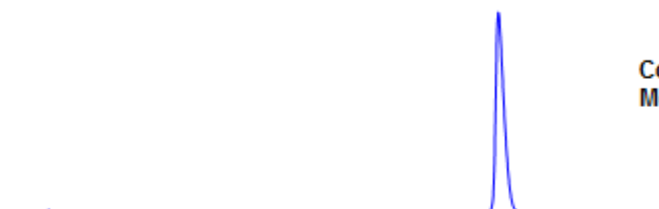
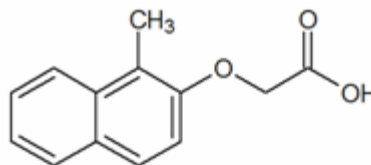


HPLC Separation of 2-Naphthoxyacetic acid

<https://sielc.com/Application-HPLC-Separation-of-2-Naphthoxyacetic-acid>

Chromatogram

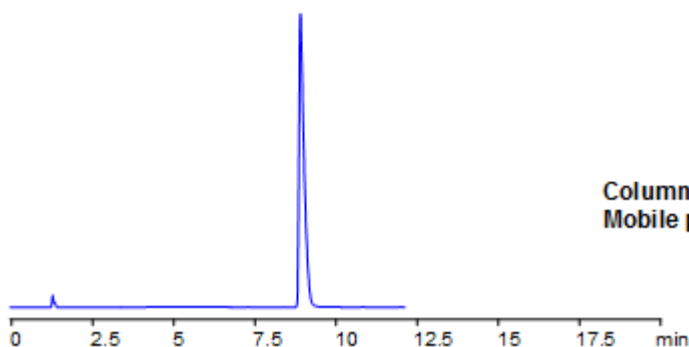
Size: 2.1 x 150 mm
Flow: 0.4 mL/min
Detection: UV 270 nm



Column: Obelisc R 5 μm
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 5 μm
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 3 μm
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

2-Naphthoxyacetic acid was included in a EURL (European Union Reference Laboratory) report for using QuEChERS (Quick, Easy, Cheap, Effective, Rugged and Safe) single residue methods. Primesep 100 & Obelisc R were used to separate 2-Naphthoxyacetic acid. Primesep 100 is a mixed-mode column which uses embedded ion-pairing groups and Obelisc can fine tune separations using both a long hydrophobic chain and ionic groups. Method is LC/MS compatible and can be used for many pesticides.

Method Parameters

Mobile Phase	Gradient MeCN – 10-70%, 15 min, 7 min hold
Buffer	Gradient AmAc pH 3.0- 20-60 mM, 15 min, 7 min hold
Flow Rate	0.4 ml/min
Detection	UV, 270 nm

Class of Compounds	Synthetic plant hormone, Acid, Hydrophobic, Ionizable
Analyzing Compounds	2-Naphthoxyacetic acid

HPLC Column Used

Primesep 100, 2.1×150 mm, 3 µm, 100A

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