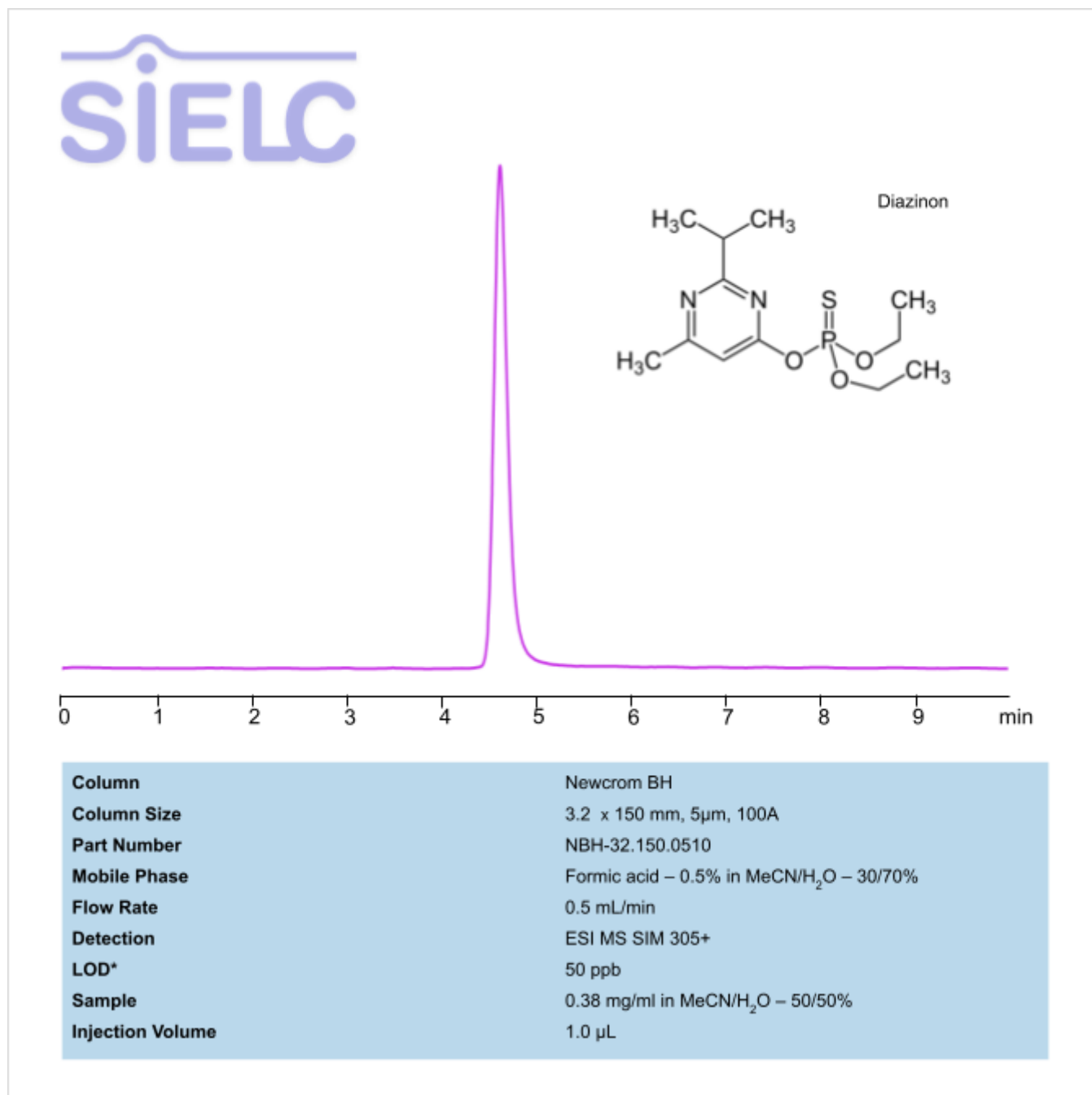


# HPLC MS Method for Analysis of Diazinon on Newcrom BH Column

<https://sielc.com/hplc-ms-separation-of-diazinon-on-newcrombh>

## Chromatogram



<b>Column</b>	Newcrom BH
<b>Column Size</b>	3.2 x 150 mm, 5µm, 100A
<b>Part Number</b>	NBH-32.150.0510
<b>Mobile Phase</b>	Formic acid – 0.5% in MeCN/H <sub>2</sub> O – 30/70%
<b>Flow Rate</b>	0.5 mL/min
<b>Detection</b>	ESI MS SIM 305+
<b>LOD*</b>	50 ppb
<b>Sample</b>	0.38 mg/ml in MeCN/H <sub>2</sub> O – 50/50%
<b>Injection Volume</b>	1.0 µL

## Description

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

Diazinon is an insecticide with the chemical formula C<sub>12</sub>H<sub>21</sub>N<sub>2</sub>O<sub>3</sub>PS. Due to its high toxicity to vertebrates which leads to headaches, vomiting, apnea, and more, it has been banned in the United States since 2004. You can find detailed UV spectra of Diazinon and information about its various lambda maxima by visiting the following link.

Diazinon can be retained and analyzed using the Newcrom BH stationary phase column. The analysis utilizes an isocratic method with a simple mobile phase consisting of water and acetonitrile (MeCN) with a sulfuric acid buffer. Detection is performed using UV.

## Method Parameters

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<b>Mobile Phase</b>	MeCN/H <sub>2</sub> O – 30/70%
<b>Buffer</b>	H <sub>2</sub> SO <sub>4</sub> – 0.1%
<b>Flow Rate</b>	0.5 ml/m
<b>Detection</b>	UV 194 nm
<b>Class of Compounds</b>	Insecticide
<b>Analyzing Compounds</b>	Diazinon

## HPLC Column Used

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**Newcrom BH, 3.2 x 150 mm, 5 µm, 100 A, dual ended**

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