

# Lucarotin® 10 CWD F/O

## Chemical names of active ingredient

Beta-carotene, provitamin A

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

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

**PRD-No.**  
30153296\*

\* The product is kosher.

## Article

50563967 2 x 5 kg bag in box

## Country of origin

Germany

## Description

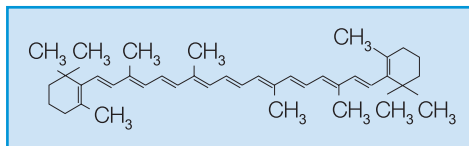
Fine, free-flowing, brown-red powder with a mild characteristic odor.

## Composition

Ingredients in descending order of weight: glucose syrup, fish gelatine, beta-carotene (E 160a), medium-chain triglycerides, ascorbyl palmitate (E 304), DL-alpha-tocopherol (E 307), tricalcium phosphate (E 341)

## Solubility

The product can be scattered into stirred cold water (CWD = cold-water dispersible), to obtain a fine dispersion with an orange-yellow color.



$C_{40}H_{56}$

Molar mass 536.9 g/mol

## Specification

Assay  $\geq 10.0$  g/100 g

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

## Monographs

The active ingredient of Lucarotin® 10 CWD F/O meets the requirements of the current FCC ( $\beta$ -Carotene), Ph.Eur. (Betacarotene) and USP (Beta Carotene) monographs. The active ingredient also complies to the current JECFA monograph for  $\beta$ -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

0.40 – 0.55 g/ml

### Stability

The product is stabilized with DL- $\alpha$ -tocopherol (E307) and ascorbyl palmitate (E304). Stored in its unopened original packaging at room temperature (max. 25 °C), it is stable for at least 36 months.

### Storage/Handling

The product is sensitive to oxygen, light, heat, and moisture. It should therefore be stored in the tightly sealed, lightproof packaging in a cool place. Once opened, it is recommended to use the remaining contents as quickly as possible.

### Applications

#### Food products:

One of the main advantages of Lucarotin® 10 CWD F/O is its excellent dispersibility in cold water, thereby saving time and energy otherwise required for heating the product. The powder disperses very readily at room temperature in aqueous media to form a fine dispersion of beta-carotene particles. The powder can either be added directly during the production process or added slowly to 20 – 100 times its weight of water. Stock dispersions are prepared by slowly scattering the product into stirred water in the required proportions. They should always be prepared for immediate use only.

Lucarotin® CWD F/O is particularly suitable as a colorant in fruit juices, fruit beverages, lemonades, and other products based on fruit juice concentrates, which may also contain ascorbic acid. In addition, it can be used as a colorant in instant-drink powders, confectionery, candied fruits, biscuits, chewing gum, ice cream, custard powder, soup powders, milk shakes, fermented milk products, pasta, cheese, etc., as long as the use of beta-carotene as a colorant in any of these products is not forbidden by law.

Due to its excellent dispersibility in cold media, the product is suitable for use in vitamin mixtures for the fortification of foods with provitamin A.

### Note

Lucarotin® 10 CWD F/O must be handled in accordance with the Safety Data Sheet.

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