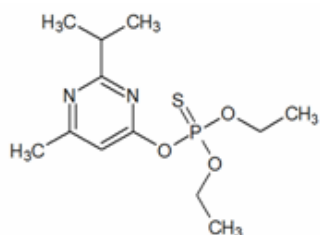


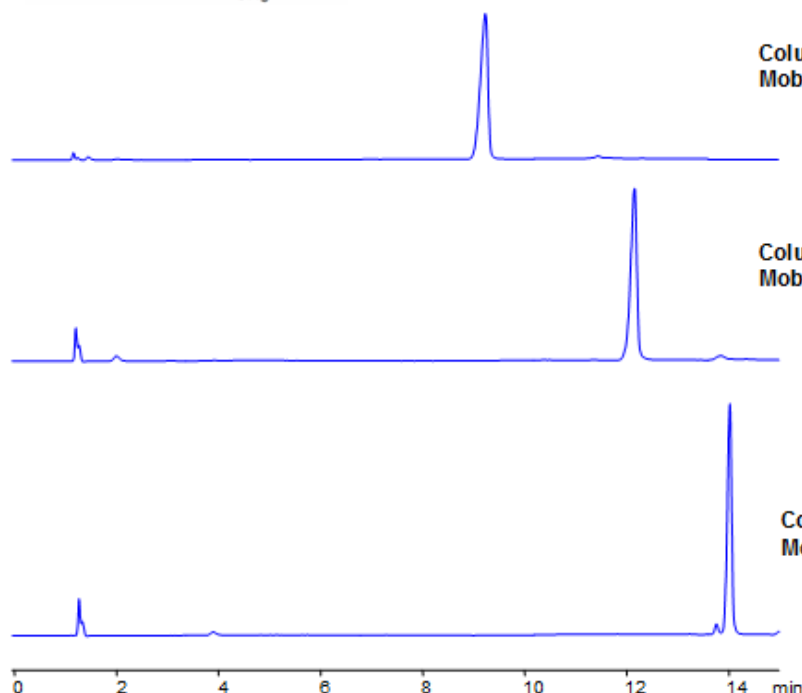
# HPLC Diazinon Analysis on Primesep 100 column

<https://sielc.com/Application-HPLC-Diazinon-Analysis-on-Primesep-100-and-Obelisc-R-columns>

## Chromatogram



**Size:** 2.1 x 150 mm  
**Flow:** 0.4 mL/min  
**Detection:** UV 270 nm



**Column:** Obelisc R, 5µm  
**Mobile phase:** MeCN gradient from 25% to 70% in 15 min, AmAc pH 3.0 from 30 mM to 60 mM

**Column:** Obelisc R, 5µm  
**Mobile phase:** MeCN gradient from 10% to 70% in 15 min, AmAc pH 3.0 from 20 mM to 60 mM

**Column:** Primesep 100, 3µm  
**Mobile phase:** MeCN gradient from 10% to 70% in 15 min, AmAc pH 3.0 from 20 mM to 60 mM

## Description

Diazinon is a thiophosphoric acid ester which was used to control cockroaches, fleas, and silverfish in residential buildings. Diazinon is considered to be toxic for vertebrates causing a number of observed symptoms such as convulsions, headaches, and vomiting. Diazinon was outlawed for residential use in the U.S. in 2004, but can be used in agricultural industries. There is a lot of interest in analyzing diazinon: it was analyzed in an analysis of acidic compounds by the EURL (European Union Reference Library) using QuEChERS methodology. Primesep 100 and Obelisc R were used to separate diazinon with unique selectivity. Method is LC/MS compatible and can be replicated for dozens of pesticides.

## Method Parameters

<b>Mobile Phase</b>	Gradient MeCN – 10-70%, 15 min
<b>Buffer</b>	Gradient AmAc pH 3.0- 20-60 mM, 15 min
<b>Flow Rate</b>	0.4 ml/min
<b>Detection</b>	UV, 270 nm
<b>Class of Compounds</b>	Insecticide, Hydrophobic, Ionizable

HPLC Column Used

**Primesep 100, 2.1×150 mm, 5 µm, 100A**

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