Waters™

應用手冊

Phenones Analysis by Three Phases

Waters Corporation

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

Abstract

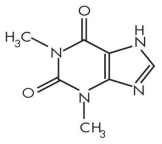
This application brief demonstrates analysis of phenones.

Introduction

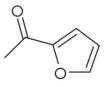
The compounds used in this study are –

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

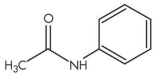
7. Benzophenone
8. Valerophenone
9. Hexanophenone
10. Heptanophenone
11. Octanophenone



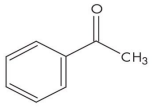
Theophylline



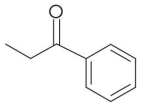
2-Acetylfuran



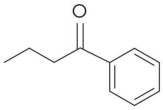
Acetanilide



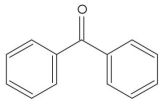
Acetophenone



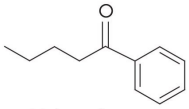
Propiophenone



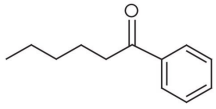
Butyrophenone



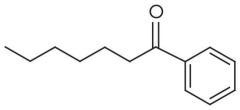
Benzophenone



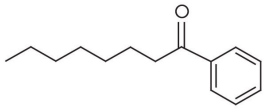
Valerophenone



Hexanophenone



Heptanophenone



Octanophenone

Experimental

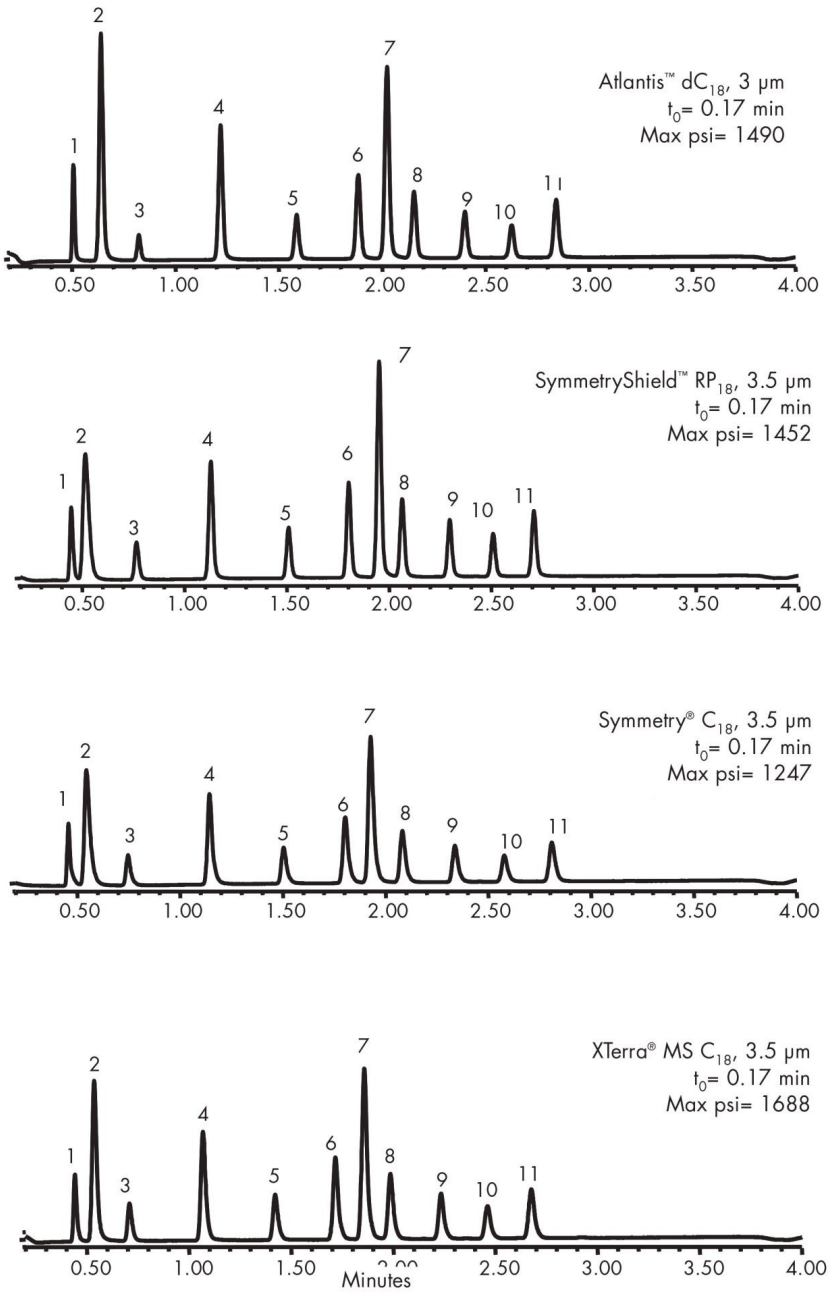
Conditions

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



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

WA31787.22, June 2003