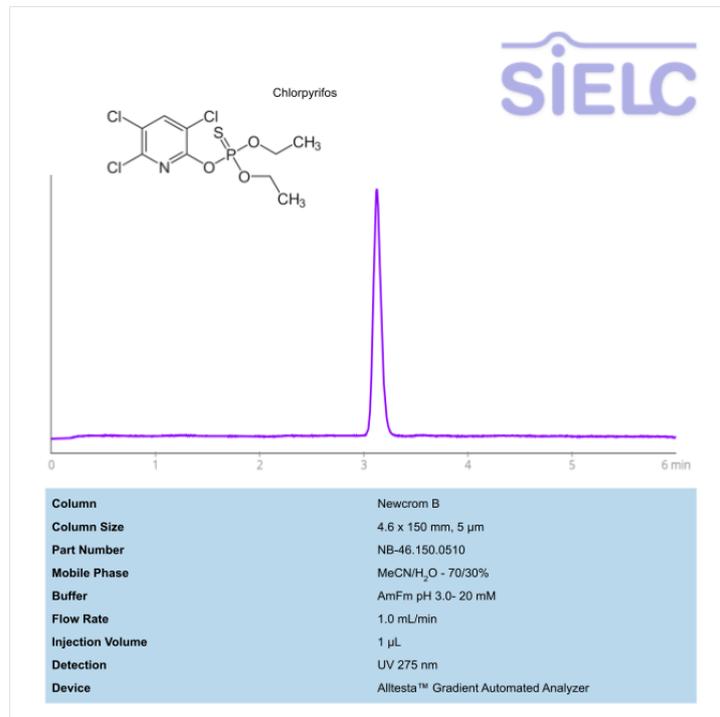


HPLC Method for Analysis of Chlorpyrifos (Dursban) on Newcrom B Column on Alltesta™



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 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 ammonium formate as a buffer. Detection is performed using UV.

Method Parameters

Column	Newcrom B, 4.6 x 150 mm, 5 µm, 100 Å, dual ended
Mobile Phase	MeCN – 70%
Buffer	Ammonium Formate
Flow Rate	1.0 mL/min
Detection	UV 275 nm

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