Waters™

アプリケーションノート

Herbicides

Waters Corporation

This is an Application Brief and does not contain a detailed Experimental section.

Abstract

This application brief highlights the analysis of herbicides used in weed control.

Introduction

Compounds used in this study:

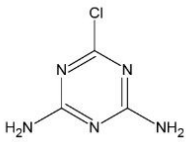
1. Atrazine-desethyl-desisopropyl

2. Picloram

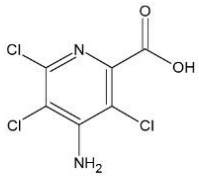
3. Chlorsulfuron (unknown impurity)

4. Atrazine

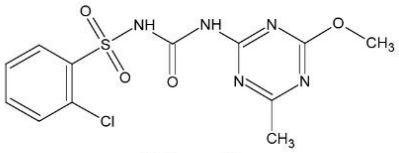
5. 2,4-D



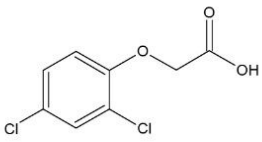
Atrazine-desethyl-desisopropyl



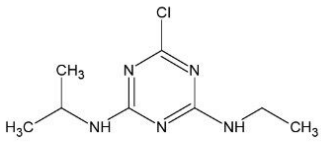
Picloram



Chlorsulfuron



(2,4-Dichlorophenoxy)acetic Acid



Atrazine

Experimental

Conditions

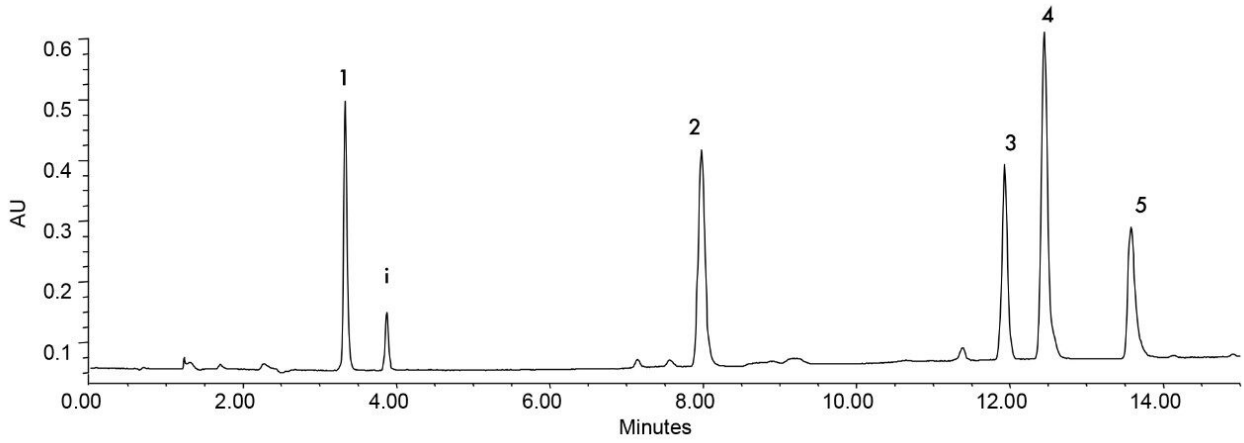
Column:	SunFire C_{18} 4.6 x 150 mm, 5 µm (p/n: 186002559)
Mobile phase A:	Water

Mobile phase B:	Acetonitrile
Mobile phase C:	100 mM $CH_3COO\text{-}NH_4$ + pH 4.5
Flow rate:	1 mL/min
Injection volume:	10 µL
Sample concentration:	4 µg/mL in water Chlorsulfuron 8 µg/mL (2,4-Dichlorophenoxy)acetic Acid 40 µg/Ml
Temperature:	30 °C
Detection:	UV @ 220 nm
Instrument:	Alliance 2695 with 2996 PDA

Gradient

Time (min)	Profile		
	%A	%B	%C
0.0	85	5	10
15.0	20	70	10

Results and Discussion



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