

Phenones Analysis by Three Phases

Waters Corporation

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

Abstract

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
-

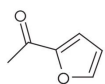
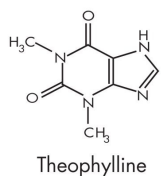
7. Benzophenone

8. Valerophenone

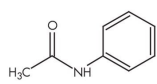
9. Hexanophenone

10. Heptanophenone

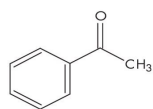
11. Octanophenone



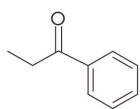
2-Acetylfuran



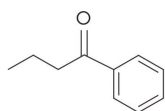
Acetanilide



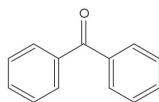
Acetophenone



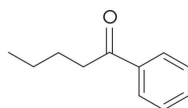
Propiophenone



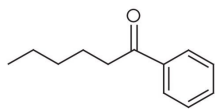
Butyrophenone



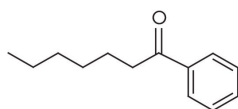
Benzophenone



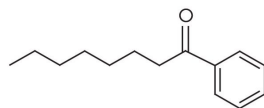
Valerophenone



Hexanophenone



Heptanophenone



Octanophenone

Experimental

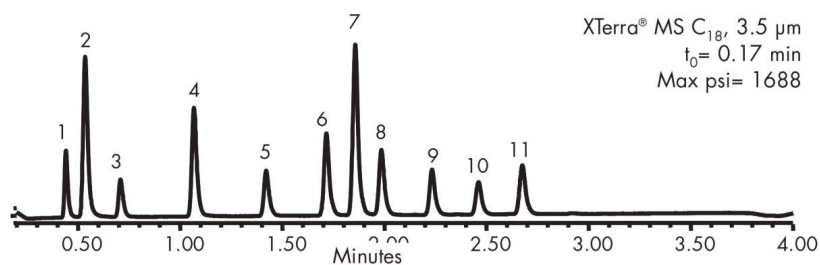
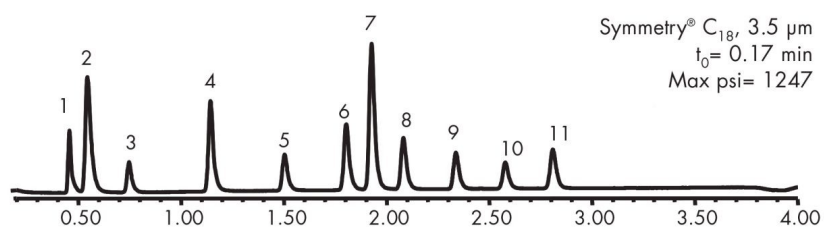
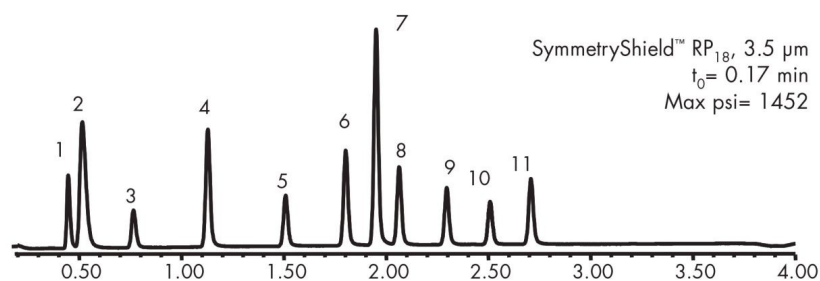
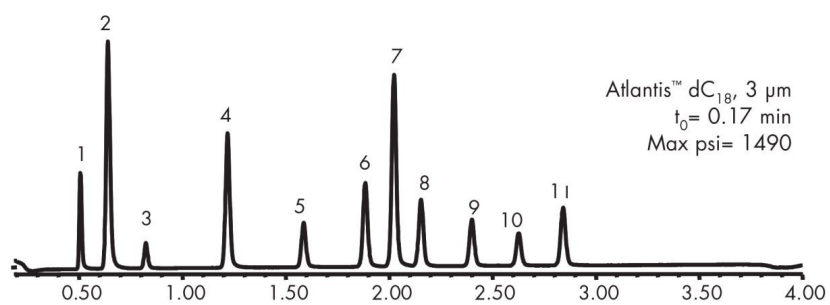
Conditions

Column:	Atlantis dC ₁₈ , 2.1 x 20 mm IS, 3 μm, (P/N: 186002058) Symmetry Shield RP ₁₈ , 2.1 x 20 mm IS, 3.5 μm, (P/N: 186002068) Symmetry C ₁₈ , 2.1 x 20 mm IS, 3.5 μm, (P/N: 186002066) Xterra MS C ₁₈ , 2.1 x 20 mm IS, 3.5 μm, (P/N: 186001923)
Mobile phase A:	0.1% HCOOH in Water
Mobile phase B:	0.1% HCOOH in Acetonitrile
Flow Rate:	0.6 mL/min
Injection Volume:	5 μL
Sample concentration:	20 μg/mL
Temperature:	30 °C
Detection:	UV @ 254 nm
Instrument:	Alliance 2795 with 996 PDA

Gradient

Time (min)	Profile	
	%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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