

# Sinapine thiocyanate Datasheet

4<sup>th</sup> Edition (Revised in July, 2016)

## [ Product Information ]

**Name:** Sinapine thiocyanate

**Catalog No.:** CFN90624

**Cas No.:** 7431-77-8

**Purity:** >98%

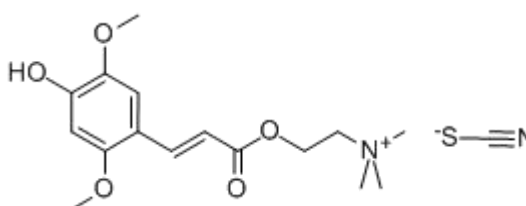
**M.F:** C<sub>16</sub>H<sub>24</sub>NO<sub>5</sub>.CNS

**M.W:** 368.45

**Physical Description:** Powder

**Synonyms:** Ethanaminium,2-[(3-(4-hydroxy-3,5-dimethoxyphenyl)-1-oxo-2-propenyl)oxy]-N,N,N-trimethyl-, thiocyanate (9ci);

2-((3-(4-Hydroxy-2,5-diMethoxyphenyl)acryloyl)oxy)-N,N,N-triMethylethanaMinium thiocyanate.



## [ Intended Use ]

1. Reference standards;
2. Pharmacological research;
3. Food research;
4. Synthetic precursor compounds;
5. Intermediates & Fine Chemicals;
6. Others.

## [ Source ]

The seeds of *Raphanus sativus* L.

### **[ Biological Activity or Inhibitors ]**

Sinapine thiocyanate is the main component in extracts of Brassica rapa seeds, it has antioxidant activities and is hepatoprotective in a dose-dependent manner, implies that Brassica rapa seeds could be developed as a functional food for hepatoprotection.<sup>[1]</sup>

### **[ Solvent ]**

Pyridine, Methanol, Ethanol, etc.

### **[ HPLC Method ]<sup>[2]</sup>**

Mobile phase: 0.08 M Acetonitrile- Potassium dihydrogen phosphate=15:85 ;

Flow rate: 1.0 ml/min;

Column temperature: 25 °C;

The wave length of determination: 318 nm.

### **[ Storage ]**

2-8°C, Protected from air and light, refrigerate or freeze.

### **[ References ]**

[1] Fu R, Zhang Y, Guo Y, *et al. J.Funct. Foods*, 2016, 22:73-81.

[2] Huang D J, Wang J, Jiang C C, *et al. Food Science & Technology*, 2009(10):259-62.

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