

## Certificate of Analysis

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**Product Name:** (S)-Methylisothiourea sulfate

**Catalog No.:** 0776

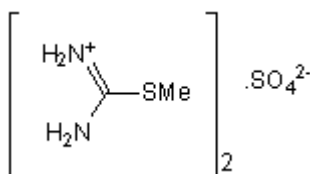
**Batch No.:** 1

**CAS Number:** 867-44-7

**EC Number:** 212-759-7

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>4</sub>H<sub>14</sub>N<sub>4</sub>O<sub>4</sub>S<sub>3</sub>  
**Batch Molecular Weight:** 278.38  
**Physical Appearance:** White crystalline solid  
**Solubility:** Soluble in water  
**Storage:** Store at RT  
**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**Melting Point:** Between 235 - 242°C(Dec)

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	17.26	5.07	20.13
Found	17.17	5.06	19.82

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

## Product Information

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**Batch No.:** 1

**CAS Number:** 867-44-7

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### Description:

Highly selective, potent competitive inhibitor of iNOS.

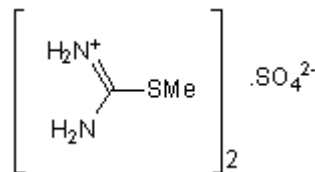
### Physical and Chemical Properties:

Batch Molecular Formula: C<sub>4</sub>H<sub>14</sub>N<sub>4</sub>O<sub>4</sub>S<sub>3</sub>

Batch Molecular Weight: 278.38

Physical Appearance: White crystalline solid

### Batch Molecular Structure:



**Storage:** Store at RT

### Solubility & Usage Info:

Soluble in water

### Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

**SOLIDS:** Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

**SOLUTIONS:** We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

### References:

**Southan *et al*** (1995) Isothioureas - potent inhibitors of nitric oxide synthases with variable isoform selectivity. *Br.J.Pharmacol.* **114** 510. PMID: 7533622.

**Iuvone *et al*** (1997) Differential effect of L-NAME and S-methyl-isothiourea on leukocyte emigration in carrageenin-soaked sponge implants in rat. *Br.J.Pharmacol.* **121** 1637. PMID: 9283697.

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