L-Leucine

Company Information

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Product Identification

【Product Name】

L-Leu

【Synonyms】

(2S)-2-Amino-4-methylpentanoic acid

(S)-2-Amino-4-methylvaleric acid

2-Amino-4-methylpentanoic acid

L-a-Aminoisocaproic acid

L-Norvaline, 4-methyl-

Pentanoic acid, 2-amino-4-methyl-, (S)-

【CAS】

61-90-5

【Formula】

C6H13NO2

【Molecular Weight】

131.18

【EINECS】

200-522-0

【RTECS】

OH2850000

【RTECS Class】

Mutagen; Reproductive Effector

【Merck】

13,5470

【Beilstein/Gmelin】

1721722

【Beilstein Reference】

4-04-00-02738

Physical and Chemical Properties

【Appearance】

White solid. Practically odorless

【Solubility in water】

Very soluble

【Melting Point】

300

【Boiling Point】

sublimes

【Density】

1.165 g/cm3

【pKa/pKb】

2.55 (pKa)

【Partition Coefficient】

-1.68

【Usage】

Nutrient.

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】

Get medical aid if irritation develops or persists. Flush skin with plenty of soap and water.

【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. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid breathing dust, vapor, mist, or gas. Avoid contact with eyes, skin, and clothing. 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. No information regarding eye irritation and other potential effects was found.

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 gloves 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

【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