

Beta-Carotene 10% DC



Chemical names of active ingredient

Beta-carotene, provitamin A

CAS-No. 7235-40-7

EINECS-No. 230-636-6

PRD-No.
30061834

Article

50097700 25 kg bag in box

Country of origin

Denmark

Description

Free-flowing, dark-red powder with a mild characteristic odor, consisting of spherical particles, with a uniform particle size. Some white starch particles may be visible.

Composition

Ingredients in descending order of weight: gelatin, sucrose, corn starch, beta-carotene, tocopherol (E306), sodium ascorbate, tricalcium phosphate, ascorbyl palmitate

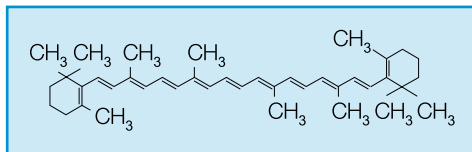
Solubility

Dispersible in warm water (35 – 40 °C), to form a stable orange dispersion.

Specification

Assay min. 10%

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



$C_{40}H_{56}$

Molar mass 536.9 g/mol

Monographs

The active ingredient complies with the current "Beta-carotene" Ph. Eur. and "β-Carotene" FCC monographs, as well as the purity requirements of Directive 2008/128/EC (E160 a).

Regulations

Beta-carotene is approved for use as a food colorant and as a provitamin A source in most countries. However, specific regulations on the ingredients used in the respective countries and for the intended use have to be observed.

Bulk density

Approx. 0.6 g/ml

Stability

The product is stabilized with tocopherol (E306), sodium ascorbate (E301), and ascorbyl palmitate (E304).

The stability of Beta-Carotene 10% DC is excellent even in the presence of minerals. The product has a high mechanical integrity and little or none of the beta-carotene is expressed during tableting, resulting in good stability of the tablets. Stored in its original packaging at room temperature (max. 25 °C), the product is stable for at least 36 months.

Storage/Handling

The product is sensitive to oxygen, light, heat, and moisture and should therefore be stored in the tightly sealed original packaging at room temperature (max. 25 °C), in a dry and dark place.

Applications

Dietary supplements:

Beta-carotene dry powders are used as provitamin A in solid multivitamin preparations, because no Upper Safe Level for the use of beta-carotene as provitamin A has been established unlike for vitamin A.

Beta-Carotene 10% DC is used both as provitamin A and as an active ingredient.

It is particularly suitable for use in multivitamin/mineral tablets and beta-carotene tablets, as well as hard gelatin capsules due to its excellent flow properties.

Food products:

Due to its composition, Beta-Carotene 10% DC is especially suitable for use in food supplement preparations such as plain tablets, effervescent tablets, and sugar-coated tablets.

Note

Beta-Carotene 10% DC must be handled in accordance with the Safety Data Sheet.

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November 2009