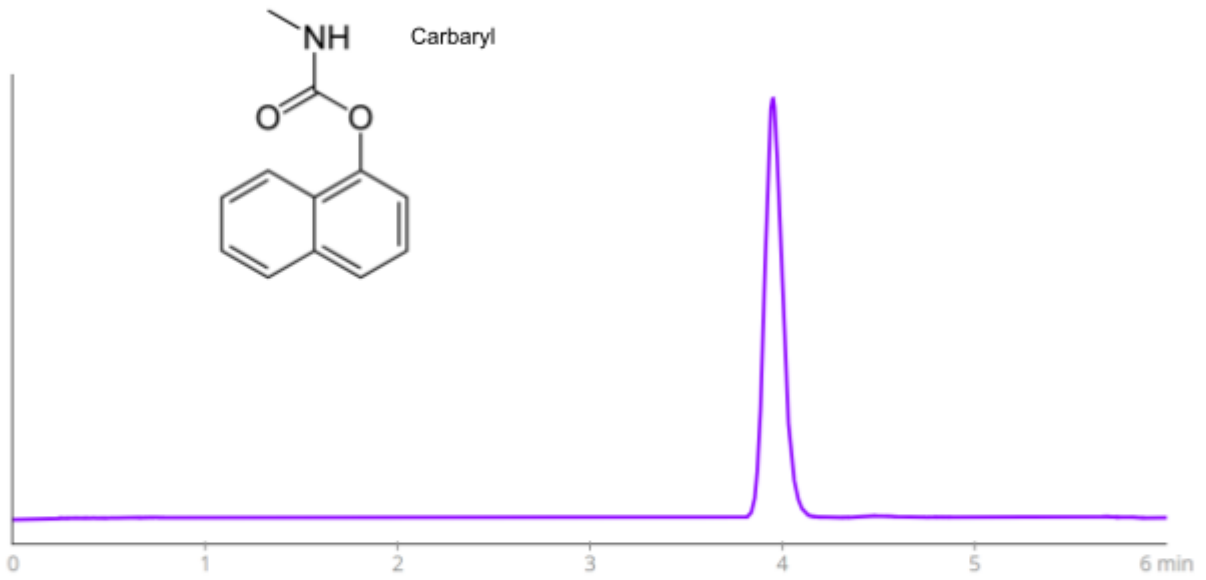
HPLC Method for Analysis of Carbaryl on Newcrom B Column on Alltesta™

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

Chromatogram



Column	Newcrom B
Column Size	4.6 x 150 mm, 5 µm
Part Number	NB-46.150.0510
Mobile Phase	MeCN/H_2O - 50/50%
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 Carbaryl

Carbaryl , also known as Sevin and 1-naphthyl methylcarbamate, is an insecticide with the chemical formula C 12 H 11 NO 2 . It works as a cholinesterase inhibitor. Carbaryl is highly toxic to zooplankton and works on both targeted and beneficial insects. It is classified as a potential human carcinogen.

Carbaryl 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 – 50%
Buffer	Ammonium Formate
Flow Rate	1.0 mL/min
Detection	UV 275 nm
Class of Compounds	Pesticide
Analyzing Compounds	Carbaryl

HPLC Column Used

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

Order this column at hplc-shop.de →