

## TECHNICAL DATA SHEET

# Tocobest™ Mixed Tocopherols Oil

25% m

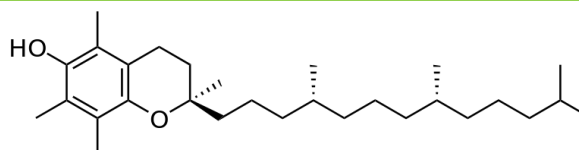
### Chemical Properties

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

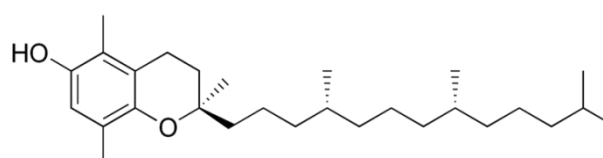


CAS number: 16698-35-4

EINECS No.: 16698-35-4

Chemical Formula: C<sub>28</sub>H<sub>48</sub>O<sub>2</sub>

Molecular Weight: 416.68

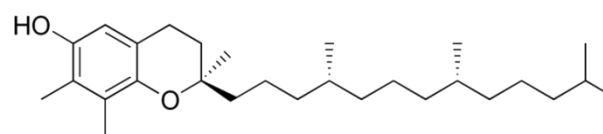


CAS number: 54-28-4

EINECS No.: 200-201-5

Chemical Formula: C<sub>28</sub>H<sub>48</sub>O<sub>2</sub>

Molecular Weight: 416.68

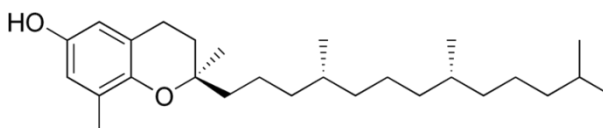


CAS number: 119-13-1

EINECS No.: 204-299-0

Chemical Formula: C<sub>27</sub>H<sub>46</sub>O<sub>2</sub>

Molecular Weight: 402.64



### Description

Mixed Tocopherols Oil 25% contains natural mixed tocopherols which are obtained from soy oil by suitable physical means. Tocobest™ Mixed Tocopherols Oil 25% is intended for use as an antioxidant in the dietary supplement, food and cosmetic industry.

### Solubility

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

### Specification

| Item              | Specification                      | Test Method  |
|-------------------|------------------------------------|--------------|
| Appearance        | A light yellow to brownish red oil | Organoleptic |
| Taste             | Mild characteristic                | Organoleptic |
| Specific rotation | Min +20°                           | USP<781>     |
| Acidity           | Max 1ml                            | USP          |

|                    |                            |          |
|--------------------|----------------------------|----------|
| Density(25°C)      | 0.92-0.96g/cm <sup>3</sup> | In-house |
| Total tocopherols  | Min 25%                    | HPLC     |
| Content of d-α     | 1.5~5.5%                   | HPLC     |
| Content of d-γ     | 7.5-19.5%                  | HPLC     |
| Content of d-δ     | 6-16%                      | HPLC     |
| Pesticide Residues | Max 2ppm                   | USP      |
| Heavy metals       | Max 10 mg/kg               | USP<231> |
| Arsenic            | Max 3 mg/kg                | ICP-MS   |
| Total plate count  | Max 1000 CFU/g             | USP<61>  |
| Total yeast & mold | Max 25 CFU/g               | USP<61>  |
| <i>E. Coli</i>     | Max 40MPN/100 g            | USP<61>  |
| <i>Salmonella</i>  | Max 30MPN/100 g            | USP<61>  |

## Ingredients

NLT 25% Mixed tocopherols(D-alpha-, beta-, gamma- & delta-): d-α≈1.5~5.5%, d-γ≈7.5~19.5%,d-δ≈6~16%, with 75% refined and distilled soy oil as carrier.(m is short for soy oil)

## Labeling

In the United States and the European Union:Tocobest™Vitamin E Oil  
Mixed Tocopherols Oil 25%

## Applications

It is used as a nutrient in edible oil, dairy products, flesh products, nutritional and pharmaceutical preparations such as soft-shell capsule, and also used widely in cosmetics.

## 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

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

## Packaging, Storage & Shelf Life

|            |   |
|------------|---|
| Package    | 25kg/drum, 50kg/drum, or 190kg/drum;or according to customers' requirements.                      |
| Storage    | Store in a tightly closed container. Store in a cool, dry area away from incompatible substances. |
| Shelf Life | The product may be stored for 24 months if sealed and stored properly.                            |