

# Beta-Carotene 20% GFP

## Chemical names of active ingredient

Beta-carotene, provitamin A

**CAS-No.** 7235-40-7

**EINECS-No.** 230-636-6

## PRD-No.

30796312\*

\*The product is kosher and halal.

## Article

50775315 25 kg bag in box

## Country of origin

Denmark

## Description

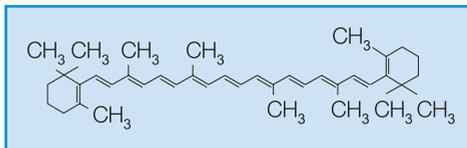
Free-flowing, dark-red powder with a mild characteristic odor, consisting of spherical particles with a uniform particle size. Some white starch particles may be visible.

## Composition

Ingredients in descending order of weight: isomalt (E 953), beta-carotene (E 160a), starch octenyl succinate (E 1450), corn starch, sodium ascorbate (E 301), ascorbic acid (E 300), tricalcium phosphate (E 341).

## Solubility

The product can be dissolved in cold water (10 °C) to obtain an orange-red dispersion which remains uniform for a long time.



**(Main) active(s):** beta-carotene

**Molecular formula:** C<sub>40</sub>H<sub>56</sub>

**Molar mass:** 536.9 g/mol

## Specification

Assay Beta-Carotene ≥ 20.0%

For further information see separate document: "Product Specification" (not for regulatory purposes).

## Monographs

The active ingredient of Beta-Carotene 20% GFP meets the requirements of the current FCC (β-Carotene), Ph.Eur. (Betacarotene) and USP (Beta Carotene) monographs. The active ingredient also complies to the current JECFA monograph for β-CAROTENE, synthetic (INS 160a(i)) and the current specification for Beta-Carotene (E 160a(i)) of the European Regulation (EU) No 231/2012.

## 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 sodium ascorbate (E 301) and ascorbic acid (E 300). It is sensitive to humidity. Stored in its original packaging at room temperature (max. 25 °C), it is stable for at least 36 months.

### Storage/Handling

In the original packaging at room temperature (max. 25 °C), in a dry place, protected from daylight.

### Applications

Used in tablets, including effervescent tablets and other dietary supplement applications.

The stability of Beta-Carotene 20% GFP 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.

### Note

Beta-Carotene 20% GFP must be handled in accordance with the Safety Data Sheet.

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