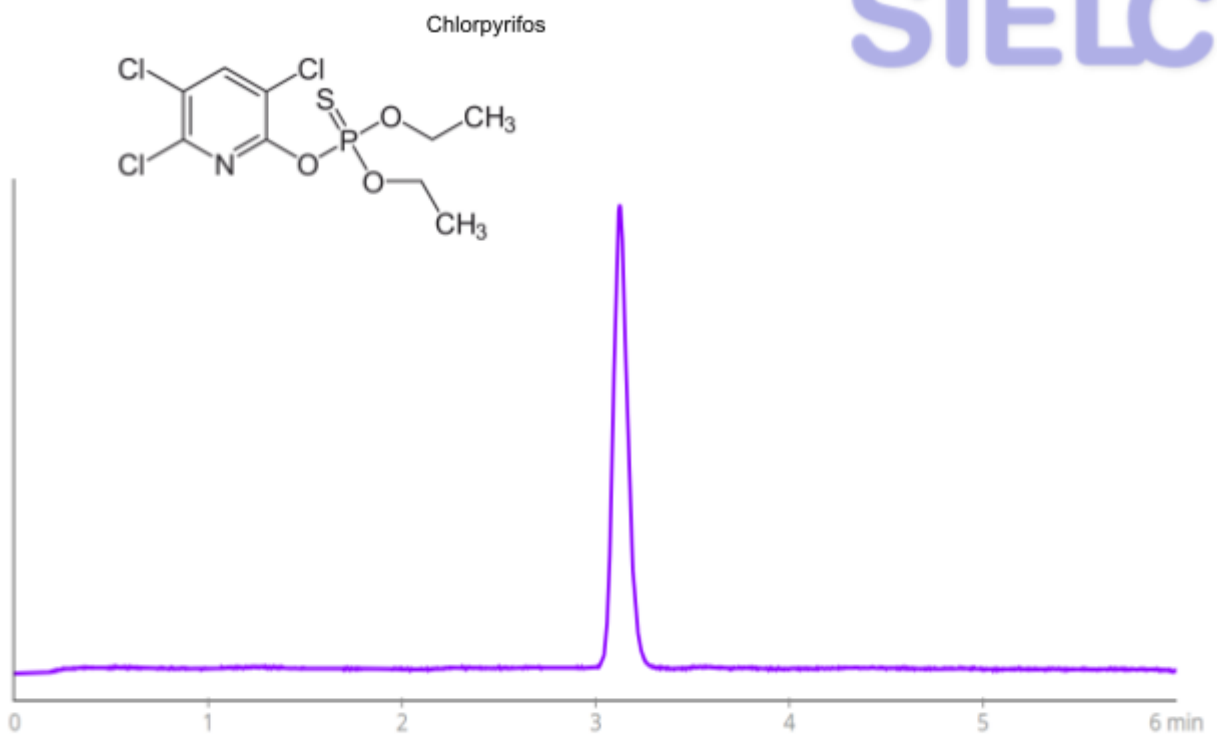
HPLC Method for Analysis of Chlorpyrifos (Dursban) on Newcrom B Column on Alltesta™

https://sielc.com/hplc-method-for-analysis-of-chlorpyrifos

Chromatogram



Column	Newcrom B
Column Size	4.6 x 150 mm, 5 µm
Part Number	NB-46.150.0510
Mobile Phase	MeCN/H_2O - 70/30%
Buffer	AmFm pH 3.0- 20 mM
Flow Rate	1.0 mL/min
Injection Volume	1 µL
Detection	UV 275 nm
Device	Alltesta™ Gradient Automated Analyzer

Description

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

Chlorpyrifos , also known as Dursban , is a highly toxic organophosphate with the chemical formula C 9 H 11 Cl 3 NO 3 PS . 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 ammonium formate as a

buffer. Detection is performed using UV.

Method Parameters

Mobile Phase	MeCN – 70%
Buffer	Ammonium Formate
Flow Rate	1.0 mL/min
Detection	UV 275 nm
Class of Compounds	Pesticide
Analyzing Compounds	Chlorpyrifos-methyl (Dursban)

HPLC Column Used

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

Order this column at hplc-shop.de →