

# L-Carnitine

## Company Information

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## Product Identification

### 【Product Name】

L(-)-Carnitine

### 【Synonyms】

(3-Carboxy-2-hydroxypropyl)trimethyl-ammonium hydroxide,  
inner salt

(3R)-3-Hydroxy-4-trimethylazaniumylbutanoate

3-Carboxy-2-hydroxy-N,N,N-trimethyl-1-propanaminium-hydroxide, inner salt

Ammonium, (3-carboxy-2-hydroxypropyl)trimethyl-, hydroxide,  
inner salt, L

**【CAS】**

541-15-1

**【Formula】**

C7H15NO3

**【Molecular Weight】**

161.19999999999999

**【EINECS】**

208-768-0

**【RTECS】**

BP2980000

**【RTECS Class】**

Drug; Natural Product

**【Beilstein/Gmelin】**

4292315

**【Beilstein Reference】**

**4-04-00-03185**

## **Physical and Chemical Properties**

### **【Appearance】**

**White solid.**

### **【Solubility in water】**

**2.50 mg/L (20 C)**

### **【Melting Point】**

**210 - 212**

### **【Density】**

**0.64 g/cm<sup>3</sup>**

### **【pKa/pKb】**

**3.80(at 25°C) (pKa)**

## **First Aid Measures**

### **【Ingestion】**

**Never give anything by mouth to an unconscious person. Get**

medical aid. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

### **【Inhalation】**

Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

### **【Skin】**

Get medical aid. Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

### **【Eyes】**

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

## **Handling and Storage**

### **【Storage】**

Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Store

protected from moisture.

### **【Handling】**

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation.

Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed.

Avoid ingestion and inhalation.

### **Hazards Identification**

#### **【Ingestion】**

May cause irritation of the digestive tract. The toxicological properties of this substance have not been fully investigated.

#### **【Inhalation】**

May cause respiratory tract irritation. The toxicological properties of this substance have not been fully investigated.

#### **【Skin】**

May cause skin irritation.

#### **【Eyes】**

May cause eye irritation.

## Exposure Controls/Personal Protection

### 【Personal Protection】

**Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. **Skin:** Wear appropriate protective gloves to prevent skin exposure. **Clothing:** Wear appropriate protective clothing to prevent skin exposure.

### 【Respirators】

Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

## Fire Fighting Measures

### 【Autoignition】

> 365

### 【Fire Fighting】

**Wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Runoff from fire control or dilution water may cause pollution. Extinguishing media: Use agent most appropriate to extinguish fire. In case of fire use water spray, dry chemical, carbon dioxide, or appropriate foam.**

### **Accidental Release Measures**

#### **【Small spills/leaks】**

**Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, using the appropriate protective equipment. Avoid generating dusty conditions. Provide ventilation.**

### **Stability and Reactivity**

#### **【Incompatibilities】**

**Oxidizing agents, moisture.**

#### **【Stability】**

**Stable under normal temperatures and pressures.**

**【Decomposition】**

**Nitrogen oxides, carbon monoxide, irritating and toxic fumes and gases, carbon dioxide, nitrogen.**

**Transport Information**

**【HS Code】**

**2923 90 00**