

# Xangold® 30% OLV

## Chemical names of active ingredient

Lutein  
Lutein esters

**CAS-No.** 127-40-2

**EINECS-No.** 204-840-0

**PRD-No.**  
30535091\*

\* The product is kosher.

## Articles

50237948 10 kg plastic drum

## Country of origin

Ecuador

## Description

Dark, reddish suspension containing natural mixed carotenoid esters isolated from marigold flowers (*Tagetes erecta*). The esters comprise primarily lutein esters.

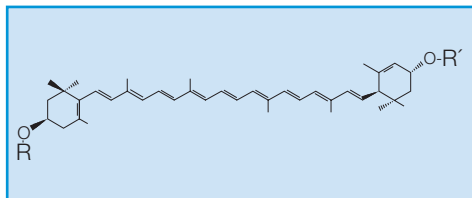
## Typical Profile as Esters

Total Carotenoid Esters	min.	300.0 mg/g
Lutein Esters*	approx.	284.0 mg/g
Zeaxanthin Esters*	approx.	14.5 mg/g

\* Typical values, not determined regularly.

Theoretical Profile as Free Carotenoids (chemical conversion converts the carotenoid esters to free carotenoids)

Total Carotenoids	161.0 mg/g
Lutein	152.0 mg/g
Zeaxanthin	8.2 mg/g



R, R' = mainly C<sub>13</sub>H<sub>27</sub>CO-, C<sub>15</sub>H<sub>31</sub>CO-,  
C<sub>17</sub>H<sub>35</sub>CO-Average Molar mass 1056.5 g/mol

**Main constituent:** Lutein dipalmitate  
C<sub>72</sub>H<sub>116</sub>O<sub>4</sub> Molar mass 1045.7 g/mol

## Composition

Ingredients in descending order of weight:  
Olive oil, lutein, tocopherol-rich extract, ascorbyl palmitate.

## Solubility

Soluble in hexane, benzene and chloroform;  
partially soluble in ethanol; sparingly soluble in  
oils and fats; insoluble in water.

## Specification

Assay (content of natural min. 300 mg/g  
mixed carotenoid esters)

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

## Regulations

Lutein esters are approved for use as a food  
colorant and as a nutritional ingredient in most  
countries.

However, specific regulations on the ingredients  
used in the respective countries and for the  
intended use have to be considered.

## Stability, Storage and Handling

Stored in the unopened original packaging at ambient temperature (max. 25 °C) in a dry place, the product is stable for at least 36 months.

Carotenoids are sensitive to light, heat and oxygen and need to be stored in a light proof and airtight container.

As Xangold® 30% OLV is a suspension, settling of crystals may occur during prolonged storage. Therefore, it is strongly recommended that the container contents are warmed and mixed thoroughly before sampling or use.

## Applications

### Dietary supplements:

Xangold® 30% OLV as a source of lutein esters may be formulated in different kinds of dietary supplements, such as single entity or multi-ingredient products.

### Food products and beverages:

The product can be used in foods and beverages to impart color to the final products.

Lutein esters are a source of lutein. The human body hydrolyzes lutein esters to form free lutein.

## Note

Xangold® 30% OLV must be handled in accordance with the Safety Data Sheet.

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