

TECHNICAL DATA SHEET

Tocobest™ D-alpha-tocopheryl Acetate Oil

1360 IU m

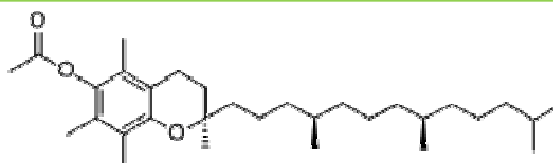
Chemical Properties

CAS No.: 58-95-7

EINECS No.: 200-405-4

Chemical Formula: C₃₁H₅₂O₃

Molecular Weight: 472.75



Description

Vitamin E acetate, also called tocopherol acetate, is a dry form of vitamin E that is commonly referred to as tocopherols. The acetate form is an ester, which has a much greater stability than unesterified tocopherols. One of the principle differences between the dry and oil forms of this vitamin is that the former has no immediate antioxidant properties. An antioxidant is a substance present in many all natural foods that are rich in nutrients. They help to retard the aging of cells and play a vital role in protection against free radicals.

Solubility

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

Specification

Item	Specification	Test Method
Appearance	Clear, yellow viscous oil	Organoleptic
Taste	Mild, characteristic	Organoleptic
Color	Pale yellow	Organoleptic
Odor	Typical vegetable oil	Organoleptic
Identification	Meet USP A/B/C	HPLC
Assay(D-alpha-Tocopheryl Acetate)	Min 96.0% Min 1306IU/g	HPLC
Acidity	Max 0.5ml	USP
Specific rotation[α] _D ²⁵	Min +24°	USP<781>
Refractive index n _D ²⁰	1.494~1.499	USP
Absorbance1% 1cm (284nm)	41.0~45.0	USP
Residual solvents	Meet USP <467>	USP <467>
Heavy Metals(as Pb)	Max10 ppm	USP <467>
Lead	Max 0.5 ppm	ICP-MS
Arsenic	Max 1.0 ppm	ICP-MS
Mercury	Max 0.1ppm	ICP-MS

Cadmium	Max 1.0 ppm	ICP-MS
Total plate count	Max 1000 CFU/g	USP<61>
Yeast & mold	Max 100 CFU/g	USP<61>
<i>E. Coli</i>	Negative	USP<61>

Ingredients

Min 96% D-alpha-tocopheryl acetate, soybean oil 4%. (m is short for soybean oil)

Labeling

In the United States and the European Union: Tocobest™ Natural Vitamin E Acetate Oil;
D-alpha-Tocopheryl Acetate

Applications

It has been used in developing dietary supplement and food industry. Used for fortification of margarine, oil and fat, nutrition products and baby food, also used in soft capsules and 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

D-alpha tocopheryl acetate oil 1306IU may crystallize upon exposure to cold temperatures. If crystallization occurs, gently heat the product at 45-50°C until it returns to its liquid state and the treatment will not affect the potency or stability. 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 according to customers' requirements.
Storage	Store in tightly closed containers, cool and dry. Protect from heat, light and oxygen
Shelf Life	24 months after the date of manufacture.