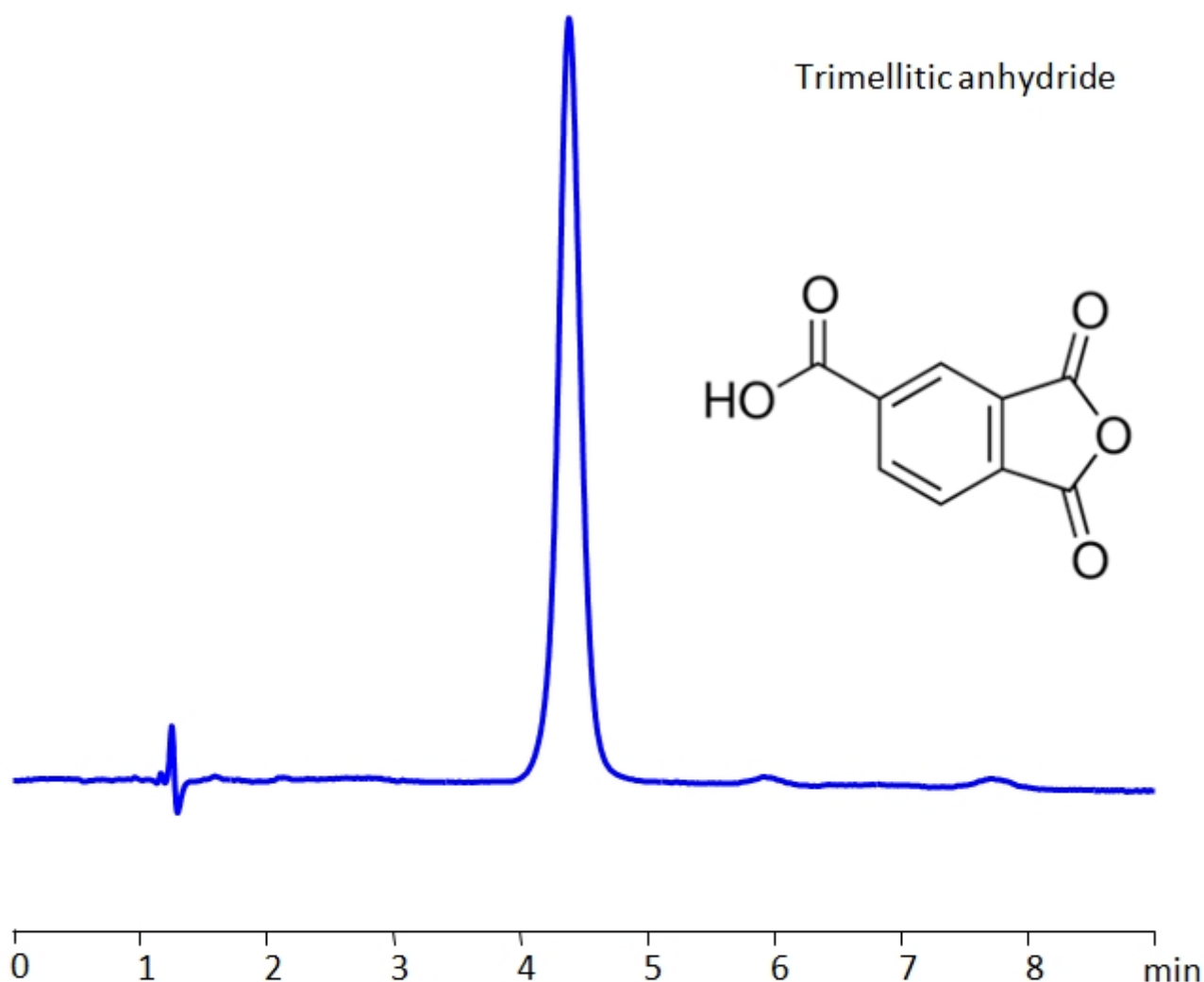


## HPLC Determination of Trimellitic anhydride on Newcrom BH

<https://sielc.com/hplc-determination-of-trimellitic-anhydride-on-newcrom-bh>

### Chromatogram



|                      |                                       |
|----------------------|---------------------------------------|
| <b>Column:</b>       | Newcrom BH                            |
| <b>Column size:</b>  | 3.2 × 100 mm, 5 µm                    |
| <b>Mobile phase:</b> | MeCN/H <sub>2</sub> O – 5/95%         |
| <b>Buffer:</b>       | H <sub>2</sub> SO <sub>4</sub> – 0.2% |
| <b>Flow rate:</b>    | 0.5 ml/min                            |
| <b>Detection:</b>    | UV 210 nm                             |

### Description

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

Trimellitic anhydride is a trifunctional, highly reactive aromatic anhydride with the chemical formula  $C_9H_4O_5$ . It is used as a curing agent for epoxy and other resins; in vinyl plasticizers, paints, coatings, dyes, pigments and a wide variety of other manufactured products.

Trimellitic anhydride can be retained in HPLC with a Newcrom BH mixed-mode column using a mobile phase of acetonitrile (ACN) and water and Sulfuric Acid ( $H_2SO_4$ ) buffer allowing the use of a UV detector at 210 nm.

#### Method Parameters

|                     |                                       |
|---------------------|---------------------------------------|
| Mobile Phase        | MeCN/H <sub>2</sub> O – 5/95%         |
| Buffer              | H <sub>2</sub> SO <sub>4</sub> – 0.2% |
| Flow Rate           | 0.5 ml/min                            |
| Detection           | 210 nm                                |
| Class of Compounds  | Anhydride, Hydrophobic                |
| Analyzing Compounds | Trimellitic anhydride                 |

#### HPLC Column Used

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

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