DL-alpha-Tocopherol

Vitamin E (DL-alpha-tocopherol, *all-rac*-alpha-tocopherol) oil, pure

Chemical name(s) of active ingredient

Vitamin E, *all-rac*-alpha-tocopherol, DL-alpha-tocopherol, racemic 5,7,8-trimethyltocol

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

PRD

30054571

Articles

50563943	4 x 5 kg fibreboard box
55434224	25 kg plastic drum
53872051	900 kg composite IBC
50033453	0.1 kg aluminum drums

Units

1 mg DL (= *all-rac*)-alpha-tocopherol = 0.50 mg D (= *RRR*)-alpha-tocopherol equivalent = 1.1 International Units (IU)

Description

Viscous, clear, yellow to brown oil. The product is packed under inert gas.

Benefits

Vegetarian/vegan[1], kosher, halal, allergen-free[2], gluten-free[3]

Composition

All-rac-alpha-tocopherol (DL-alpha-tocopherol)

Solubility

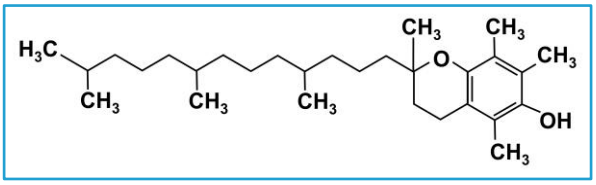
Soluble in hydrocarbons, chlorinated hydrocarbons, alcohol, fats and oils. Insoluble in water.

Specification

Assay *all-rac*-alpha-tocopherol	min. 96.0% (= 960 mg/g vitamin E) max. 102.0% (= 1020 mg/g vitamin E)

For further information see *Product Specification* (not for regulatory purposes) available in BASF's MyBASFWorld:

https://my.basf.com/



$C_{29}H_{50}O_2$ **430.7 g/mol**

Regulations

For quality documentation and compliance please see *Quality & Regulatory Product Information* and *Product Specification*. DL-alpha-Tocopherol is approved for use as an antioxidant and as a vitamin E source in most countries. It is the obligation of the user to check the regulations on the ingredients used in the respective countries and for the intended use.

Stability and storage

DL-alpha-Tocopherol is sensitive to light, heat and oxygen (turning dark) and needs to be stored in a light-proof and airtight container. Stored in its unopened, original packaging at temperatures not above 25 °C, in a dry place, protected from light, the product is stable for at least 36 months.

Handling

It is recommended to use up the remaining contents quickly once the package has been opened.

Applications

For preparations with a lipophilic base, e.g., softgels, syrups and emulsions, ointments and creams, but also for other matrices, e.g., in gummies or drops.

In the nutrition industry, DL-alpha-Tocopherol is used as an antioxidant to increase the stability of fats (e.g., oils, margarine, baking and frying fats, fish oil), fatty products (e.g., ready-made desserts containing cream, soup powders, cocoa, dietetic and frozen products, potato crisps, essences, and chewing gum), and to protect vitamin A and beta-carotene in oils and other food products. By adding tocopherol, the shelf life of meat products sensitive to oxidation (particularly pork and turkey) can be improved.

Suitability of these applications is presented based solely on technical feasibility. Local prevailing legal or regulatory requirements are not considered and should be observed separately. This product is not intended and recommended by BASF for use in food for infants and young children and has not been qualified by BASF for use in those applications with specific requirements. BASF is not testing or manufacturing the product to meet requirements which are applicable for these applications. BASF disclaims any representations, warranties and guarantees of fitness for such particular uses.

Note

The product must be handled in accordance with the *Safety Data Sheet*.

[1] According to International Standard ISO 23662 on definitions and technical criteria for foods and food ingredients suitable for vegetarians or vegans and for labelling and claims.
[2] No labeling requirements with regard to allergens according to EU regulation (EC) No 1169/2011 (as amended) and the US Food Allergen Labeling and Consumer Protection Act (FALCPA).
[3] No ingredients used containing gluten. However, products are not explicitly tested on gluten.

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