

L-Valine

Company Information

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Product Identification

【Product Name】

2-Aminoisovaleric acid

【Synonyms】

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

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

L-2-Amino-3-methylbutyric acid

L-2-Aminoisovaleric acid

【CAS】

72-18-4

【Formula】

C5H11NO2

【Molecular Weight】

117.15

【EINECS】

200-773-6

【RTECS】

YV9361000

【RTECS Class】

Mutagen

【Merck】

12,10046

【Beilstein/Gmelin】

1721136

【Beilstein Reference】

4-04-00-02659

Physical and Chemical Properties

【Appearance】

White powder.

【Solubility in water】

88.5 g/L

【Melting Point】

86

【Boiling Point】

217

【Vapor Pressure】

0.063 (25 C)

【Density】

1.284 g/cm³

【pKa/pKb】

2.37 (pKa)

【Partition Coefficient】

-.01

【Heat Of Combustion】

-2925 kJ/mol

【Usage】

One of 20 proteogenic amino acids.

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 if irritation or symptoms occur.

【Inhalation】

Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

【Skin】

Get medical aid if irritation develops or persists. Wash clothing before reuse. 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. If irritation develops, 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】

The toxicological properties of this substance have not been fully investigated.

【Skin】

Low hazard for usual industrial handling.

【Eyes】

No information regarding eye irritation and other potential effects was found. Contact may cause transient eye irritation.

【Ingestion】

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】

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.

【Exposure Effects】

The toxicological properties of this substance have not been fully investigated.

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. Substance is noncombustible. Extinguishing media: Use water spray, dry chemical, or carbon dioxide.

Accidental Release Measures

【Small spills/leaks】

Sweep up, then place into a suitable container for disposal. Avoid generating dusty conditions. Provide ventilation. Clean up residual material by washing area with a 2-5% solution of soda ash.

Stability and Reactivity

【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