

Chemical names of active ingredient

5,7,8-trimethyltolcol or RRR-alpha-tocopherol or D-alpha-tocopherol,
5,8-dimethyltolcol or RRR-beta-tocopherol or D-beta-tocopherol,
7,8-dimethyltolcol or RRR-gamma-tocopherol or D-gamma-tocopherol,
8-methyltolcol or RRR-delta-tocopherol or D-delta-tocopherol

EU: Tocopherol-rich extract (E 306)

US: Natural mixed tocopherols

CAS-No.		
	D-alpha-tocopherol	59-02-9
	D-beta-tocopherol	16698-35-4
	D-gamma-tocopherol	54-28-4
	D-delta-tocopherol	119-13-1

EINECS-No.		
	D-alpha-tocopherol	200-412-2
	D-beta-tocopherol	240-747-1
	D-gamma-tocopherol	200-201-5
	D-delta-tocopherol	204-299-0

PRD-No.

30528322*

*The product is kosher

Articles

50207463	10 kg fibre drum
50207464	25 kg fibre drum

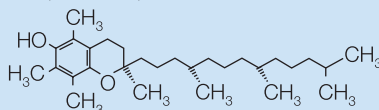
Country of origin

USA

Description

Covi-ox[®] T-30 P is a water-dispersible fine powder which is light tan to cream in color with a bland odor and taste. It contains natural mixed tocopherols which are obtained from edible vegetable oils by suitable physical means. Covi-ox[®] T-30 P is made by spray drying the active ingredient onto gum acacia.

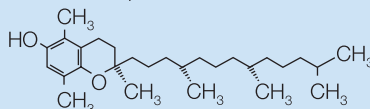
D-alpha-tocopherol



$C_{29}H_{50}O_2$

Molar mass 430.7 g/mol

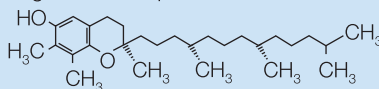
D-beta-tocopherol



$C_{28}H_{48}O_2$

Molar mass 416.7 g/mol

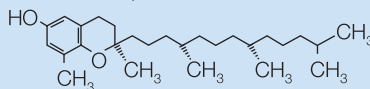
D-gamma-tocopherol



$C_{28}H_{48}O_2$

Molar mass 416.7 g/mol

D-delta-tocopherol



$C_{27}H_{46}O_2$

Molar mass 402.6 g/mol

Composition

Ingredients in descending order of weight: gum arabic (acacia gum), tocopherol-rich extract* (E 306), soybean oil

* mainly derived from soy beans

The typical tocopherol composition is:

14% D-alpha-tocopherol
2% D-beta-tocopherol
60% D-gamma-tocopherol
24% D-delta-tocopherol

Due to the variability of vegetable oil feedstocks used to derive the tocopherols, slight variations from this typical composition will be found, wide variations are not expected but they may occur.

Solubility

Insoluble in vegetable oils and in organic solvents, but dispersible in water.

Specification

Assay (tocopherols)	min. 300 mg/g
Assay (non-alpha-tocopherols)	min. 240 mg/g

For further information see separate document: "Standard Specification" (not for regulatory purposes) available via BASF's WorldAccount: <https://worldaccount.basf.com> (registered access).

Monographs

The active ingredient of Covi-ox® T-30 P meets the monograph requirements of the current USP-NF and FCC (RRR-Tocopherols Concentrate, Mixed, Low-alpha-Type). Furthermore, the active ingredient complies with current specification for food additives of EU Regulation (E 306).

Regulations

Covi-ox® T-30 P is derived from genetically modified vegetable and is thus subject to labeling under EU Regulations (EC) 1829/2003 and 1830/2003 (the product is PCR negative).

Mixed tocopherols are approved for a 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.

Bulk density

0.25 – 0.45 g/ml

Stability, Storage and Handling

Stored in its unopened original packaging at ambient temperature max. 25 to 30 °C, the product is stable for at least 12 months. The product is sensitive to atmospheric oxygen, light and heat. It should therefore be stored in the tightly sealed, lightproof packaging in a cool place. Once opened, it is recommended to use the remaining contents as quickly as possible.

Applications

Dietary supplements and Food products:

Covi-ox® T-30 P is used as a natural antioxidant in a wide variety of products. Covi-ox® T-30 P mixes well with dry ingredients and also disperses well in water.

Covi-ox® T-30 P is not intended for tablets or capsules, because it will not withstand the pressure applied during tableting or encapsulation.

The amount of Covi-ox® T-30 P to be used will vary with each particular application. For most oils and fats, the recommended concentration of tocopherols in the product will range from 100 ppm to 400 ppm relative to the fat or oil content. For oils containing highly polyunsaturated fatty acids, tocopherol concentrations of up to 2000 ppm relative to the oil content may be necessary. It is recommended to test 3 different mixed tocopherol concentrations to determine the optimum level which gives the desired antioxidant protection for each individual product.

Note

Covi-ox® T-30 P must be handled in accordance with the Safety Data Sheet.

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July 2014