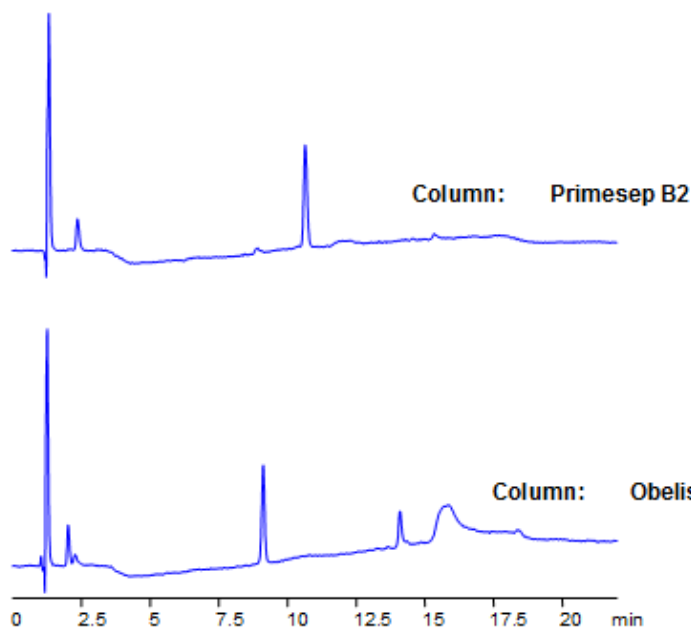


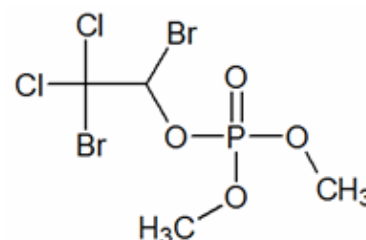
Analysis of Naled on Primesep and Obelisc Mixed-Mode HPLC Columns

<https://sielc.com/Application-Analysis-of-Naled-on-Primesep-and-Obelisc-Mixed-Mode-HPLC-Columns>

Chromatogram



Dimensions: 150 x 2.1 mm
Mobile Phase: MeCN gradient from 10% to 70% in 15 min, 7 min hold. AmAc pH 4.5 from 20 mM to 50 mM in 15 min, 7 min hold
Flow: 0.4 ml/min
Detection: UV 250 nm



Description

Naled is an organophosphate insecticide that shows relatively low toxicity. While home use has been discontinued, naled is still used in public mosquito eradication programs. Naled can be reduced to dichlorvos, which the EURL (European Union Reference Laboratory), included as a target pesticide for the EUPT-CF9 a proficiency test for cereals and feedingstuff that require multi-residue methods. Primesep B2 and Obelisc R were used to retain naled and separate it from impurities. Primesep B2 contains embedded basic ion-pairing groups and Obelisc R contains embedded ionic and hydrophobic groups which can assist in fine tuning separations. Method is LC/MS compatible and can be used as a general approach for analyzing naled, other organophosphate insecticides, and dozens of other pesticides.

Method Parameters

Mobile Phase	Gradient MeCN – 10-70%, 15 min, 7 min hold
Buffer	Gradient AmAc pH 4,5- 20-50 mM, 15 min, 7 min hold
Flow Rate	0.4 ml/min
Detection	UV, 250 nm
Class of Compounds	Insecticide, Herbicide, Fungicide, Hydrophobic, Ionizable
Analyzing Compounds	Naled

HPLC Column Used

Obelisc R, 2.1×150 mm, 5 µm, 100A

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