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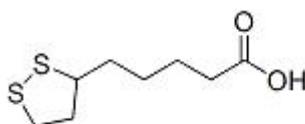
Technical Data Sheet

Lipoic acid

Product Information

Chemical Name	Lipoic acid
CAS #	1077-28-7
Formula	C ₈ H ₁₄ O ₂ S ₂
Molecular Weight	206.32
Synonyms	alpha-lipoic acid,Thioctic acid,Lipoic acid

Structural formula:



Physical Properties

- 1.Thioctic acid, also known as alpha-lipoic acid, is a natural anti-oxidant which has been used for years in Europe because of it's ability to help maintain or restore liver health.
- 2.Thioctic acid strong anti-oxidant capabilities have been used for radiation sickness and diabetes-related neuropathy.
- 3.Thioctic acid has also been investigated as a possible inhibitor of HIV. The PWA Health Group sells pharmaceutical grade thioctic acid without requiring a prescription.

Specification

Items	Specifications	Results
Appearance	Yellow crystalline powder	Complies
Solubility in Water	Very slightly soluble	Complies
Dimrthyl-formamide methanol	Very soluble Freely soluble	
Assay	97%-102.0%	100.2%
impurity B	≤1.0%	complies

Sulphated ash	≤1.0%	0.07%
Lose on drying	≤0.2%	0.06%
Results	The product conforms to the above specifications	

Applications

Thioctic Acid (CAS NO.1077-28-7) is a fatty acid found naturally inside every cell in the body. It's needed by the body to produce the energy for our body's normal functions. Alpha lipoic acid converts glucose (blood sugar) into energy. It is also an antioxidant, a substance that neutralizes potentially harmful chemicals called free radicals. What makes alpha lipoic acid unique is that it functions in water and fat, unlike the more common antioxidants vitamins C and E, and it appears to be able to recycle antioxidants such as vitamin C and glutathione after they have been used up. Glutathione is an important antioxidant that helps the body eliminate potentially harmful substances. It increases the formation of glutathione. And it is made by the body and can be found in very small amounts in foods such as spinach, broccoli, peas, Brewer's yeast, brussel sprouts, rice bran, and organ meats. Alpha lipoic acid supplements are available in capsule form at health food stores, some drugstores, and online. For maximum absorption, the supplements should be taken on an empty stomach.

Self life: Stable to heat up to at 150°C. Not hydrolyzes by water and stable at least 2 years under normal storage conditions

Packaging

Packed in paper-drums and two plastic-bags inside., 25kg/fiber drum, or 1kg/bag

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.

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