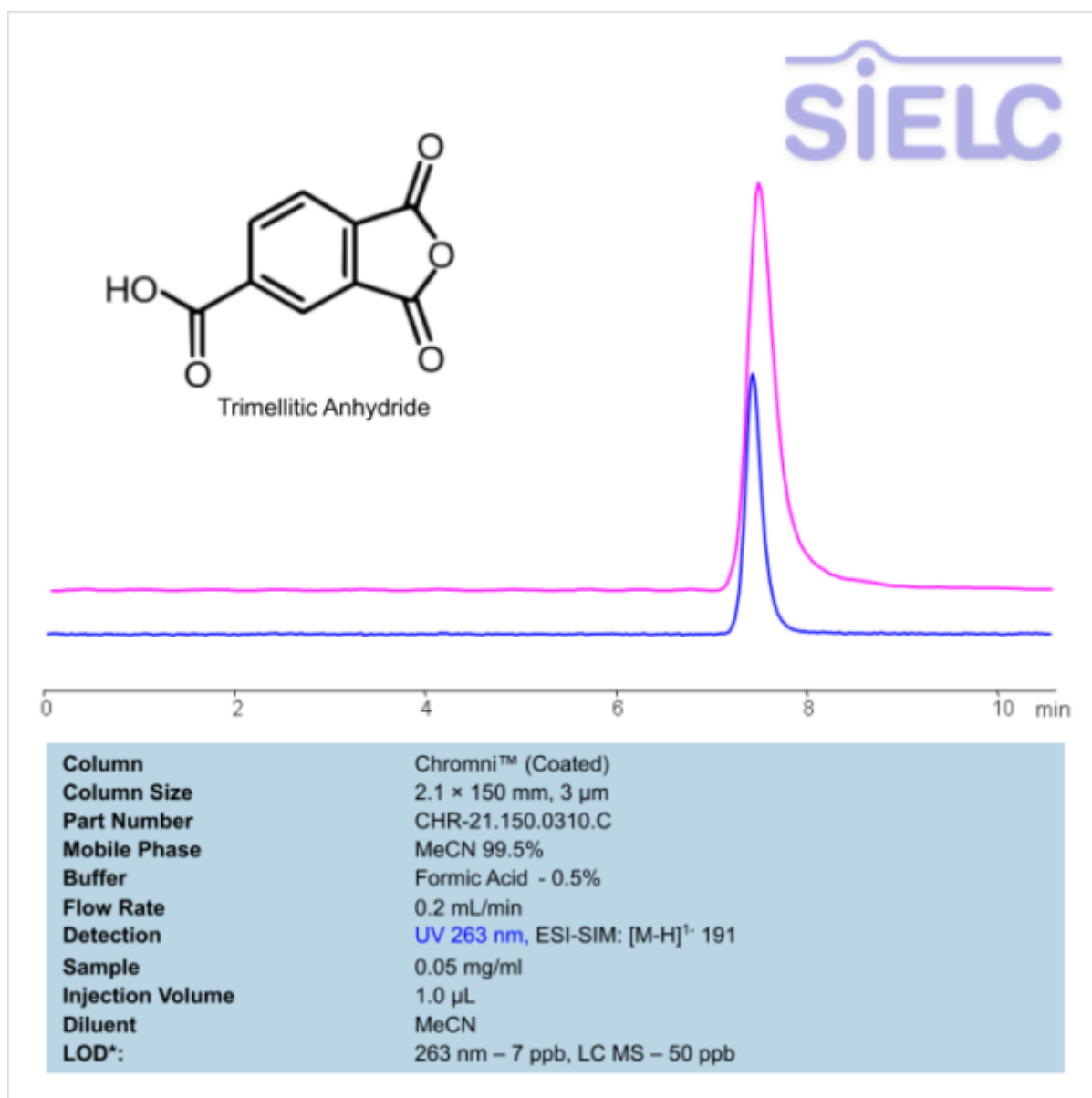


HPLC MS Method for Analysis of Trimellitic anhydride on Chromni Column

<https://sielc.com/hplc-ms-analysis-of-trimellitic-anhydride>

Chromatogram



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 C₉H₄O₅. 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. It is a common precursor to plasticizers for polyvinyl chloride (PVC). In acidic water, Trimellitic Anhydride will 'open up' back into Trimellitic Acid. You can find detailed UV spectra of Trimellitic anhydride and information about its various lambda maxima by visiting the following link.

Trimellitic anhydride is analyzed using a Chromni stationary phase column under gradient conditions with a mobile phase composed of acetonitrile (MeCN) and water. Detection is performed by UV absorbance detection.

Method Parameters

Mobile Phase	MeCN – 99.5%
Buffer	Formic Acid – 0.5%
Flow Rate	0.2 mL/min
Detection	UV 263 nm, ESI-SIM: [M-H] ⁺ 1-191
Limit of Detection*	263 nm – 7 ppb, LC MS – 50 ppb
Class of Compounds	Organic Compound
Analyzing Compounds	Trimellitic anhydride

HPLC Column Used

Chromni, 2.1 x 150 mm, 3 µm, 100 Å, surface coated

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