

Vitamin D₃ 1.0 mio. I.U./g

Chemical name

Cholecalciferol

CAS No.	67-97-0
EINECS No.	204-673-2

Product numbers

10235019 kosher

Description

Clear, colourless to slightly yellowish oil at room temperature. It has a mild odour.

Composition

The product consists of crystalline vitamin D₃ dissolved in medium chain triglycerides. It contains dl- α -tocopherol (E 307) as antioxidant agent.

Solubility

Soluble in hydrocarbons, chlorinated hydrocarbons, ether, fats and oils.

Note: Due to degradation of vitamin D₃ by peroxides, it is important that the solvent is free of peroxides.

The product can be dispersed in warm water (35-40°C) to form a milky emulsion.

Specification

Assay:	min. 1.0 mio. I.U. vitamin D ₃ per gram (= 25,000 μ g cholecalciferol per gram)
DL- α -tocopherol:	min. 2.5 mg/g
Acid value:	max. 2.0
Peroxides:	max. 20 meq/kg

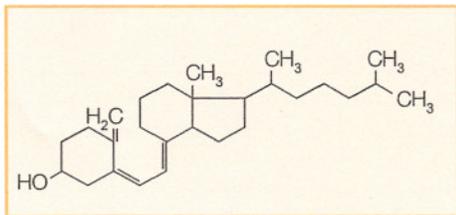
Monographs

The vitamin complies with the current Ph.Eur. and USP monographs.

Standard packaging

1 and 25 kg.

For further information please see appendix I.



C₂₈H₄₄O

Molar mass 384.6 g/mol

Stabilization/Stability¹

The product is stabilized with DL- α -tocopherol (E 307). It is sensitive to oxygen, light and heat. The product is stable for at least 24 months when it is stored in the unopened original containers in a cool place (8-15°C).

Storage

The product should be stored in a cool place (8-15 °C) in the unopened original containers. It is recommended to flush containers with an inert gas once they have been opened and to use up the remaining contents as quickly as possible.

Applications

Pharmaceutical preparations:

The product is suitable for pharmaceutical preparations with a lipophilic base, e.g. soft gelatin capsules, oily solutions, drops, for ointments and creams.

Food products:

For fortifying fatty foods such as margarine, spreads, oils, milk and milk products. In margarine 25-75 g (1,000-3,000 I.U.) of vitamin D₃, calculated as cholecalciferol, are usually added per kg of margarine.

Note

Vitamin D₃ 1.0 mio. I.U./g must be handled in accordance with the Safety Data Sheet.

¹ Detailed information is available on the subjects given below. Please quote the reference number.

- Origin of Vitamin D₃ Raw Material TI-9 2/EP/1