**Product Information**
**Product Data Sheet**

**β-Carotene 1% CWS/M**
Product code: 5003741

**Description**
β-Carotene 1% CWS/M is a fine powder. The individual particles consist of a solution of β-Carotene in Medium Chain Triglycerides finely dispersed in a matrix of Acacia, Sucrose and Dried Glucose Syrup.
dl-α-Tocopherol and Sodium Ascorbate are added as antioxidants, Silicon Dioxide as a processing aid.

**Product identification**
Product code: 50 0374 1
Chemical name: B-carotene
Synonyms: B,β -carotene; all-trans-β-carotene; provitamin A; INS 160a(i); CI Food Orange 5

- CAS No.: 7235-40-7
- EINECS No.: 230-636-6
- Colour Index No.: 40800
- INCI name: Beta-Carotene
- E No.: E 160 a(i)
- Empirical formula: C_{40}H_{56}
- Molecular mass: 536.88 g/mol

**Specifications**
Appearance: fine powder
Colour: orange
Fineness (US standard sieves):
- through sieve No. 80 min. 95 %
Loss on drying: max. 5 %
Dispersibility in water: dispersible
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Colour intensity of aqueous dispersion:
- A (1 %, 1 cm) at maximum min. 25

β-Carotene content:
min. 1 %

Microbiological purity:
- Total aerobic microbial count max. $10^3$ CFU/g
- Total combined yeasts/moulds count max. $10^2$ CFU/g
- Enterobacteria < 10 CFU/g
- Escherichia coli negative in 10 g
- Salmonella spp. negative in 25 g
- Staphylococcus aureus negative in 10 g
- Pseudomonas aeruginosa negative in 10 g

Dispersibility
**β-Carotene 1% CWS/M** is dispersible in water, yielding a yellow coloration.

Stability and storage
**β-Carotene 1% CWS/M** is sensitive to air, heat, light and humidity. The product may be stored for 30 months from the date of manufacture in the unopened original container and at a temperature below 15°C. The ‘best used before’ date is printed on the label. Keep container tightly closed. Once opened, use contents quickly.

Uses
**β-Carotene 1% CWS/M** can be used as a nutrient or colour in food applications including food/dietary supplements and as colouring matter in pharmaceutical preparations. A suitable stock solution can be prepared by adding slowly the desired quantity of powder to 10 - 15 times its weight of cold or warm water under continuous stirring.

Safety
**β-Carotene 1% CWS/M** is safe for the intended use. Avoid ingestion, inhalation of dust or direct contact by applying suitable protective measures and personal hygiene.

For full safety information and necessary precautions, please refer to the respective DSM Material Safety Data Sheet.
# Product Information

## Product Data Sheet

### β-Carotene 1% CWS/M

**Product code:** 5003741

## Additional information

To find out more about our ingredients, please contact your nearest DSM Nutritional Products office.

<table>
<thead>
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</tbody>
</table>

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