

TECHNICAL DATA SHEET

Tocobest™ D-α-Tocopherol Oil

1340IU m

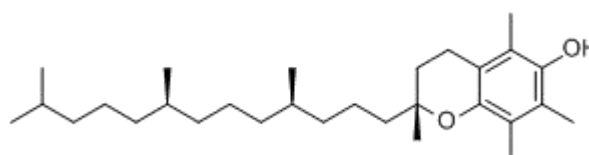
Chemical Properties

CAS No.: 59-02-9

EINECS No.: 200-412-2

Chemical Formula: C₂₉H₅₀O₂

Molecular Weight: 430.71



Description

D-alpha-tocopherol, the most active form of VE, is originated from soybean oil. It is insoluble in water, but soluble in ethanol, gasoline, ethyl and vegetable oil, heat-stable(almost no decomposition if heated to 200°C), nearly odorless. It darkens slowly in air and on exposure to light.

Solubility

It is insoluble in water, but soluble in ethanol, gasoline, ethyl and vegetable oil.

Specification

Item	Specification	Test Method
Appearance	Clear, brownish red to slight yellow oil	Organoleptic
Odor	Mild characteristic	Organoleptic
Identification		
Color reaction	Positive	USP
Retention time	The retention time of the major peak confirms to that of the standard preparation	USP
D-alpha-Tocopherol	Min 90.0% Min 1340IU	HPLC
Acidity	Max 1.0ml	USP
Specific Rotation	Min +24°	USP<781>
Organic Volatile Impurities	Conforms to USP requirement	USP
D-alpha in tocopherol	Min 95%	USP
Heavy Metals(as Pb)	Max 10ppm	USP<231>
Benzo[α]pyrene	Max 2ppb	GC-MS
Total Plate Count	Max 1000cfu/g	USP<61>
Yeasts & Molds	Max 100cfu/g	USP<61>
<i>E. coli</i>	Negative	USP<61>

<i>Salmonella</i>	Negative	USP<61>
<i>Staphylococcus Aureus</i>	Negative	USP<61>

Ingredients

Min 90.0% D-alpha-tocopherol, with Max 10.0% soybean oil as carrier. (m is short for soybean oil)

Labeling

In the United States and the European Union: Tocobest™ Vitamin E Oil
D-alpha-Tocopherol 1340IU

Applications

Use for fortification of margarine, oil and fat, nutrition products and baby food, also used in soft capsules and as an antioxidant in oil and fat.

The properties of VE like Antioxidant activity, Bio-membrane stabilizing activity, Promotion of blood circulation, Maintaining hormone balance and Anti-thrombosis activity give the main functions of VE. D-alpha-tocopherol products are used for fortification of margarine, oil, fat, nutrition products and infant food, or in supplements and as an antioxidant in oil and fat, also used in cosmetic products.

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

Keep container in a cool, well-ventilated area. Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/vapor/spray. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents.

Packaging, Storage & Shelf Life

Package	25kg/steel drum, 50kg/steel drum; or according to customers' requirements.
Storage	Keep container tightly closed. Keep container in a cool, well-ventilated area.
Shelf life	24 months if sealed and stored properly.