

Covitol® F-80/20M

Chemical names of active ingredient

Vitamin E

D-alpha-tocopherol

2R,4'R,8'R-alpha-tocopherol

5,7,8-trimethyltolcol

RRR-alpha-tocopherol

CAS-No. 59-02-9

EINECS-No. 200-412-2

PRD-No.

30528294*

*The product is kosher

Articles**

50211482 10 kg plastic pail

50229908 190 kg metal drum

**Packed under inert gas

Country of origin

USA

Units

Biological activity and equivalencies:

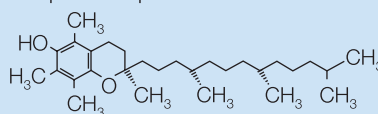
1 mg D-alpha-tocopherol = 1.49 IU
= 1.0 mg alpha-TE

Description

Covitol® F-80 /20M is a clear, brownish-red viscous oil with mild taste and odor. It contains natural source D-alpha-tocopherol with natural mixed tocopherols, which are derived from natural sources, i.e. from edible vegetable oils and is produced by suitable physical and chemical means.

The major active substance in Covitol® F-80/20M is D-alpha-tocopherol. The vitamin E activity of D-beta-, D-gamma-, and D-delta-tocopherol is lower than of D-alpha-tocopherol.

D-alpha-tocopherol



$C_{29}H_{50}O_2$

Molar mass 430.7 g/mol

Composition

Ingredients in descending order of weight:

D-alpha-tocopherol*, soy bean oil and natural mixed tocopherols*.

*mainly derived from soybeans

Due to the natural raw materials and the manufacturing process applied, small amounts of other vegetable oil constituents may be present.

Solubility

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

Specification

Assay	Min. 537 mg/g D-alpha-tocopherol (= 800 IU of Vitamin E)
	Min. 190 mg/g non-alpha-tocopherols

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

Monographs

Covitol® F-80/20M meets the monograph requirements of the current USP (Vitamin E preparation) and FCC (RRR-alpha-tocopherol concentrate, Mixed, High-alpha-Type).

Regulations

Covitol® F-80/20M 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).

D-alpha-Tocopherol, the active ingredient in Covitol® F-80/20M is approved for the 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, Storage and Handling

Stored in its unopened original packaging at 10 – 30 °C (i.e. 50 – 85 °F, do not refrigerate), Covitol F-80/20M is stable for at least 36 months. At max. 50 °C the product is stable for at least 12 months.

The product should be stored tightly sealed in a cool and dry place, protected from heat, light and oxygen.

It darkens slowly upon exposure to air and light. Furthermore, it is particularly unstable in the presence of oxidizing agents or in alkaline media. Once opened, it is recommended to flush the packaging with an inert gas and to use the remaining content as quickly as possible.

Applications

Dietary supplements and Food products:

Covitol® F-80/20M is intended for use as vitamin E in dietary supplements (e.g. soft gelatin capsules) and foods.

Note

Covitol® F-80/20M must be handled in accordance with the Safety Data Sheet.

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