

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

Article

50775315 25 kg bag in box

Country of origin

Denmark

Description

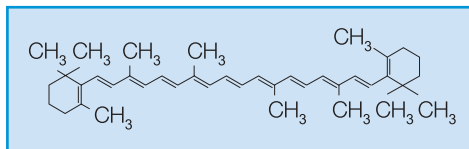
Free-flowing, dark-red powder with a mild characteristic odor, consisting of spherical particles with a uniform particle size. Some white starch particles may be visible.

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: C₄₀H₅₆

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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