

Herbicides

Waters Corporation



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

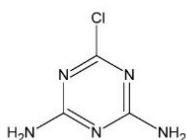
Abstract

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

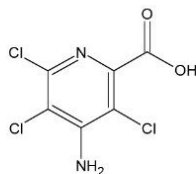
Introduction

Compounds used in this study:

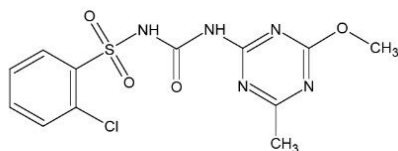
1. Atrazine-desethyl-desisopropyl
2. Picloram
3. Chlorsulfuron (unknown impurity)
4. Atrazine
5. 2,4-D



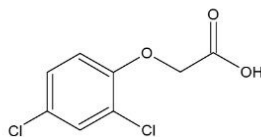
Atrazine-desethyl-desisopropyl



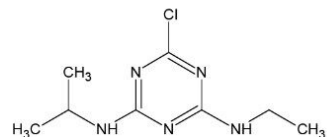
Picloram



Chlorsulfuron



(2,4-Dichlorophenoxy)acetic Acid



Atrazine

Experimental

Conditions

Column:

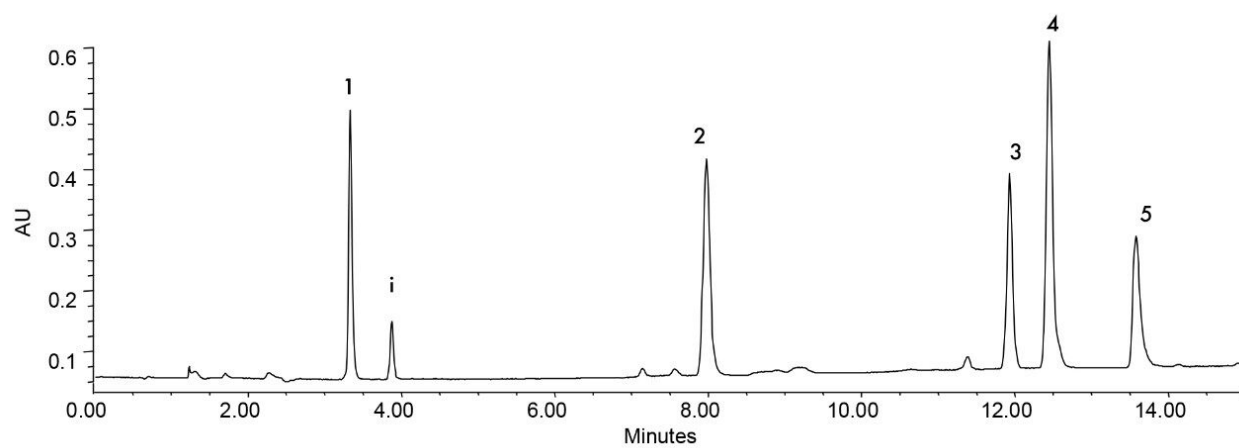
SunFire C₁₈ 4.6 x 150 mm, 5 µm (p/n: 186002559)

Mobile phase A:	Water
Mobile phase B:	Acetonitrile
Mobile phase C:	100 mM CH ₃ COO-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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Alliance HPLC <<https://www.waters.com/514248>>

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