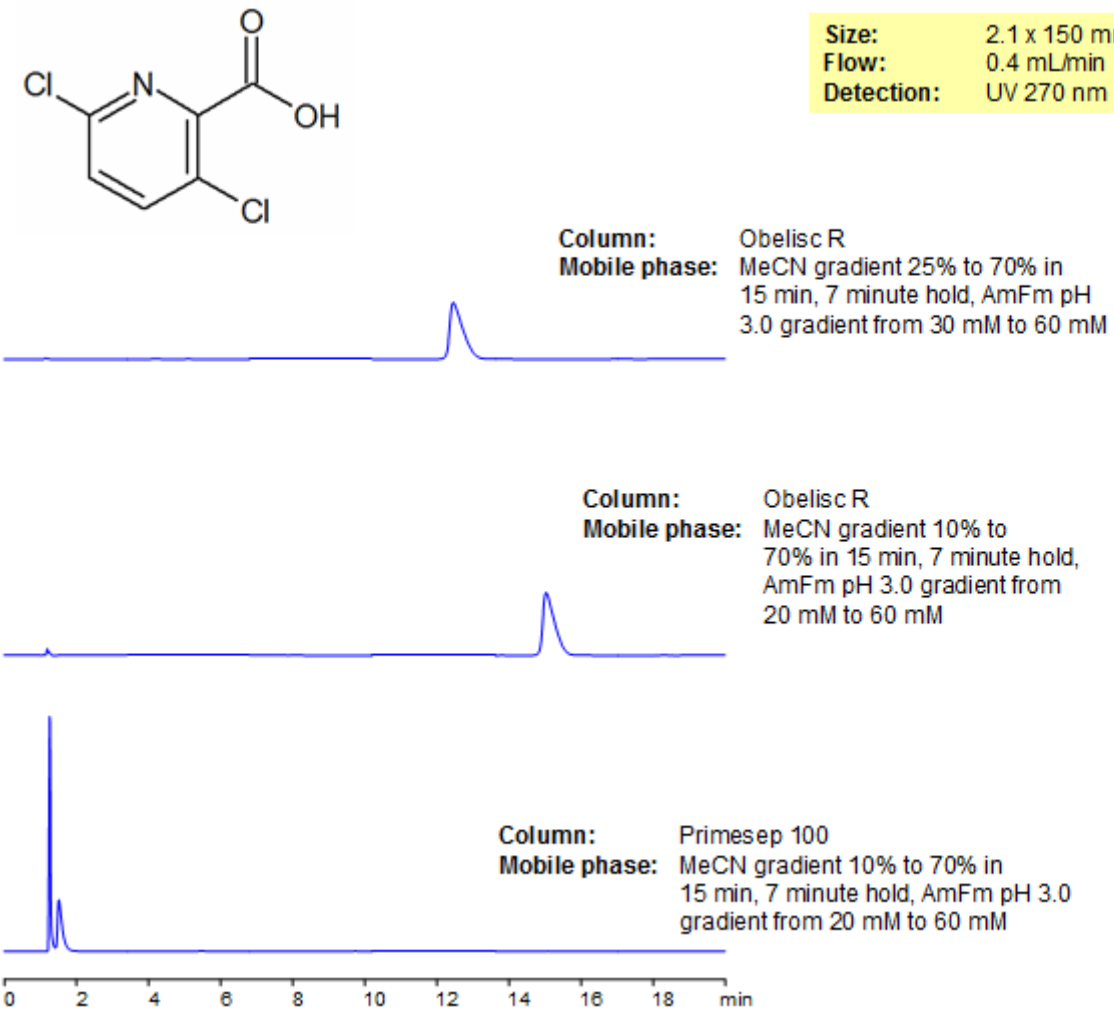
HPLC Analysis of Clopyralid

https://sielc.com/Application-HPLC-Analysis-of-Clopyralid

Chromatogram



Description

Clopyralid (3,6-dichloro-2-pyridinecarboxylic acid) is a selective herbicide effective against broad-leaf plants such as clovers and thistle. A single residue method for the EURL (European Union Reference Laboratory) was developed for clopyralid and other acidic compounds using QuEChERS (Quick, Easy, Cheap, Effective, Rugged, and Safe) methodology. Retention of clopyralid was controlled on both Obelisc R and a 3 micron Primesep 100 column of the same dimension. This method is LC/MS compatible and useful for separating 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	Insecticide, Herbicide, Fungicide, Hydrophobic, Ionizable

Analyzing Compounds	Clopyralid

HPLC Column Used

Primesep 100, 2.1×150 mm, 5 µm, 100A

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