# Lutein 5% DC

**Human Nutrition** 



The Chemical Company

#### Chemical name

Lutein, β-ε-carotene-3,3'-diol (3R, 3'R, 6'R)

CAS No. 127-40-2 EINECS No. 204-840-0

#### Product number

10609133

## Description

Free-flowing, dark orange powder, consisting of spherical particles with a uniform particle size. Some white to yellow starch particles may be visible

## Composition

The powder particles consist of (natural) lutein finely dispersed in a matrix of gelatin and sucrose coated with native starch. The product contains DL- $\alpha$ -tocopherol (E 307), sodium ascorbate (E 301) and ascorbyl palmitate (E 304) as antioxidants and tricalcium phosphate (E 341) as an anti-caking agent.

#### Solubility

Dispersible in warm water (35-40°C), in which it forms a stable yellow to orange dispersion. Insoluble starch particles may be visible.

#### Specification

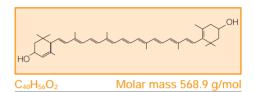
Lutein	
Assay:	min. 5%
Zeaxanthin	
Assay:	min. 0.25%
Loss on drying:	≤5% (4 hours at 105°C)

#### Particle-size distribution

100% smaller than 850  $\mu m$  (20 mesh USP) min. 90% smaller than 425  $\mu m$  (40 mesh USP) max. 15% smaller than 150  $\mu m$  (100 mesh USP)

## Bulk density

Approx. 0.6 g/ml



## Stabilization/Stability

Stored in the original packaging at room temperature (max. 25°C), the product is stable for at least 24 months

## Standard packaging

5 and 25 kg

## Storage

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 place, protected from daylight.

## **Applications**

Dietary supplements

The product has been designed for the direct compression of multivitamin mineral tablets as well as hard shell capsules. It is also suitable for single entities, sugar or film coated tablets.

## Note

Lutein 5% DC must be handled in accordance with the Safety Data Sheet.

The data contained in this publication are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any descriptions, drawings, photographs, data, proportions, weights etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product. It is the responsibility of the recipient of our products to ensure that any proprietary rights and existing laws and legislation are observed.

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