

# 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: corn starch, gelatin, sucrose, beta-carotene, tocopherol-rich extract, sodium ascorbate, tricalcium phosphate, ascorbyl palmitate.

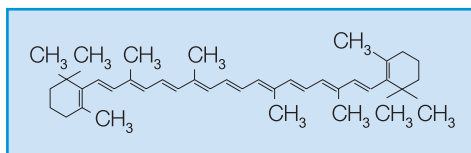
## Solubility

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 of Beta-Carotene 10% DC meets the requirements of the current "Beta-Carotene" Ph. Eur. monograph and "β-Carotene" monograph FCC 8 effective from June 1<sup>st</sup> 2012. Furthermore the active ingredient of Beta-Carotene 10% DC (E 160a (i)) complies with the EU regulation laying down specifications for food additives.

## 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 (E 306), sodium ascorbate (E 301), and ascorbyl palmitate (E 304).

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.

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 coated tablets.

## Note

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

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