

# L-Isoleucine

## Company Information

Sunchem Co.,Ltd.

Add: A-11F, 186 Yangtzi Middle Road, Yangzhou, China.

Tel:+86 514 87851548

Fax:+86 514 87872867

Email: info@sunchemgroup.com

## Product Identification

### 【Product Name】

(2S,3S)-2-Amino-3-methylpentanoic acid

### 【Synonyms】

(2S,3S)-2-Amino-3-methylpentanoic acid

(2S,3S)- $\alpha$ -Amino- $\beta$ -methylvaleric acid

2-Amino-3-methylvaleric acid

### 【CAS】

73-32-5

### 【Formula】

C6H13NO2

**【Molecular Weight】**

131.18

**【EINECS】**

200-798-2

**【RTECS】**

NR4705000

**【RTECS Class】**

Mutagen

**【Merck】**

13,5198

**【Beilstein/Gmelin】**

1721792

**【Beilstein Reference】**

4-04-00-02775

## Physical and Chemical Properties

### 【Appearance】

odorless white solid

### 【Solubility in water】

Very soluble

### 【Melting Point】

279 - 280

### 【pKa/pKb】

2.57 (pKa)

### 【Partition Coefficient】

-1.68

### 【Usage】

One of the 20 amino acids encoded by our genetic code. An essential amino acid.

## First Aid Measures

### 【Ingestion】

If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid.

#### **【Inhalation】**

Remove from exposure to fresh air immediately. Get medical aid if cough or other symptoms appear.

#### **【Skin】**

Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists.

#### **【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.

#### **【Handling】**

Wash thoroughly after handling. 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. Low hazard for usual industrial handling.

### **【Inhalation】**

Low hazard for usual industrial handling.

### **【Skin】**

Low hazard for usual industrial handling.

### **【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**

#### **【Flash Point】**

284

#### **【Fire Fighting】**

Wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Extinguishing media: Substance is noncombustible; use agent most appropriate to extinguish surrounding fire.

### **Accidental Release Measures**

#### **【Small spills/leaks】**

Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions.

## **Stability and Reactivity**

### **【Disposal Code】**

31

### **【Stability】**

Stable under normal temperatures and pressures.

### **【Incompatibilities】**

Strong oxidizing agents.

### **【Decomposition】**

Nitrogen oxides, carbon monoxide, carbon dioxide.

## **Transport Information**

### **【HS Code】**

2922 49 95