L-Phenylalanine

Company Information

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Product Identification

【Product Name】

L-Phenylalanine

【Synonyms】

(2S)-2-Amino-3-phenylpropanoic acid

L-2-Amino-3-phenylpropionic acid

【CAS】

63-91-2

【Formula】

C9H11NO2

【Molecular Weight】

165.19

【EINECS】

200-568-1

【RTECS】

AY7535000

【RTECS Class】

Mutagen; Reproductive Effector

【Merck】

12,7425

【Beilstein/Gmelin】

1910408

【Beilstein Reference】

4-14-00-01552

Physical and Chemical Properties Back to Contents

【Appearance】

Odorless white crystalline powder. Slightly bitter taste.

【Solubility in water】

2.5 g/L

【Melting Point】

173

【Boiling Point】

313

【Vapor Pressure】

0.0004 (25 C)

【Density】

0.754 g/cm3 (20 C)

【pKa/pKb】

2.21 (pKa)

【Partition Coefficient】

-1.61

【Usage】

Component of the artifical sweetener aspartame nutrient.

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.

【Handling】

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimize dust generation and accumulation. May form flammable dust-air mixtures. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

Hazards Identification

【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.

【Ingestion】

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

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】

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

【Exposure Effects】

Prolonged or repeated exposure may cause adverse reproductive effects. May cause fetal effects. Laboratory experiments have resulted in mutagenic effects.

Fire Fighting Measures

【Fire Fighting】

Wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Dusts at sufficient concentrations can form explosive mixtures with air. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Extinguishing media: Use agent most appropriate to extinguish fire. In case of fire use water spray, dry chemical, carbon dioxide, or appropriate foam.

【Fire Potential】

This material is probably combustible.

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

【Stability】

Stable under normal temperatures and pressures.

【Incompatibilities】

Strong oxidizing agents.

【Decomposition】

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

Transport Information

【HS Code】

2922 49 95