



**GONMISOL**  
FINE INGREDIENTS

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Sant Adrià de Besòs 08930  
Barcelona - Spain (EU)

**Technical package**

**Dossier Técnico**  
**15/05/2023**

## L-CARNOSINE

### PRODUCT SPECIFICATION

Product Name	INCI Name	EINECS Number	CAS Code
L-CARNOSINE	carnosine	206-169-9	305-84-0
Appearance		White powder	
Color		White to almost white	
Smell		Odourless	
Identification		Must comply	
Loss on drying		1.0%max	
Heavy metals		2 ppm max	
Arsenic		1 ppm max	
Lead		0.5 ppm max	
Cadmium		1 ppm max	
Mercury		0.1 ppm max	
Residue on Ignition		0.10% max	
Specific rotation		+20° to +22°	
Melting Point		250°C~265°C	
pH (in 2% water)		7.5~8.5	
L- histidine		1.0% max	
β-alanine		0.1% max	
Total aerobes counts		1000 CFU/g max	
Mold & Yeast		100 CFU/g max	
E.Coli		Negative	
Salmonella		Negative	

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### PRODUCT SPECIFICATION

Residue ethanol	2000 ppm max.
Residue methanol	10 ppm max
Hydrazine content	Not detectable
Particle Size	100% through 100 mesh
Loose Bulk Density	≥0.20 g/ml
Assay	99.0% to 101.0%

Molecular Formula: C<sub>9</sub>H<sub>14</sub>N<sub>4</sub>O<sub>3</sub>

Molecular Weight: 226.23



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## L-CARNOSINE

### GENERAL PRODUCT INFORMATION

Mesh of the product	100% Through 100 mesh
Tapped density	0.5-0.7g/ml
Bulk density	0.2-0.3 g/ml
Water solubility	Soluble in cold water
Type of Manufacturing process (Synthesis, Fermentation, Extraction, etc.)	Chemical synthetic
Specific Origin of the product (Animal, Vegetal, etc.)	Chemical synthetic
Is the product FREE of GLUTEN?	Yes
Is the product suitable for vegans?	Yes
Is the product suitable for vegetarians?	Yes
Is the product free of fructose?	Yes
Is this product suitable for food?	Yes
Can the product be used in baby food (according to Regulation (EU) N° 609/2013, Commission Delegated Regulation (EU) 2016/127, Commission Delegated Regulation (EU) 2021/572 and amendments)?	Yes
Pharmacopoeias that the product meets	In house
Melting point	250-265°C
Country of origin of the raw material/s of the product	Raw material from China
Storage conditions (in the warehouse)	Seal and store away from light



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## L-CARNOSINE

### GENERAL PRODUCT INFORMATION

Additional information about the product:

#### PHthalATES FREE STATEMENT

The product is manufactured by synthetic chemical processes and it is free from Phthalates.

In addition, during the production phases of L-Carnosine , there is no risk of cross-contamination by Phthalates.



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## L-CARNOSINE

### TECHNICAL PRODUCT INFORMATION

Name of the product	L-Carnosine
Molecular Formula	C <sub>9</sub> H <sub>14</sub> N <sub>4</sub> O <sub>3</sub>
Molecular mass	226.23
Country of the factory (Manufacturing site)	China
Raw materials used for the manufacture of this product and their function	to delay aging, could catch oxygen radical, increase serum insulin, reduce hyperglycemia, with the function of cosmetology and skin care, mainly utilized for dietary supplement
Frequency of analysis of each contaminant?	Every batch
Frequency of analysis of microbiology?	Heavy metals: Spot check, Microbiology: Every batch
Frequency of analysis of each heavy metal?	Heavy metals: Spot check, Microbiology: Every batch



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## L-CARNOSINE

### FOREIGN MATERIAL

Explanation of actions taken during the manufacturing process of this product to reduce the risk of appearance of foreign material:

Metal detector	No
Sieve	Yes
Filter	Yes
X-Ray	No



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## L-CARNOSINE

### INGREDIENTS

In accordance with the EU Regulation 1169/2011, amending EU Regulation 1924/2006 and EU Regulation 1925/2006, the following ones are the ingredients and their content (in %) in this product.

L-Carnosine	99% Min
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## L-CARNOSINE

### BSE/TSE

This product does not contain and is not derived from Specified Risk Material as defined in European Commission Directive (and its amendments) and is therefore conform with the EU legislation relating to the risk of Transmission of Spongiform Encephalopathy (TSE).

### GMO

The following EU regulations have been published in the Official Journal of the European Union in this subject:

- Regulation (EC) No.1829/2003 of the European Parliament and the Council of 22 September 2003 on genetically modified food and feed.

- Regulation (EC) No.1830/2003 of the European Parliament and the Council of 22 September 2003 concerning tractability and labeling on genetically modified organisms and tractability of food and feed products produced from genetically modified organisms and amending Directive 2001/18/EC.

This product has not been genetically modified so there is no obligation of GMO labeling as defined by the above mentioned regulations.

### NON IRRADIATION/NON IONIZED

According to directives 1992/2/EC and 1999/3/EC, we confirm that this product is not made from irradiated/ionized raw materials and that this product was not irradiated/ionized.





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## L-CARNOSINE

### PESTICIDES

To our actual knowledge of the production process, of the raw materials and of the equipment used, the potential pesticide residues in this product comply with the European legislation on pesticide residues (esp. Regulation (EC) No. 396/2005 and amendments). However, we do not test for pesticide residues on a routine basis.

### RESIDUAL SOLVENTS

The product meets with:

- DIRECTIVE 2009/32/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 23 April 2009 on the approximation of the laws of the Member States on extraction solvents used in the production of foodstuffs and food ingredients
- DIRECTIVE 2010/59/EU of 26 August 2010 amending Directive 2009/32/EC of the European Parliament and of the Council on the approximation of the laws of the Member States on extraction solvents used in the production of foodstuffs and food ingredients.

### CONTAMINANTS

The product is in accordance and meets with the Commission Regulation (EU) No. 2023/915 setting maximum levels for certain contaminants in foodstuffs.

### PCBS AND MELAMINE

This product is in accordance and meets with the Commission Regulation (EU) No. 2023/915 as regards the maximum levels of the contaminants Ochratoxin A, non-dioxin-like PCBS and melamine in foodstuffs.

### ANTI-DOPING

As per the list of 2012 of the World Anti-Doping Agency, the ingredient is not a doping substance or a combination of doping substances. The ingredient does not contain any doping substance. The ingredient does not result from a doping substance.

As per the list of 2016 of the World Anti-Doping Agency, the ingredient is not a doping substance or a combination of doping substances. The ingredient does not contain any doping substance. The ingredient does not result from a doping substance.

### NANOMATERIALS

According to the definition of 'Nanomaterials' of the UE Regulation No 1169/2011 of the European Parliament and of the Council of 25th of October 2011 (amending Commission Regulation (EC) 1924/2006 and Commission Regulation (EC) 1925/2006) on the provision of food information to consumers, we hereby attest that no nanomaterials are used in the manufacture, in the formulation nor in the packaging materials of this product.



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## L-CARNOSINE

### PACKING

We confirm that the packing used for this product is in compliance with:

- Regulation (EC) No. 1935/2004 of the European Parliament and of the Council of 27th of October 2004 on materials and articles intended to come into contact with food and repealing Directives 80/590/EEC and 89/109/EEC
- Commission Regulation (EU) No. 10/2011 of 14 January 2011 on plastic materials and articles intended to come into contact with food.



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## L-CARNOSINE

### ALLERGENS

In accordance with Regulation (EU) No. 1169/2011, amending Commission Regulation (EC) No. 1924/2006 and Commission Regulation (EC) No. 1925/2006, we confirm the following information:

Does this product contain or is derived from or could be cross-contaminated by any of the following allergens?

Cereals containing gluten (i.e. wheat, rye, barley, oats, spelt, kamut or their hybridised strains) and products thereof	No
Crustaceans and products thereof	No
Eggs and products thereof	No
Fish and products thereof	No
Peanuts and products thereof	No
Soybeans and products thereof (with exceptions established in Annex II)	No
Milk and products thereof (including lactose) (with exceptions established in Annex II)	No
Nuts (i.e. almond, hazelnut, walnut, cashew, pecan nut, Brazil nut, pistachio nut, macadamia nut and Queensland nut) and products thereof (with exceptions established in Annex II)	No
Celery and products thereof	No
Mustard and products thereof	No
Sesame seeds and products thereof	No
Sulphur dioxide and sulphite at concentrations of more than 10 mg/kg or 10 mg/l expressed as SO <sub>2</sub>	No
Lupine and products thereof	No
Molluscs and products thereof	No



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## L-CARNOSINE

### ALBA LIST (ALLERGENS)

Note: 'Yes' means that there is contamination from

- 1) recipe contents,
- 2) other products handled on the same production line or
- 3) other products handled at same side.

	Cross contamination (mg/kg)?	Where?
Cow milk protein	No	-
Lactose	No	-
Chicken egg	No	-
Soya protein	No	-
Soya oil	No	-
Gluten	No	-
Wheat	No	-
Rye	No	-
Cattle	No	-
Pork	No	-
Chicken	No	-
Fish	No	-
Shellfish and Crustaceae	No	-
Corn	No	-
Cocoa	No	-
Leguminous plants	No	-
Nuts	No	-
Nut oil	No	-
Peanut	No	-
Peanut oil	No	-
Sesame	No	-
Sesame oil	No	-
Glutamate	No	-
Sulphide (E220 to E228)	No	-
Coriander	No	-
Celery	No	-
Carrot	No	-
Lupines	No	-

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## L-CARNOSINE

### NUTRITIONAL INFORMATION

Approximative Nutritional Information of this product is as follows:

Nutrition Information per 100 grams

Calories 0

Calories from Fat 0

Total Fat 0

-monounsaturated 0

-polyunsaturated 0

-saturated 0

-trans fat 0

Cholesterol 0

Total Carbohydrate 0

-dietary fiber 0

-sugar 0

-sugar alcohols 0

-other carbohydrates 0

Protein 0

Vitamin A (as ) 0

Vitamin D (as ) 0

Vitamin E (as ) 0

Vitamin K 0

Thiamin (vitamin B-1)(as ) 0

Riboflavin (as ) 0

Niacin (as ) 0

Vitamin B-6 (as ) 0

Vitamin B-6 (as ) 0

Folate, Folic Acid or Folacin 0

Vitamin B-12 (as ) 0

Biotin (as ) 0

Pantothenic Acid (as ) 0

Calcium (as ) 0

Phosphorus (as ) 0

Iodine (as ) 0

Magnesium (as ) 0

Zinc (as ) 0

Selenium (as ) 0

Copper (as ) 0

Manganese (as ) 0

Molybdenum (as ) 0

Chromium (as ) 0

Molybdenum (as ) 0

Chloride (as ) 0

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## L-CARNOSINE

### NUTRITIONAL INFORMATION

Sodium (as ) 0  
Potassium (as ) 0



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## **L-CARNOSINE**

### **RESIDUE LIMITS (GELATIN, COLLAGEN)**

We herewith certify that this product in compliance with: Commission Regulation (EU) No. 2016/355 of 11st of March 2016, amending Annex III to Commission Regulation (EC) No. 853/2004 of the European Parliament and of the Council as regards the specific requirements for gelatine, collagen and highly refined products of animal origin intended for human consumption.

### **HYGIENE OF FOODSTUFFS**

We herewith certify that this product complies with Commission Regulation (EC) No. 852/2004 of the European Parliament on the hygiene of foodstuffs and all its amendments.

### **FULL TRACEABILITY**

This product complies with the full traceability criteria as mentioned in Commission Regulation (EC) No. 178/2002 of the European Parliament and of the Council of 28th of January 2002, laying down the general principles and requirements of food law, establishing the European food safety authority and laying down procedures in matters of food safety.



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## L-CARNOSINE

### FACTORY ACCREDITATIONS/CERTIFICATIONS

ISO 9001	Yes
ISO 22000	Yes
HACCP	Yes
GMP	Yes
FAMI QS	No





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## L-CARNOSINE

### NON ANIMAL TESTING

We certify that the product has not been tested on animals.



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**Material Safety Data  
Sheet**

**Documento MSDS  
09/04/2018**

## L-CARNOSINE

### MSDS (Material Safety Data Sheet)

#### 1. CHEMICAL PRODUCT IDENTIFICATION

Product Name: L-CARNOSINE  
CAS Number: 305-84-0

#### Supplier Information:

Productos Químicos Gonmisol S.A.  
Camino de la Verneda 47-49  
08930 - San Adrian del Besos  
Barcelona - Spain  
Phone +34 933136118  
Fax +34 933147427  
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#### 2. INFORMATION ON COMPOSITION

- Name L-Carnosine
- Chemical formula C<sub>9</sub>H<sub>14</sub>N<sub>4</sub>O<sub>3</sub>
- Molecular weight 226.23 g/mole
- CAS nr. 305-84-0
- EINECS nr. 206-169-9

#### 3 HAZARD

##### Hazards Identification

##### Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation(EC) No 1272/2008

Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC

##### Label elements

The product does not need to be labeled in accordance with EC directives or respective national laws.

Other hazards –none

#### 4. FIRST AID MEASURES

- General Instructions The product is neither dangerous nor hazardous.

Availability of the usual first aid means is requested.

- Eye contact In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes. Assure adequate flushing by

separating the eyelids with fingers; call a physician.

- Skin contact In case of contact, immediately wash skin with soap and copious amounts of water.

- Ingestion If swallowed, wash out mouth with water provided person is conscious; call a physician.

- Inhalation If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.



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**Material Safety Data  
Sheet**

**Documento MSDS  
09/04/2018**

## L-CARNOSINE

### MSDS (Material Safety Data Sheet)

- Notes to physicians Treat symptomatically.

#### 5. FIRE FIGHTING MEASURES

- Suitable extinguishing media Water spray, dry chemical powder, carbon dioxide.
- Unsuitable extinguishing media n.av
- Unusual fire and explosions

hazards

Emits toxic fumes under fire conditions.

- Special protective equipment Wear a self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

#### 6. ACCIDENTAL SPILLING MEASURES

- Antidust mask, chemical safety goggles, rubber boots and heavy rubber gloves.
- Sweep up, place in a bag and hold for waste disposal; avoid raising dust.
- Ventilate area and wash spill site after material pickup is complete.

#### 7. STORAGE AND HANDLING

- Handling Usual protective equipment against chemical powder.
- Storage Store in dry, dark and cool place.

#### 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

- General measures Normal cautions for chemical materials.
- Personal protection and hygiene General guidelines of good industrial hygiene.
- Respiratory protection Antidust mask.
- Hands protection Gloves.
- Eyes protection Goggles.
- Skin protection Protective clothing.
- Technical facility measures Efficient exhaustion system.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

For this information, please, refer directly to the Certificate of Analysis OR Specifications

#### 10. STABILITY AND REACTIVITY

- General features Stable in dry and cool place.
- Conditions to avoid Warming (> 30°C), contact with acidic mediums.



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## L-CARNOSINE

### MSDS (Material Safety Data Sheet)

- Materials to avoid Oxidizers, mineral acids.
- Hazardous decomposition products It could form nitrogen and carbon oxides by combustion.

#### 11. TOXICOLOGICAL INFORMATION

- Acute toxicity The product is not toxic.
- LD50 (oral/rat) 14930 mg/Kg
- LD50 (ipr/mouse) 9087 mg/Kg
- Human dosage n.av.
- Additional information n.av.

#### 12. ECOLOGICAL INFORMATION

- Mobility n.av.
- Biodegradability The product is partially biodegradable.
- Degradability The product is degradable to  $\alpha$ -alanine and histidine in acidic mediums.
- Biological effects n.av.
- Ecotoxicity n.av.
- Water toxicity n.av.
- Bioaccumulation n.av.

#### 13. DISPOSAL CONSIDERATIONS

- Product If recycling is not possible, dispose in accordance to local solid waste disposal regulations.
- Containers General rules for chemical materials disposal.

#### 14 . TRANSPORT REGULATIONS

- Land n.av.
- ADR nr. n.av.
- RID nr. n.av.
- UN nr. n.av.
- Sea n.av.
- UN nr. n.av.
- Class nr. n.av
- Air n.av.
- IATA/ICAO n.av.
- UN nr. n.av.
- Class n.av.



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**Material Safety Data  
Sheet**

**Documento MSDS  
09/04/2018**

## L-CARNOSINE

### MSDS (Material Safety Data Sheet)

- Additional information Not regulated as hazardous material.

#### 15. REGULATORY INFORMATION

- Symbols n.av.
- R phrases R n.a. Not available
- S phrases S 22 Do not breathe dust  
S 24/25 Avoid contact with skin and eyes
- Additional information n.av.

#### 16. ADDITIONAL INFORMATION

Information given above is to the best of our knowledge and is only related to the product as delivered in order to give a complete review of safety aspects accurate as of the date indicated. All data given are never meant to guarantee product properties. The Company shall not be held liable for any damage resulting from handling or from contact with the above product.

n.a.= not applicable

n.av.= not available