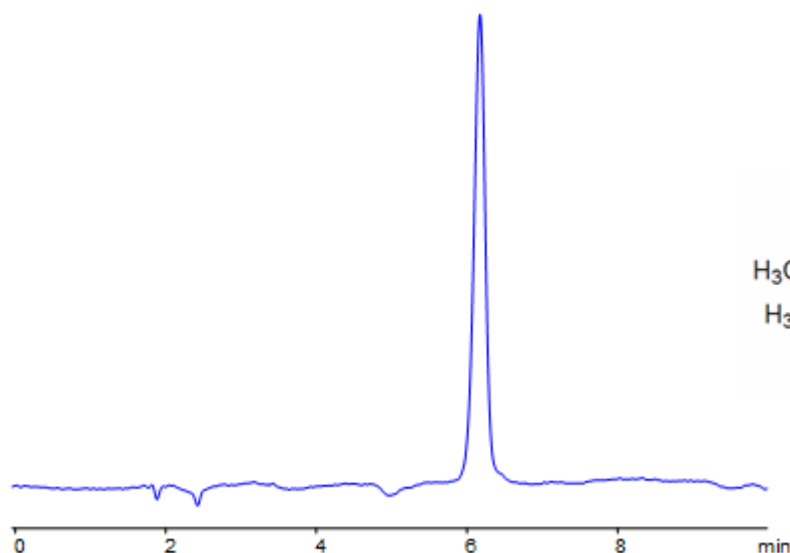


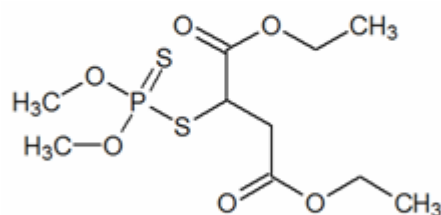
HPLC Analysis of Malathion

<https://sielc.com/Application%20HPLC%20Analysis%20of%20Malathion>

Chromatogram



Column: Obelisc R
Dimensions: 150 x 4.6mm
Mobile Phase: 40% MeCN
Buffer: 20mM AmFm pH 3.0
Flow: 1.0 ml/min
Detection: UV 250 nm



Description

Malathion is the most widely used organophosphate pesticide used in the U.S.. Used heavily in residential landscaping and in public recreation areas, malathion is often used for fruit fly and mosquito eradication. While not considered toxic to humans, malathion metabolizes to a far more toxic malaoxon. The EURL included malathion as a target pesticide for the EUPT-CF9. Obelisc R was used to retain malathion and separate it from impurities. 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 malathion and other organophosphate insecticides.

Method Parameters

Mobile Phase	MeCN – 40%
Buffer	AmFm pH 3.0- 20 mM
Flow Rate	1.0 ml/min
Detection	UV, 250 nm
Class of Compounds	Insecticide, Herbicide, Fungicide, Hydrophobic, Ionizable
Analyzing Compounds	Malathion

HPLC Column Used

Obelisc R, 4.6×150 mm, 5 µm, 100A

[Order this column at hplc-shop.de →](#)