Waters™

Nota de aplicación

Phenones Analysis by Two Phases

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

Abstract

Waters Corporation

This application brief demonstrates analysis of phenones.

Introduction

The compounds used in this study are -

- 1. Theophylline
- 2. 2-Acetylfuran
- 3. Acetanilide
- 4. Acetophenone
- 5. Propiophenone
- 6. Butyrophenone

- 7. Benzophenone
- 8. Valerophenone
- 9. Hexanophenone
- 10. Heptanophenone
- 11. Octanophenone

Theophylline

2-Acetylfuran

Acetanilide

Acetophenone

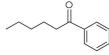
Propiophenone



Butyrophenone

Benzophenone





Valerophenone

Hexanophenone

Heptanophenone

Octanophenone

Experimental

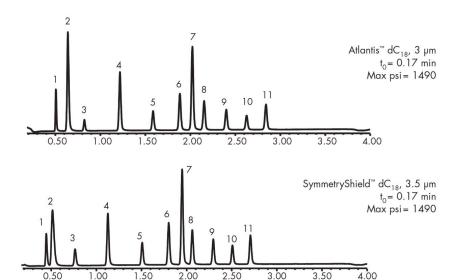
Conditions

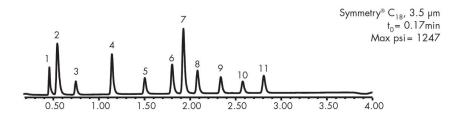
Column:	Atlantis dC ₁₈ , 4.6 x 20 mm IS, 3 μ m, (P/N: 186002062)		
	Symmetry Shield RP ₁₈ , 4.6 x 20 mm IS, 3.5 μ m, (P/N: 186002092)		
	Symmetry C_{18} , 4.6 x 20 mm IS, 3.5 μ m, (P/N: 186002090)		
	Xterra MS C_{18} , 4.6 x 20 mm IS, 3.5 μ m, (P/N: 186001891)		
Mobile phase A:	0.1% HCOOH in Water		
Mobile phase B:	0.1% HCOOH in Acetonitrile		
Mobile phase C:	1% HCOOH in Water		
Flow Rate:	3.0 mL/min		
Injection Volume:	10 µL		
Sample concentration:	20 μg/mL		
Temperature:	30 °C		
Detection:	UV @ 254 nm		
Instrument:	Alliance 2795 with 996 PDA		

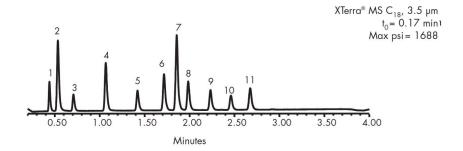
Gradient

Time	Profile			
(min)	%A	%B		
0.0	100	0		
4.0	0	100		

Results and Discussion







Featured Products

Alliance HPLC System https://www.waters.com/534293

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