

# PRODUCT SPECIFICATION

DATE OF ISSUE  
09-07-2025

ORGANIC ACEROLA POWDER 17% VIT.C

PRODUCT  
CODE: 37

**NATUURLIJK**  
**NATUURLIJK**  
special food ingredients

T061123M000000A061123

## 1. PRODUCT IDENTIFICATION

### 1.1 Supplier product information

|                |                                      |               |                                                                                                                                                                                                                                             |
|----------------|--------------------------------------|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product name   | Organic acerola powder 17% vitamin C |               |                                                                                                                                                                                                                                             |
| Product code   | 37                                   |               |                                                                                                                                                                                                                                             |
| Product number | Content                              | EAN           | Packaging                                                                                                                                                                                                                                   |
| 1670           | 12g                                  | 8718309831929 | Plastic jar and screw lock cap with warranty seal.<br><br>Jar =  Cap =  |
| 1671           | 50g                                  | 8718309831936 |                                                                                                                                                                                                                                             |
| 1672           | 125g                                 | 8718309831943 |                                                                                                                                                                                                                                             |
| 1673           | 500g                                 | 8718309831950 |                                                                                                                                                                                                                                             |

### 1.2 Scientific product information

|                     |                                                              |                                                                                                                                                                            |
|---------------------|--------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Combined ingredient |                                                              |                                                                                                                                                                            |
| Main use            | antioxidant                                                  |                                                                                                                                                                            |
| Composition         | In descending order of weight; acerola juice*, maltodextrin* |                                                                                                                                                                            |
| Ingredients         | Concentrated and spray dried acerola juice (70%)             | maltodextrin* (30%)                                                                                                                                                        |
| Chemical name       | fruits of the Malpighia punicifolia                          | maltodextrin from corn                                                                                                                                                     |
|                     |                                                              | The maltodextrin is a technical substance and has no function in the prepared end product. It therefore doesn't need to be listed on the label of the prepared endproduct. |
|                     | * from certified organic agriculture                         |                                                                                                                                                                            |

### 1.3 Legislative product information

|                   |           |                      |          |
|-------------------|-----------|----------------------|----------|
| Country of Origin | Brasilia  | HS code (customs)    | 21069030 |
| Certification     | Organic   | Certification number | 103446   |
|                   | Institute | Skal NL-BIO-01       |          |

## 2. PRODUCT INFORMATION

### 2.1 Physical and Chemical properties

|             |      |                          |        |
|-------------|------|--------------------------|--------|
|             | Unit | Specification            | Method |
| Appearance  |      | fine powder              |        |
| Colour      |      | yellow                   |        |
| Odour/taste |      | characteristically, sour |        |

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|                            |      |               |  |
|----------------------------|------|---------------|--|
| Water content              | %    | max. 8        |  |
| Ascorbic acid<br>Vitamin C | %    | min. 17       |  |
| Particle size              | mesh | 70-80 (180µm) |  |

### 2.2 Microbiological data

|                    |         |           |  |
|--------------------|---------|-----------|--|
| Total plate count  | CFU/g   | < 100.000 |  |
| Moulds             | CFU /g  | < 10.000  |  |
| Yeasts             | CFU /g  | < 10.000  |  |
| Enterobacteriaceae | CFU /g  | < 100     |  |
| E Coli             | CFU /g  | < 10      |  |
| Salmonella         | in 125g | negative  |  |

### 2.4 Nutritional Information

#### 2.4.1 Nutritional Values

|                    |           |      |  |
|--------------------|-----------|------|--|
| Energy             | kJ/100g   | 1080 |  |
| Energy             | kcal/100g | 258  |  |
| Protein            | g/100g    | 3,1  |  |
| Carbohydrate:      | g/100g    | 59,9 |  |
| Of which Sugars    | g/100g    | 11,5 |  |
| Polyols            | g/100g    |      |  |
| Starches           | g/100g    |      |  |
| Others             | g/100g    |      |  |
| Fat:               | g/100g    | 0,5  |  |
| Of which Saturated | g/100g    | 0,2  |  |
| Mono-unsaturated   | g/100g    |      |  |
| Poly-unsaturated   | g/100g    |      |  |
| Transfatty acids   | g/100g    |      |  |
| Cholesterol        | mg/100g   |      |  |
| Water              | g/100g    |      |  |
| Organic acid       | g/100g    |      |  |
| Dietary fiber      | g/100g    | 0,8  |  |

#### 2.4.2 Minerals

|             |        |       |  |
|-------------|--------|-------|--|
| Salt (NaCl) | g/100g | 0,160 |  |
|-------------|--------|-------|--|

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## 2.4.3 Vitamins

|           |         |       |
|-----------|---------|-------|
| Vitamin C | mg/100g | 17000 |
|-----------|---------|-------|

## 3. FOOD INTOLERANCE

### 3.1 Allergens

| Yes = ✓ / No = ✗                                                                                                      | Contains | Cross-Contamination (Risk) |
|-----------------------------------------------------------------------------------------------------------------------|----------|----------------------------|
| Eggs and products thereof                                                                                             | ✗        | ✗                          |
| Cereals containing gluten and products thereof                                                                        |          |                            |
| Lupin and products thereof                                                                                            | ✗        | ✗                          |
| Milk and products thereof (including Lactose)                                                                         | ✗        | ✗                          |
| Sesame seeds and products thereof                                                                                     | ✗        | ✗                          |
| Nuts and products thereof (almonds, hazelnuts, walnuts, cashews, pecan nuts, Brazil nuts, pistachios, macadamia nuts) | ✗        | ✗                          |
| Sulphur dioxide and sulphites (>10mg/kg or >10mg/l)                                                                   | ✗        | ✗                          |
| Celery and products thereof                                                                                           | ✗        | ✗                          |
| Peanuts and products thereof                                                                                          | ✗        | ✗                          |
| Mustard and products thereof                                                                                          | ✗        | ✗                          |
| Fish and products thereof                                                                                             | ✗        | ✗                          |
| Molluscs and products thereof                                                                                         | ✗        | ✗                          |
| Soy and products thereof                                                                                              | ✗        | ✗                          |
| Crustacea and products thereof                                                                                        | ✗        | ✗                          |

### 3.2 Suitability for other diets:

|            |   |                    |   |
|------------|---|--------------------|---|
| Coeliacs   | ✓ | Lactose intolerant | ✓ |
| Vegetarian | ✓ | Vegans             | ✓ |
| Kosher     | ✓ | Halal              | ✓ |

### 3.3 GMO Declaration:

This product does not contain genetically modified organisms and is not produced using raw materials of a genetically modified origin. At no stage during production does the product comes into contact with genetically modified organisms.

### 3.4 Irradiation:

This product is not treated with ionizing radiation .

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## 4. STORAGE CONDITIONS

|                    |                                                                          |
|--------------------|--------------------------------------------------------------------------|
| Storage conditions | In closed original packaging. Must be kept cool (14-20°C), dark and dry. |
| Shelf life         | 24 months after production, under the above mentioned conditions.        |

## 5. FOOD SAFETY

### 5.1 Hygiene:

This product is produced in a facility with an on HACCP based food safety system.

### 5.2 Identifications of dangers:

|                                                                          |                                 |
|--------------------------------------------------------------------------|---------------------------------|
| <b>Classification of the substance</b><br>(Regulation (EC) No 1272/2008) | Not classified. (non-hazardous) |
|--------------------------------------------------------------------------|---------------------------------|

## 6. EXTENDED PRODUCT INFORMATION

### 6.1 Usage

1 kg of acerola powder corresponds to about 11 kg of fresh fruit.

#### Dosage:

3 grams for 1 liter of cold beverages

Cereal bar 1,2%

Food supplement 0,3%

Acerola powder is used as an antioxidant. It prevents discoloration of fruit and vegetable preserves and fruit purees.

Ingredients: Acerola powder\* 70%, maltodextrin\*

\*organic

### Bread improver

Acerola powder as a bread improver increases the gas-holding capacity of wheat dough and thus increases the airiness of the bread. A weak flour requires more acerola powder than a strong flour (gluten quality). The more air that is incorporated during the kneading process, the more effective the acerola powder.

### Example of the influence of acerola powder on bread dough and bread:

| Bread dough                                                               |                                                              |
|---------------------------------------------------------------------------|--------------------------------------------------------------|
| Too little acerola powder                                                 | Too much acerola powder                                      |
| Weak<br>Too stretchy<br>Soft<br>Sticky, difficult to process mechanically | Stiff<br>Short<br>Tough<br>Difficult to process mechanically |

  

| Bread                                         |                                                         |
|-----------------------------------------------|---------------------------------------------------------|
| Too little acerola powder                     | Too much acerola powder                                 |
| Irregular pores<br>Small volume<br>Soft crust | Large pores<br>Small volume, wild rupture<br>Hard crust |

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The active ingredient in acerola powder is vitamin C, or natural ascorbic acid. Ascorbic acid is an oxidative flour improver. Ascorbic acid itself is a reducing agent that is converted into dehydroascorbic acid during kneading using enzymes and oxygen. Dehydro-ascorbic acid is actually the oxidatively acting flour improver.

During the baking process, dehydro-ascorbic acid is broken down and is no longer present in the baked product.

### Dosage in bread products:

Acerola powder 0.018% on the flour weight to improve gluten quality.

The optimal addition mainly depends on the extraction. For flour, the addition is around 12-24 grams per 100 kg (0.012-0.024%). With half-meal and wholemeal flour, this varies from 18-47 grams per 100 kg (0.018-0.047%).

### 6.2 Dictionary

|    |                    |                    |
|----|--------------------|--------------------|
| NL | The Netherlands    | acerola poeder     |
| GB | Great Britain (UK) | acerola powder     |
| DE | Germany            | Acerola Pulver     |
| FR | France             | poudre d'acérولا   |
| ES | Spain              | polvo de acerola   |
| PT | Portugal           | pó de acerola      |
| IT | Italy              | acerola in polvere |
| DK | Denmark            | acerola pulver     |
| NO | Norway             | acerola pulver     |
| SE | Sweden             | acerolapulver      |
| FI | Finland            | acerola-jauhe      |
| IS | Iceland            | acerola duft       |
| CZ | Czech Republic     | prášek aceroly     |
| SK | Slovak Republic    | prášok z aceroly   |
| HU | Hungary            | acerola por        |
| HR | Croatia (Hrvatska) | acerola u prahu    |
| GR | Greece             | σκόνη acerola      |
| SI | Slovenia           | acerola v prahu    |
| PL | Poland             | proszek z aceroli  |
| RO | Romania            | pulbere de acerola |
| BG | Bulgaria           | ацерола на прах    |
| RU | Russian Federation | порошок ацеролы    |
| TR | Turkey             | aserola tozu       |

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## 7. DISCLAIMER

Although we take great care in setting up this product specification, we cannot accept any liability for the completeness and fully accurateness of the information provided. The content of this Product Specification is completed to the best of our knowledge.

This document does not dismiss the user of his legal obligations with respect to food safety.

This product specification replaces any previously issued specifications.