

## Ethyl cinnamate Datasheet

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

### [ Product Information ]

**Name:** Ethyl cinnamate

**Catalog No.:** CFN98199

**Cas No.:** 103-36-6

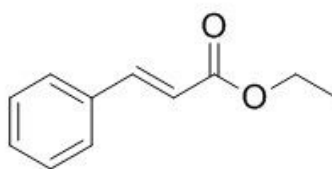
**Purity:** >=99%

**M.F:** C<sub>11</sub>H<sub>12</sub>O<sub>2</sub>

**M.W:** 176.21

**Physical Description:** Oil

**Synonyms:** Ethyl trans-3-Phenylacrylate; Ethylphenylacryate.



### [ Intended Use ]

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

### [ Source ]

The barks of *Cinnamomum cassia* Presl.

### [ Biological Activity or Inhibitors ]

Ethyl cinnamate has antifungal properties. <sup>[1]</sup>

Ethyl cinnamate has vasorelaxant effect, it can inhibit the tonic contractions induced by high K<sup>+</sup> and phenylephrine (PE) in a concentration-dependent manner, with respective IC<sub>50</sub> values of 0.30 +/- 0.05 mM and 0.38 +/- 0.04 mM, the inhibitory effects of ethyl cinnamate may involve inhibition of Ca<sup>2+</sup> influx into vascular cells and release of nitric oxide (NO) and prostacyclin from the endothelial cell.<sup>[2]</sup>

## **[ Solvent ]**

Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.

## **[ HPLC Method ]<sup>[3]</sup>**

Mobile phase: Diethyl ether-Dichloromethane-Hexane=7.0:1.5:91.5 ;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 220 nm.

## **[ Storage ]**

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

## **[ References ]**

[1] Dubey N K, Tiwari T N, Mandin D, *et al. Fitoterapia*, 2000, 71(5):567-9.

[2] Othman R H, Mohd M A, Awang K, *et al. Planta Med.*, 2002, 68(7):655-7.

[3] López R, Ferreira V, Cacho J F. *J. Sci. Food Agr.*, 1999, 79(11):1461-7.

## **[ Contact ]**

### **Address:**

S5-3 Building, No. 111, Dongfeng Rd.,  
Wuhan Economic and Technological Development Zone,  
Wuhan, Hubei 430056,  
China

**Email:** info@chemfaces.com

**Tel:** +86-27-84237783

**Fax:** +86-27-84254680

**Web:** [www.chemfaces.com](http://www.chemfaces.com)

**Tech Support:** service@chemfaces.com