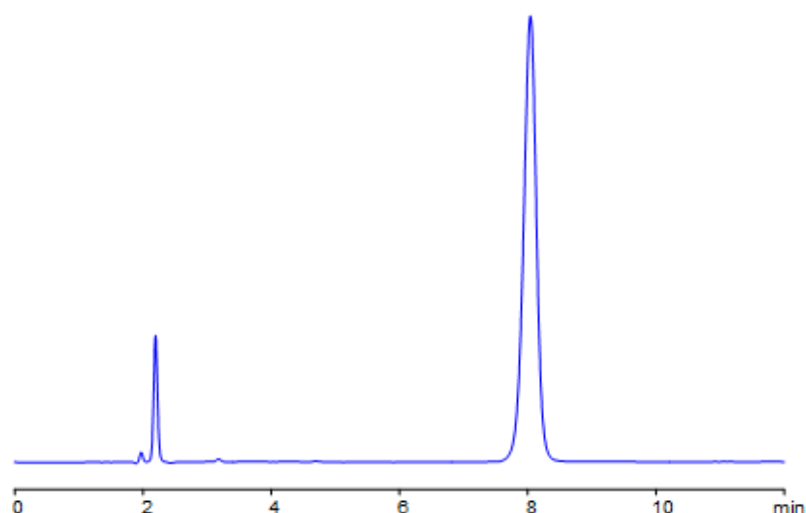


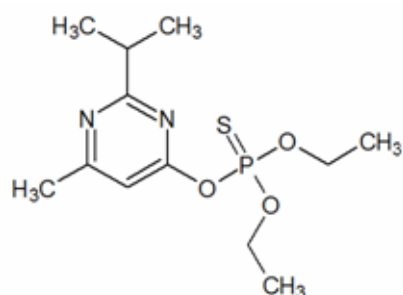
HPLC Analysis of Diazinon

<https://sielc.com/Application%20HPLC%20Analysis%20of%20Diazinon>

Chromatogram



Column: Obelisc R
Dimensions: 150 x 4.6mm
Mobile Phase: 40% MeCN
Buffer: 20mM AmFm pH 3.0
Flow: 1.0 ml/min
Detection: UV 250 nm



Description

Diazinon is a nonsystemic organophosphate insecticide developed in the early 1950's. It was heavily used as an all-purpose indoor/outdoor home pesticide, but was banned for home use in 2004. The thiophosphoric ester in diazinon can form toxic phosphine gases and phosphorus oxides. The EUROL included diazinon as a target pesticide for the EUPT-CF9. Obelisc R was used to retain diazinon and separate it from impurities. Obelisc R contains embedded ionic and hydrophobic groups which can assist in fine tuning separations. Method is LC/MS compatible and can be used as a general approach for analyzing diazinon and other organophosphate insecticides.

Method Parameters

Mobile Phase	MeCN – 40%
Buffer	AmFm pH 3.0- 20 mM
Flow Rate	1.0 ml/min
Detection	UV, 250 nm
Class of Compounds	Insecticide, Herbicide, Fungicide, Hydrophobic, Ionizable
Analyzing Compounds	Diazinon

HPLC Column Used

Obelisc R, 4.6×150 mm, 5 µm, 100A

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