

TECHNICAL DATA SHEET

Tocobest™ D-alpha -Tocopherol Oil

1400IU J

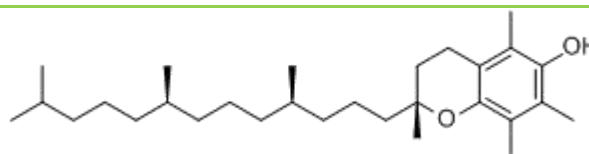
Chemical Properties

CAS No.: 59-02-9

EINECS No.: 200-412-2

Chemical Formula: C₂₉H₅₀O₂

Molecular Weight: 430.71



Description

D-alpha-tocopherol 1400IU is a concentrated form of natural source derived from edible vegetable oils. Research indicates that the human body prefers the natural source Vitamin E, over the synthetic forms. Moreover, based on the Food and Nutrition Board Expert Panel report on Vitamin E, d-alpha-tocopherol 1400IU is an essential nutrient and dietary supplement, it has twice the activity of synthetic forms, which means that natural Vitamin E is 100% more effective.

Solubility

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

Specification

Item	Specification	Test Method
Assay(D-alpha-Tocopherol)	Min 93.96%	HPLC
Acidity	Max 1.0ml	USP
Specific rotation[α] _{d25}	Min +24°	USP<781>
Heavy metals(as Pb)	Max 10ppm	USP<231>
Benzo(a)pyrene	Max 2ppb	GC-MS
Residual solvents	Meet USP <467>	USP <467>
Lead	Max 0.5ppm	ICP-MS
Arsenic	Max 1.0ppm	ICP-MS
Mercury	Max 1.0ppm	ICP-MS
Cadmium	Max 0.1ppm	ICP-MS
Total Plate Count	Max 1000cfu/g	USP<61>
Yeasts and moulds	Max 100cfu/g	USP<61>
E.Coli	Negative	USP<61>

Ingredients

Min 93.96% D-alpha-tocopherol, with Max 6.04% sunflower oil as carrier. (J is short for sunflower oil)

Labeling

In the United States and the European Union: Tocobest™ Vitamin E Oil
D-alpha-Tocopherol Oil 1400IU

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	20KG/190KG steel drum;950KG/IBC. Or in accordance with the customer's requirements.
Storage	Store in tightly closed containers, cool and dry. Protect from heat, light and oxygen.
Shelf Life	24 months if sealed and stored properly.