



Specialized in chemicals

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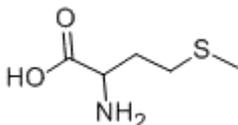
Technical Data Sheet

DL-Methionine

Product Information

Chemical Name	DL-Methionine
CAS #	59-51-8
Formula	C ₅ H ₁₁ NO ₂ S
Molecular Weight	149.21
Synonyms	Methionin; Methionine, DL-; Hmet; Meonine; DL-Methioninum;

Structural formula:



Physical Properties

Appearance:white crystalline powder with a faint odor

Molecular Weight:149.21

Density:1.34

Boiling Point:306.9 °C at 760 mmHg

Melting Point:270-273 °C

Flash Point:139.4 °C

Storage Temperature:0-6 °C

Solubility:2.9 g/100 mL (20 °C) in water

Stability:Stable. Incompatible with strong oxidising agents.

DL-Methionine is stable to air and heat, and unstable to strong acid, soluble in dilute acid and diluted alkaline, insoluble in ethanol, and hardly soluble in ether. DL-Methionine can also cause de—methylation.

Specification

Item	Specifications	
	EP4/BP2001	FCCIV
Appearance	White crystalline platelets or powder	
Assay (C ₅ H ₁₁ NO ₂ S),%(on dry matter)	99.0~101.0	98.5~101.5
Clarity of solution,	Clear	Clear
Transmittance, % (2.5%, 430ml)	≥98.0	- - -
pH Value(5% in water)	5.4~6.1	5.6~6.1
Heavy Metals (as Pb), %	≤0.001	≤0.002
Arsenic (as As), %	≤0.0001	≤0.0002
Sulfate (as SO ₄), %	≤0.02	≤0.02
Chloride (as Cl),%	≤0.02	- - -
Loss on drying, %	≤0.5	≤0.5
Residue on ignition, %	≤0.1	≤0.1
Ammonium as (as NH ₄), %	≤0.01	- - -
Other amino acid	Not detd.	Not detd.

Applications

DL-Methionine is biological protein synthesis skeleton amino acids. DL-Methionine is the necessary growth factors in livestock animal. It can also regulate animal's metabolism. It is already widely used in feed, medicine, food and cosmetics, etc. In the feed industry, the maximum dosage is DL-Methionine. It is used to strengthen feed nutritional. If you add 1kg DL-Methionine in feed, and its nutritional value correspond to 50kg fish powder. DL-Methionine addition was 0.5%—0.2% in the feed. In the medicine area, DL-Methionine is the major element in aminophenol transfusion and compound amino acids. And also can used in synthetic medicinal vitamin. DL-Methionine has anti-fatty liver effects can be used to produce liver drug. In the food area, DL-Methionine is used for food's amino acids and health food processing. And also used as nutrition supplement.

Packaging

25 kg/fiber drum, PE bags. Product can be packaged in accordance with the requirements of customers.

Storage & Handling

Keep in a cool, dry, dark location in a tightly sealed container or cylinder. Keep away from incompatible materials, ignition sources and untrained individuals. Secure and label area. Protect containers/cylinders from physical damage.

Always refer to the Material Safety Data Sheet (MSDS) for detailed information on handling and disposal.

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchant ability or any other warranty, express or implied, with respect to such information, and we

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