

### Product Name

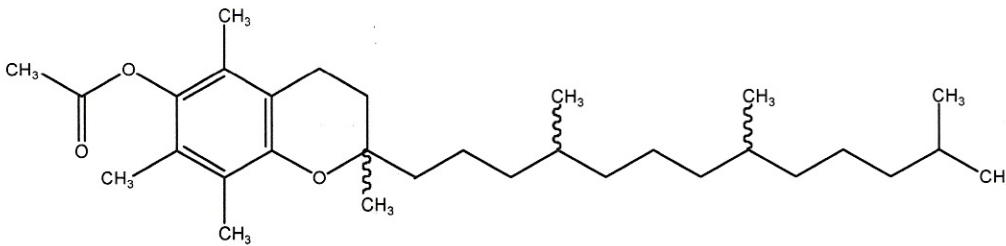
D-alpha Tocopheryl Acetate 1360IU

### General Product Information

D-alpha tocopheryl acetate oil is a clear, colorless to light yellow oily liquid, with mild taste and odor. The active substance in d-alpha tocopherol acetate oil is d-alpha tocopherol acetate, which is an acetate ester of natural vitamin E, and is more stable than non-acetate forms of tocopherol. It is used for nutrient supplement-soft gels; nutrients in cosmetics, nutritional foods.

### Molecular structure

D-alpha tocopheryl acetate



Empirical formula: C<sub>31</sub>H<sub>52</sub>O<sub>3</sub>

Mol weight: 472.75

CAS No.: 58-95-7

### Formulation Composition

D-alpha tocopheryl acetate 100%

### Specifications

| Items   | Standard requirements  | Method   |
|---|--|----------|
| Identification                                      |  |          |
| 1 Color reaction                                    | 1 Positive   | USP      |
| 2 Specific Rotation[α] <sub>D</sub> <sup>25°C</sup> | 2 ≥+24°  | USP<781> |
| 3 Retention Time                                    | 3 The retention time of the major peak in the test solution is the same as that of the standard preparation. | USP      |
| Assay   | 96.0%~102.0%<br>≥1306 IU   | USP      |
| Acidity   | ≤1.0 ml  | USP      |
| *Benzo(a)Pyrene                                     | ≤2 ppb   | GC-MS    |
| Solvent residue-Hexane                              | ≤290 ppm   | USP<467> |
| *Heavy Metals                                       |  |          |
| Lead  | ≤1 mg/kg   | AAS      |
| Arsenic   | ≤1 mg/kg   | AFS      |
| Cadmium   | ≤1 mg/kg   | AAS      |
| Mercury   | ≤0.1 mg/kg   | AFS      |

**\*Microbiology**

|                       |                |         |
|-----------------------|----------------|---------|
| Aerobic Plate Count   | ≤ 1000 (cfu/g) | USP<61> |
| Yeast and Molds       | ≤ 100 (cfu/g)  | USP<61> |
| Escherichia Coli      | Negative/g     | USP<62> |
| Salmonella            | Negative/25g   | USP<62> |
| Staphylococcus Aureus | Negative/10g   | USP<62> |

**Remarks:** \*Tested periodically to ensure the requirements are met.

**Solubility**

Insoluble in water; soluble in ethanol; miscible with organic solvents, vegetable oils and fats.

**Allergens**

Below table indicates the presence of the following allergens and products there of:

| Yes | No | Allergens                             | Description |
|-----|----|---------------------------------------|-------------|
|     | ×  | Wheat                                 |             |
|     | ×  | Other cereals contain gluten          |             |
|     | ×  | Crustaceans                           |             |
|     | ×  | Eggs                                  |             |
|     | ×  | Fish                                  |             |
|     | ×  | Peanuts                               |             |
|     | ×  | Soybeans                              |             |
|     | ×  | Milk(including lactose)               |             |
|     | ×  | Nuts                                  |             |
|     | ×  | Celery                                |             |
|     | ×  | Mustard                               |             |
|     | ×  | Sesame seeds                          |             |
|     | ×  | Sulphur dioxide and sulphites(>10ppm) |             |
|     | ×  | Lupin                                 |             |
|     | ×  | Molluscs                              |             |

According to: (EU) NO 1169/2011 and FDA “FALCPA”.

**Packaging, Storage and Shelf Life**

20/25/50/200kg steel drum.

Store in tightly closed containers, protect from light and oxygen. After opening, use up immediately or seal with nitrogen for its further storage.

The shelf life in sealed, original containers under normal storage conditions is at least 24 months after date of manufacture. Stable to acid; unstable to alkali and oxidizing agents. The esterified form of vitamin E is stable to light and oxygen, however, exposure should be limited.