dark when exposed to air and light.

Packaging, Storage & Shelf Life

Package	20kg/drum, 50kg/drum, 190kg/drum; or according to customers' requirements.
Storage	It should be protected from light, heat, oxygen and moisture. Keep the container tightly closed.
Shelf Life	The product may be stored for 2 years from the date of manufacture in the unopened original container and at room temperature. Once opened, use contents quickly.