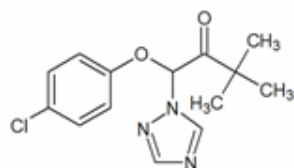


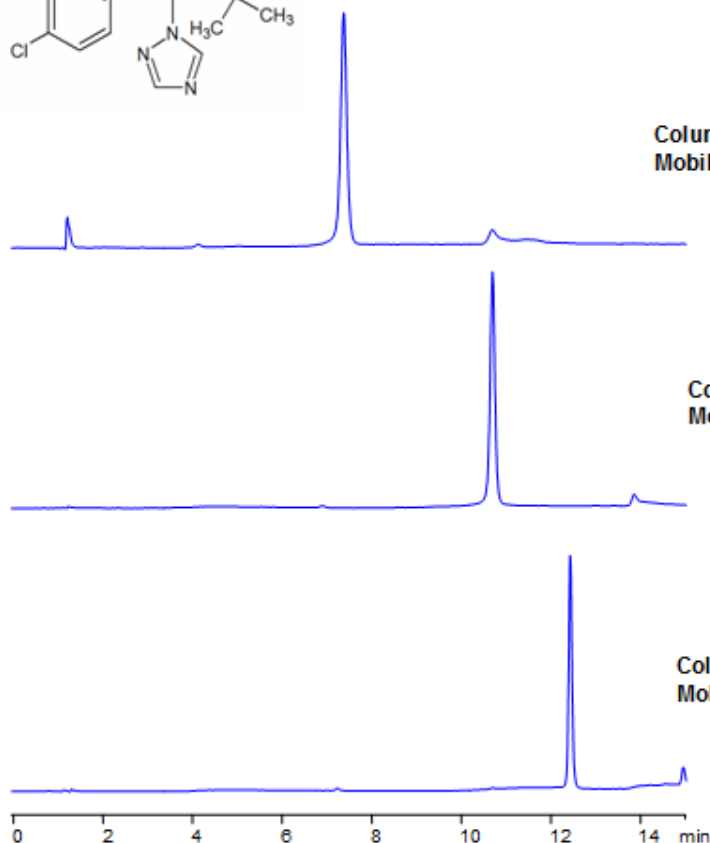
Separating Triadimefon from Impurities on Primesep 100 and Obelisc R HPLC Columns

<https://sielc.com/Application-Separating-Triadimefon-from-Impurities-on-Primesep-and-Obelisc-HPLC-Columns>

Chromatogram



Size: 2.1 x 150 mm
Flow: 0.4 mL/min
Detection: UV 270 nm



Column: Obelisc R, 5µm
Mobile phase: MeCN gradient from 25% to 70% in 15 min, AmAc pH 3.0 from 30 mM to 60 mM

Column: Obelisc R, 5µm
Mobile phase: MeCN gradient from 10% to 70% in 15 min, AmAc pH 3.0 from 20 mM to 60 mM

Column: Primesep 100, 3µm
Mobile phase: MeCN gradient from 10% to 70% in 15 min, AmAc pH 3.0 from 20 mM to 60 mM

Description

Triadimefon is known as Bayleton, usually used in a mixture of pesticides including captan, and folpet. A triazole family pesticide, triadimefon is a systemic fungicide that controls the mildew and fungal pests on trees, turf and fruits. It is considered moderately toxic and a method is useful for analyzing triadimefon. Primesep 100 and Obelisc R were the mixed-mode columns used. Primesep 100 separates using reverse-phase and acidic ion-pairing groups. Obelisc R uses a long hydrophobic chain and multiple ion-pairing groups. Method is LC/MS compatible and can be used for dozens of pesticides.

Method Parameters

Mobile Phase	Gradient MeCN – 10-70%, 15 min
Buffer	Gradient AmAc pH 3.0- 20-60 mM, 15 min
Flow Rate	0.4 ml/min
Detection	UV, 270 nm
Class of Compounds	Insecticide, Herbicide, Fungicide, Hydrophobic, Ionizable

HPLC Column Used

Primesep 100, 2.1×150 mm, 5 µm, 100A

[Order this column at hplc-shop.de →](http://hplc-shop.de)