

## TECHNICAL DATA SHEET

# Ademetionine disulfate tosylate (SAME)

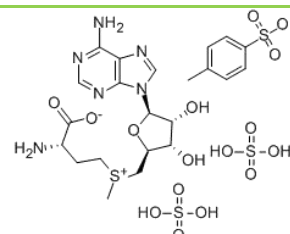
## USP37

### Chemical Properties

CAS: 97540-22-2

Chemical Formula:  $C_{15}H_{22}N_6O_5S \cdot 2(H_2SO_4) \cdot C_7H_8SO_3$

Molecular Weight: 766.79



### Description

As early as 1999, the United States FDA has approved SAME as antidepressant, liver protection, liver treatment, arthritis treatment and other major food supplements. SAME has become popular in Europe and America as high grade special dietary supplements products.

### Solubility

It is soluble in water.

### Specification

Item	Specification	Test Method
Appearance	White to off-white Powder	Visual
Identification		
Infrared	Conforms to the Reference Spectrum	USP37
HPLC	The retention time of the major peak corresponds to the reference sample	
S,S-isomer	Min 75%	USP37
SAM-e ION	49.5-54.7%	USP37
P-Toluenesulfonic Acid	21.0-24.0%	USP37
Content of Sulfate (SO <sub>4</sub> )	23.5-26.5%	USP37
S-Adenosyl-L-methionine Disulfate Tosylate	95.0-103.0%	USP37
Water	Max 3.0%	USP37
pH (5% aqueous solution)	1.0 -2.0	USP37
Sulphated Ash	Max 0.5%	USP37

#### Related substances

Adenine	Max 1.0%	
S-Adenosyl-L-Homocysteine	Max 1.0%	USP37
Methylthioadenosine	Max 1.5%	
Adenosine	Max 1.0%	
Total impurities	Max 3.5%	
Heavy metal	Max 10ppm	USP37
Pb	Max 3ppm	USP37
As	Max 2ppm	USP37
Cd	Max 1ppm	USP37
Hg	Max 0.1ppm	USP37
Total plate Count	Max 1000cfu/g	USP37
Total yeast & mold	Max 100cfu/g	USP37
<i>E. Coli</i>	Negative/10g	USP37
<i>S. aureus</i>	Negative/10g	USP37
<i>Salmonella</i>	Negative/10g	USP37

#### Ingredients

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Pure Ademetionine disulfate tosylate (SAME).

#### Labeling

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In the United States and the European Union: Ademetionine disulfate tosylate (SAME)

#### Applications

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It can be used to adjust mood, protect the liver and improve the joints.

#### Safety

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This product is safe for the intended use. Avoid ingestion, inhalation of dust or direct contact by applying suitable protective measures and personal hygiene. See Material Safety Data Sheet for full safety information.

#### Handling recommendations

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

Do not store in direct sunlight. Store in a tightly closed container. Store in a cool, dry area away from incompatible substances. Keep under an argon blanket.

## Packaging, Storage & Shelf Life

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Package	25kg/drum;or according to customers' requirements.
Storage	Store in cool and dry place. It should be protected from heat, light, oxygen and moisture. Keep the container tightly closed. Once opened, use out quickly.
Shelf life	2 years if sealed and stored properly.