

Benomyl and Bisphenol A

Waters Corporation



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

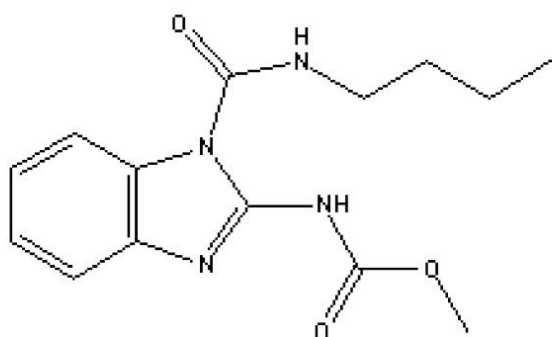
Abstract

This application brief demonstrates analysis of Benomyl and Bisphenol A.

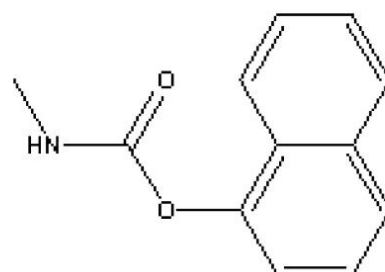
Introduction

The compounds used in this study are –

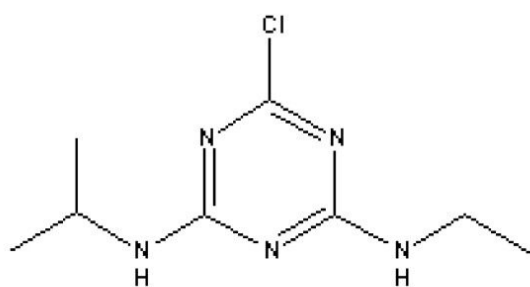
1. Benomyl
2. Carbaryl
3. Atrazine
4. Bisphenol A



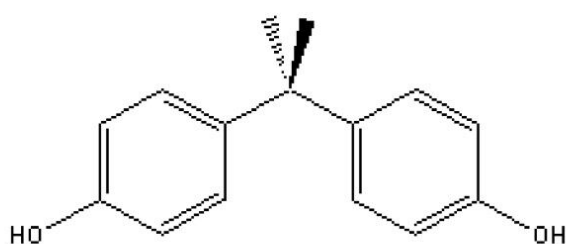
1. Benomyl



2. Carbaryl



3. Atrazine



4. Bisphenol A

Experimental

HPLC Method

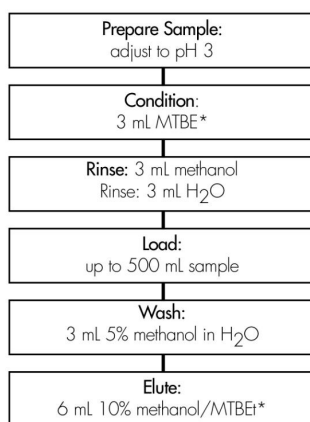
Column:	Symmetry C ₁₈ , 3.9 x 150 mm, 5 µm
Part number:	WAT046980
Mobile phase A:	10 mM phosphate, pH 6.8
Mobile phase B:	Methanol
Flow rate:	1.0 mL/min
Injection volume:	100 µL
Detection:	PDA (283 nm extracted)

Gradient

Time (min)	Profile	
	%A	%B
0	60	40
20	0	100

Oasis® SPE Method for Endocrine Disruptors

Conditions for Oasis® HLB Cartridge, 6 cc, 200 mg
Part Number WAT106202

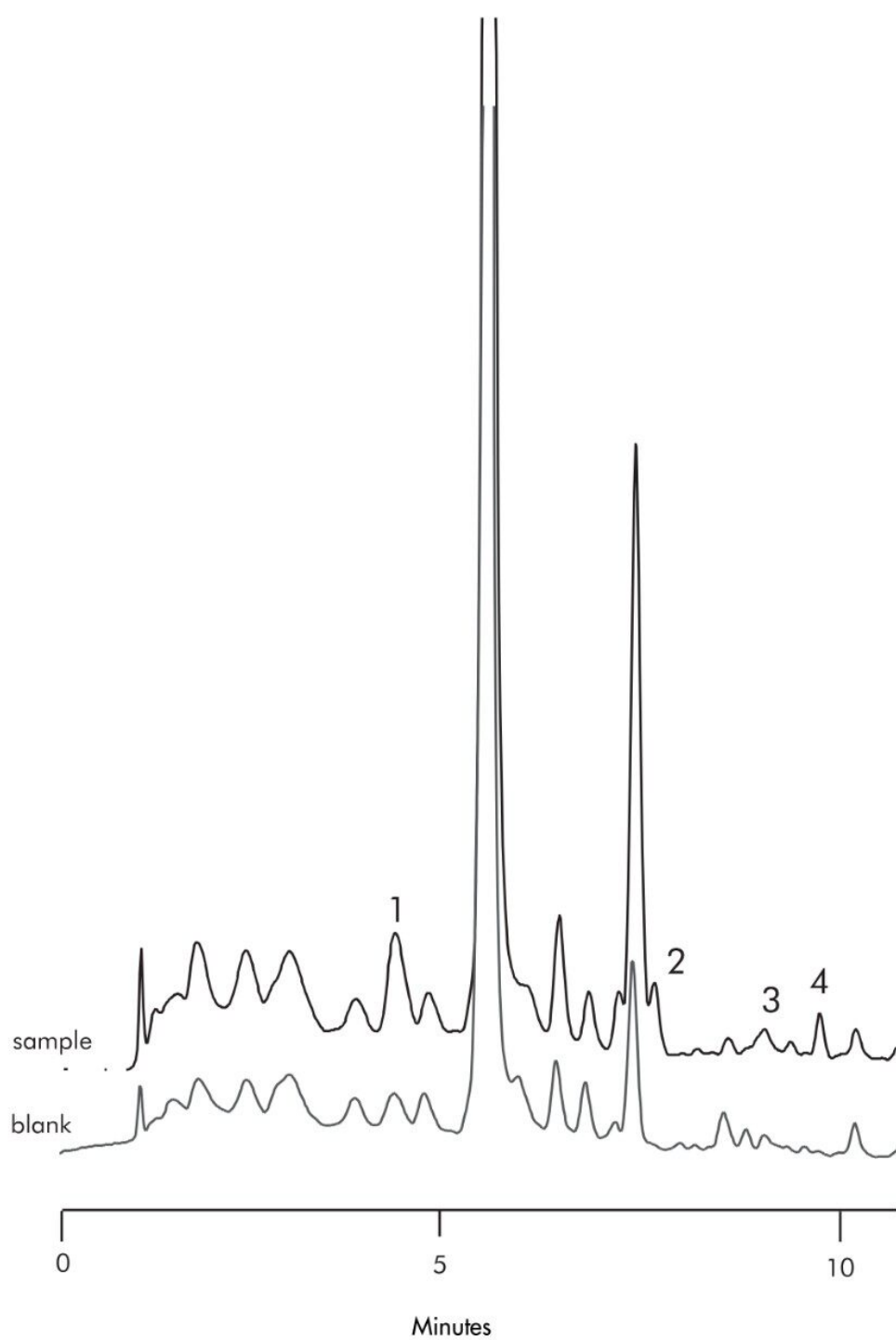


For GC analysis, dry
extract over Na₂SO₄,
then adjust to 1 mL

For LC analysis, exchange
to acetonitrile, then
adjust to 1 mL

* methyl tbutyl ether
diethyl ether can be used as an alternative to MTBE

Results and Discussion



Compounds	% Recovery $\pm$ % RSD
1. Benomyl	65 $\pm$ 10
2. Carbaryl	N/A
3. Atrazine	N/A
4. Bisphenol A	83 $\pm$ 2

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