

## TECHNICAL DATA SHEET

# Tocobest™ D-alpha-Tocopherol Oil

## 1200IU m

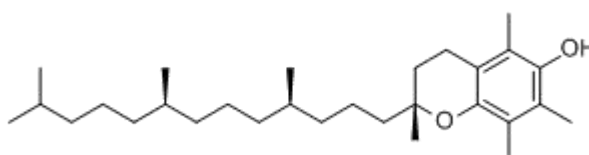
### Chemical Properties

CAS No.: 59-02-9

EINECS No.: 200-412-2

Chemical Formula: C<sub>29</sub>H<sub>50</sub>O<sub>2</sub>

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                             | Yellow to brownish red viscous oily liquid  | Organic     |
| Identification                         | Infrared absorption spectrophotometry obtained by the substance to be examined conforms to that HPLC obtained by the reference. |             |
| Specific Rotation[α] <sub>D</sub> 25°C | Min +24°  | USP<781>    |
| D-alpha-Tocopherol                     | Min 80.54%  | HPLC        |
| Sassy                                  | Min 1200IU/g  | HPLC        |
| D-alpha in Tocopherol                  | Min 95%   | HPLC        |
| Acidity Value                          | Max 1ml   | USP         |
| Heavy Metals                           | Max 20ppm   | USP<231>    |
| As                                     | Max 1ppm  | ICP-MS      |
| Hg                                     | Max 1ppm  | ICP-MS      |
| Total Plate Count                      | Max 1000cfu/g   | USP<61>     |
| Yeasts & Molds                         | Max 100cfu/g  | USP<61>     |
| Salmonella                             | Negative  | USP<61>     |

Staphylococcus Aureus

Negative

USP<61>

## Regulatory Information

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GMO Status:Non GMO

Irradiation Status:Non Irradiated

## Ingredients

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Min 80.54% D-alpha-tocopherol, with Max 19.46% soybean oil as carrier.(m is short for soybean oil)

## Labeling

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

D-alpha-Tocopherol Oil 1200IU

## Applications

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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

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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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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

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|            |   |
|------------|---|
| Package    | 20kg/steel drum, 50kg/steel drum or 190kg/steel drum;or according to customers' requirements. |
| Storage    | Store in a well-closed container away from moisture and direct sunlight.                      |
| Shelf Life | 24 months if sealed and stored properly.  |