

# Dry Vitamin D<sub>3</sub> 100 GFP

## Chemical name

Cholecalciferol

## CAS No.

67-97-0

## EINECS No.

200-673-2

## Product number

10305695 kosher

## Description

Free-flowing white powder consisting of spherical particles.

## Composition

The powder particles contain vitamin D<sub>3</sub> dissolved in medium chain triglycerides in droplets of 1–2 µm embedded in a matrix of gum arabic (E 414) and sucrose, and coated with starch. The product contains DL-alpha-tocopherol (E 307, USP/FCC) as an antioxidant and tricalcium phosphate (E 341) as an anti-caking agent.

## Solubility

The product can be dispersed even in cold water at 10°C, to form a stable milky emulsion. Practically no vitamin D can be extracted from the powder with ether.

## Specification

Assay:	min. 100,000 I.U. vitamin D <sub>3</sub> /g (= 2,500 µg ergocalciferol/g)
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Loss on drying:	≤ 5% (4 hours at 105°C)
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## Monographs

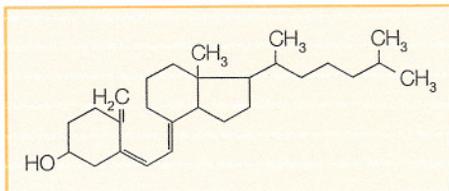
The active ingredient complies with the current Ph.Eur. and USP monographs.

## Particle-size distribution

100% smaller than 850 µm (20 mesh USP)  
min. 90% smaller than 425 µm (40 mesh USP)  
max. 15% smaller than 150 µm (100 mesh USP)

## Bulk density

Approx. 0.6 g/ml



C<sub>27</sub>H<sub>44</sub>O

Molar mass 384.7 g/mol

## Stabilization/Stability<sup>1</sup>

The product is stabilized with DL-alpha-tocopherol (E 307). The stability of the vitamin D<sub>3</sub> both in the original container and in food products to which the product has been added is very good.

The product is stable for at least 24 months when it is stored in the unopened original containers at room temperature (max. 25°C).

## Standard packaging

5 and 25 kg.

For further information please see appendix I.

## Storage

The product should be stored in the original containers in a cool (8–15°C), dry place.

## Applications

### Food products:

This dry powder has been developed for fortifying powder products such as baby and children's food, dietetic foods, milk powder and for vitamin mixtures in the food industry. It is suitable for the manufacture of hypoallergenic food products, as it contains no protein.

### Pharmaceutical preparations:

Can be used in multivitamin preparations.

## Note

Dry Vitamin D<sub>3</sub> 100 GFP must be handled in accordance with the Safety Data Sheet.

<sup>1</sup> Detailed information is available on the subjects given below. Please quote the reference number.

- Vitamin D Determination in Coated Products, Ti-1 96.LH-EP
- Origin of Vitamin D<sub>3</sub> Raw Material TI-9 2/EP