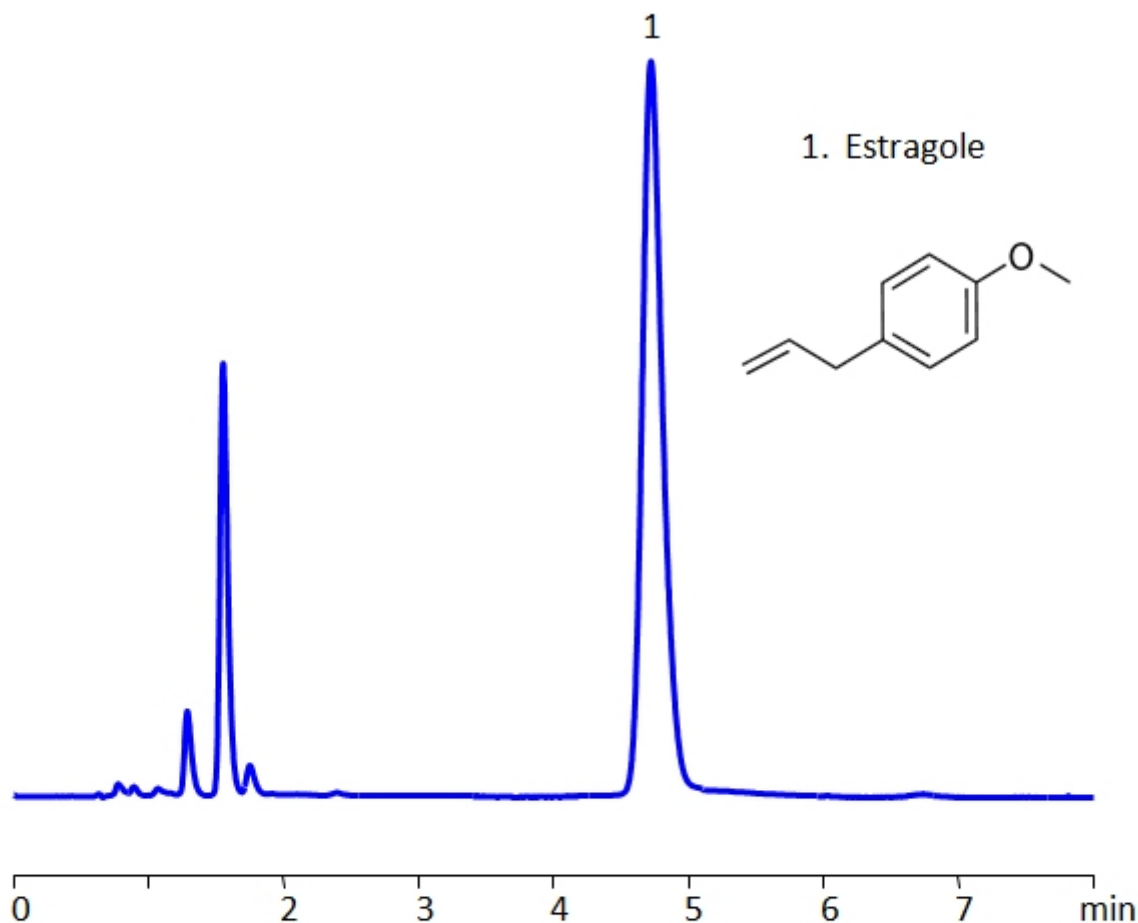


# HPLC Method of Estragole on Newcrom R1 Column

<https://sielc.com/hplc-method-of-estragole-on-newcrom-r1-column>

## Chromatogram



|                      |                                       |
|----------------------|---------------------------------------|
| <b>Column:</b>       | Newcrom R1                            |
| <b>Column size:</b>  | 3.2 × 100 mm, 5 µm                    |
| <b>Mobile phase:</b> | MeCN/H <sub>2</sub> O - 60/40%        |
| <b>Buffer:</b>       | H <sub>2</sub> SO <sub>4</sub> – 0.1% |
| <b>Flow rate:</b>    | 0.5 mL/min                            |
| <b>UV detection:</b> | 275 nm                                |

## Description

· High Performance Liquid Chromatography (HPLC) Method for Analysis of Estragole.

Estragole is a phenylpropene with the chemical formula C<sub>10</sub>H<sub>12</sub>O. It is found in a variety of plants including but not limited to anise, fennel, bay, tarragon, and basil. It is used in preparation of perfumes and food flavorings.

Estragole can be retained in HPLC on Newcrom R1 reverse-phase column using an isocratic analytical method with a simple mobile phase of water, acetonitrile (MeCN, ACN), and Sulfuric Acid buffer. Detection can be achieved by UV detected at 275 nm.

## Method Parameters

|                     |                                       |
|---------------------|---------------------------------------|
| Mobile Phase        | MeCN/H <sub>2</sub> O – 60/40%        |
| Buffer              | H <sub>2</sub> SO <sub>4</sub> – 0.1% |
| Flow Rate           | 0.5 ml/min                            |
| Detection           | UV, 275 nm                            |
| Class of Compounds  | Phenylpropene                         |
| Analyzing Compounds | Estragole                             |

## HPLC Column Used

**Newcrom R1, 3.2 x 100 mm, 5 µm, 100 A, dual ended**

[Order this column at hplc-shop.de →](https://www.hplc-shop.de)