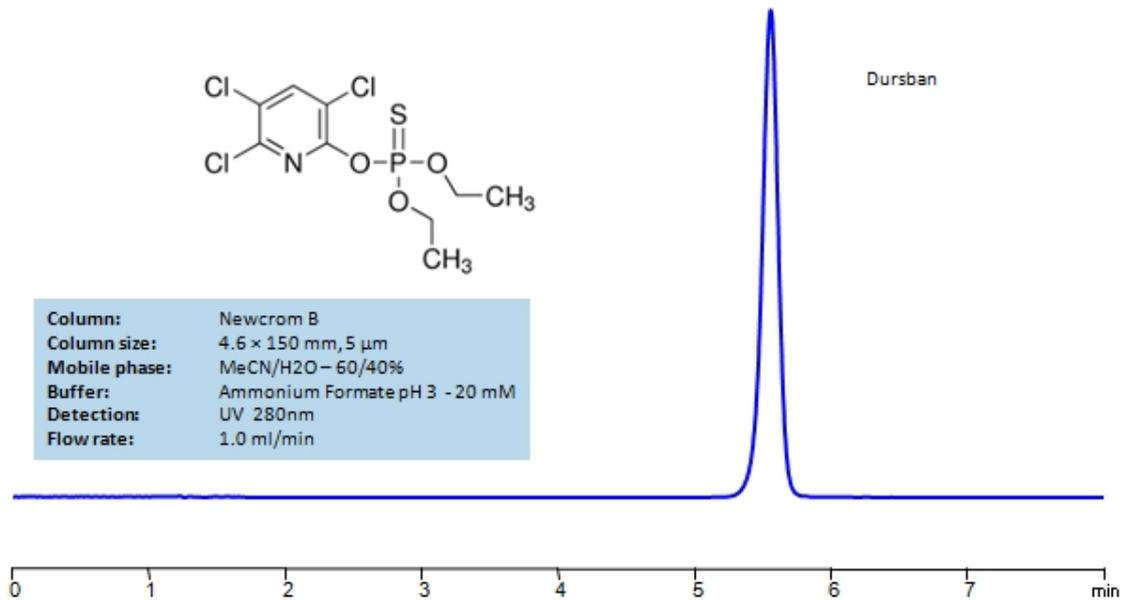


HPLC Determination of Dursban on Newcrom B Column



Column:	Newcrom B
Column size:	4.6 × 150 mm, 5 µm
Mobile phase:	MeCN/H ₂ O – 60/40%
Buffer:	Ammonium Formate pH 3 - 20 mM
Detection:	UV 280nm
Flow rate:	1.0 ml/min

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

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

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