

Calcium D-Pantothenate

Chemical names of active ingredient

Calcium D-pantothenate, calcium R-pantothenate, vitamin B₅

CAS-No. 137-08-6

EINECS-No. 205-278-9

PRD-No.
30041195*

* The product is kosher.

Article

50011091 25 kg bag in box

Country of origin

Germany

Description

White, slightly hygroscopic, almost odorless powder with a slightly bitter taste.

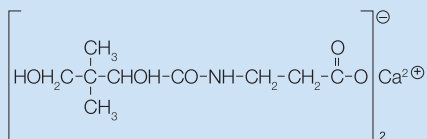
Composition

Ingredients in descending order of weight:
D-pantothenate, calcium (vitamin B₅)

Solubility

Readily soluble in water, soluble in glycerol, somewhat soluble in ethanol, and virtually insoluble in ether and chloroform.

Calcium D-pantothenate



C₁₈H₃₂CaN₂O₁₀ Molar mass 476.6 g/mol

Specification

Assay 98.0 – 101.0%

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

Unless otherwise stated, the methods of analysis can be found in the Ph. Eur.

Monographs

The product complies with the current "Calcium Pantothenate" Ph. Eur., the "Calcium Pantothenate" USP, the "Calcium Pantothenate" FCC monographs and "Calcium Pantothenate" IP monographs.

Regulations

The product meets the regulatory requirements for a source of pantothenic acid in most countries. However, regulations in the respective countries and for the intended use have to be observed.

Bulk density

Approx. 0.6 g/ml

Stability

Stored in its unopened original packaging at room temperature (max. 25 °C), the product is stable for at least 36 months. It is hydrolyzed by strong alkalis and acids and is slightly hygroscopic.

Storage/Handling

The product should be stored in the tightly sealed original packaging in a dry place at temperatures below 25 °C.

Applications

Dietary supplements:

Calcium D-pantothenate is best used in solid dosage forms (tablets, sugar-coated tablets, effervescent tablets, film-coated tablets, chewable tablets, capsules). The product is hygroscopic. It is suitable for direct compression.

In liquid and semi-solid dosage forms, particularly when used in combination with other vitamins, D-panthenol (= provitamin B₅) is preferable to Calcium D-Pantothenate, because it is more stable.

Food products:

In the ingredients and food industry, Calcium D-pantothenate is added to a number of food applications. It is also used for the fortification of fruit, vegetable and multivitamin juices, confectionery, isotonic beverages, instant-drink powders, milk and other dairy products, breakfast cereal, etc.

Pharmaceutical products:

An ASFM (CTD) is available.

Note

Calcium D-Pantothenate must be handled in accordance with the Safety Data Sheet.

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