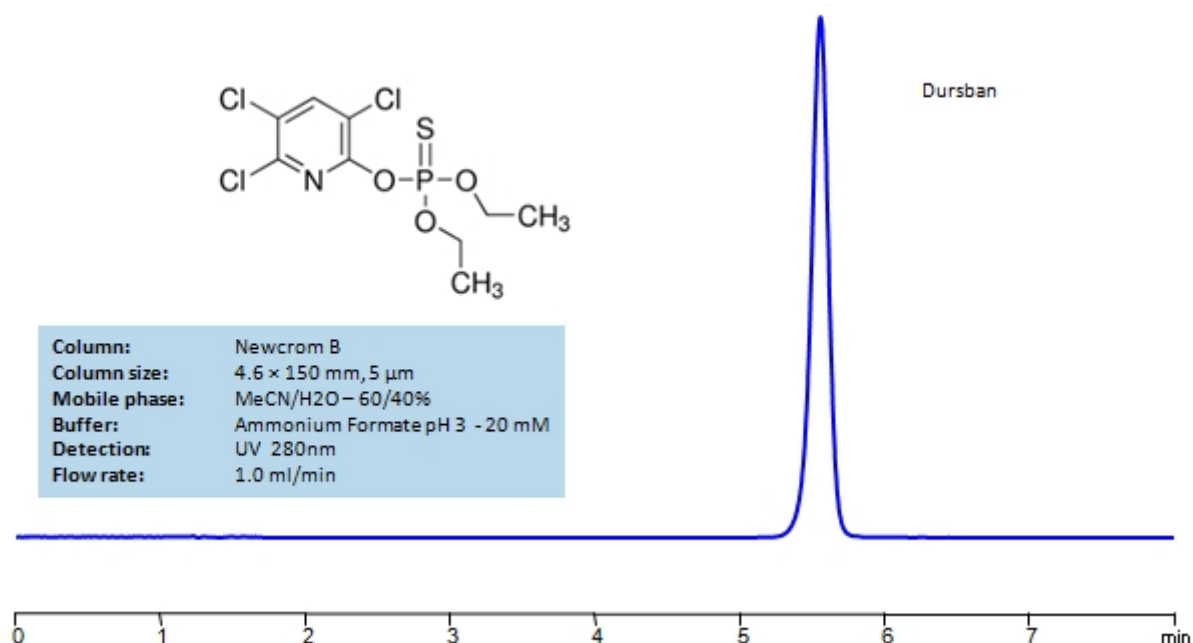


HPLC Determination of Dursban on Newcrom B Column

<https://sielc.com/hplc-determination-of-dursban-on-newcrom-b-column>

Chromatogram



HPLC Determination of Dursban on Newcrom B Column_1216

Description

· High Performance Liquid Chromatography (HPLC) Method for Analysis of Chlorpyrifos-methyl (Dursban) .

Dursban is a highly toxic organophosphate with the chemical formula C₉H₁₁Cl₃NO₃PS . It works through interrupting the electrochemical processes in nerves. This leads to a build-up of acetylcholine, which leads to paralysis and eventual death.

Chlorpyrifos-methyl (Dursban) can be retained and analyzed using the Newcrom B stationary phase column. The analysis utilizes an isocratic method with a simple mobile phase consisting of water and acetonitrile (MeCN) with an Ammonium Formate buffer. Detection is performed using UV.

Method Parameters

Mobile Phase	MeCN/H ₂ O – 60/40%
Buffer	AmFm pH 3.0 – 20 mM
Flow Rate	1.0 ml/min
Detection	UV, 280 nm
Class of Compounds	Hydrophobic, Herbicide, Pesticide
Analyzing Compounds	Chlorpyrifos-methyl (Dursban)

HPLC Column Used

Newcrom B, 4.6 x 150 mm, 5 µm, 100 Å, dual ended

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