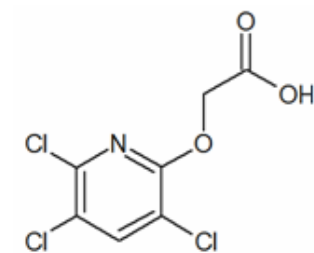


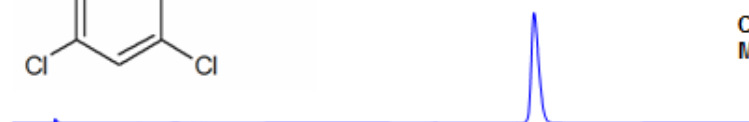
# HPLC Separation of Triclopyr

<https://sielc.com/HPLC%20Separation%20of%20Triclopyr>

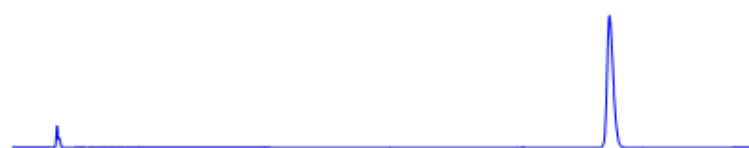
## Chromatogram



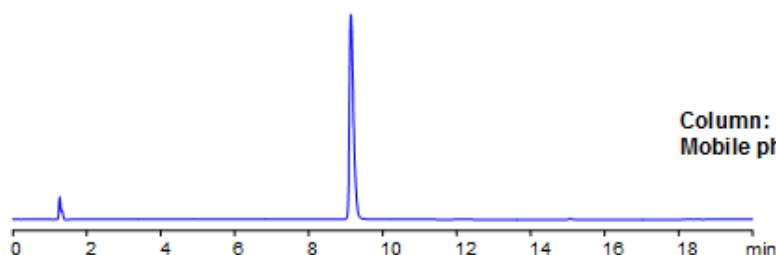
**Size:** 2.1 x 150 mm  
**Flow:** 0.4 mL/min  
**Detection:** UV 270 nm



**Column:** Obelisc R  
**Mobile phase:** MeCN gradient 25% to 70% in 15 min, 7 minute hold, AmFm pH 3.0 gradient from 30 mM to 60 mM



**Column:** Obelisc R  
**Mobile phase:** MeCN gradient 10% to 70% in 15 min, 7 minute hold, AmFm pH 3.0 gradient from 20 mM to 60 mM



**Column:** Primesep 100  
**Mobile phase:** MeCN gradient 10% to 70% in 15 min, 7 minute hold, AmFm pH 3.0 gradient from 20 mM to 60 mM

## Description

Triclopyr (3,5,6-Trichloro-2-pyridinyloxyacetic acid) is sold under the brand names Turflon, Weed-B-Gon, and Brush-B-Gon. Triclopyr controls broad leaf plants and is very similar to the pesticide it replaced 2,4,5-T. The EURL (European Union Reference Laboratory) included triclopyr in an analysis of acidic pesticides using QuEChERS method. Primesep 100 and Obelisc R were used to retain and separate triclopyr from impurities. Method is LC/MS compatible and developed to be used for many pesticides.

## Method Parameters

|                            |                                                           |
|----------------------------|-----------------------------------------------------------|
| <b>Mobile Phase</b>        | Gradient MeCN – 10-70%, 15 min, 7 min hold                |
| <b>Buffer</b>              | Gradient AmAc pH 3.0- 20-60 mM, 15 min, 7 min hold        |
| <b>Flow Rate</b>           | 0.4 ml/min                                                |
| <b>Detection</b>           | UV, 270 nm                                                |
| <b>Class of Compounds</b>  | Insecticide, Herbicide, Fungicide, Hydrophobic, Ionizable |
| <b>Analyzing Compounds</b> | Triclopyr                                                 |

## HPLC Column Used

**Primesep 100, 2.1×150 mm, 5 µm, 100A**

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