Chemical names of active ingredient
Vitamin E, DL-α-tocopherol, all-rac-alpha-tocopherol, racemic 5,7,8-trimethyltocol

EU name
DL-α-tocopherol E307

CAS-No. 10191-41-0
EINECS-No. 233-466-0

PRD-No. 30054571*
* The product is kosher.

Articles
55434701  5 kg plastic can
55434224  25 kg plastic bucket

Country of origin
Germany

Units
1 International Unit (IU) = 0.91 mg DL-α-tocopherol

Description
Viscous, yellow to brown oil.

Solubility
Soluble in hydrocarbons, chlorinated hydrocarbons, alcohol, fats, and oils; insoluble in water.

Specification
Assay (Ph. Eur. / USP/FCC) min. 96% max. 102%


Unless otherwise stated, the methods of analysis can be found in the Ph. Eur.

Monographs
The product complies with the current “All-rac-α-tocopherol” Ph. Eur., “Vitamin E” USP, “All-rac-alpha-tocopherol” FCC monographs, as well as the “E307” EC directives on food additives.

Regulations
DL-alpha-Tocopherol is approved for use as an antioxidant and as a vitamin E source in most countries. However, specific regulations on the product in the respective countries and for its intended use have to be observed.

Stability
DL-alpha-Tocopherol is sensitive to oxidizing agents, turning dark when exposed to air and light. Stored in its unopened original packaging at room temperature (max. 25 °C), the product is stable for up to 36 months.

Storage/Handling
The product should be stored tightly sealed in a dry place, protected from light at max. 25 °C. Once opened, it is recommended to flush the packaging with an inert gas and to use the remaining contents as quickly as possible.

Applications
Dietary supplements: DL-alpha-Tocopherol is used mainly as an antioxidant in preparations containing fat (ointments, creams, and oils). The vitamin E acetate is more stable and therefore preferred as an active ingredient.
Pharmaceutical products:
CEP (No. 2005-39) is available.

Sterilization of the final product is required for parenteral use. Further information can be found in the book “Functions and Applications of BASF Pharmaceutical Excipients.”

Food products:
DL-alpha-Tocopherol is used as an antioxidant to increase the stability of fats (oils, margarine, baking and frying fats, fish oil), fatty products (ready-made desserts containing cream, soup powders, cocoa, dietetic and frozen products, potato crisps, essences, and chewing gum), and to protect vitamin A and carotene in oils and other food products. Regular quantities are between 200 and 500 mg/kg of fat and up to 1,000 mg/kg is used in essences and chewing gum. By adding tocopherol, the shelf life of meat products sensitive to oxidation (particularly pork and turkey) can be improved. The acetate is more stable and therefore preferred for the fortification of food products with vitamin E.

Cosmetics:
The product is used as an antioxidant and active ingredient in cosmetic preparations containing fat, e.g., creams, ointments, emulsions, body and face oils, and decorative cosmetics, such as lipstick, etc.

Note
DL-alpha-Tocopherol must be handled in accordance with the Safety Data Sheet.

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November 2009