Waters™

응용 자료

# Phenones Analysis by Two Phases

Waters Corporation

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

## Abstract

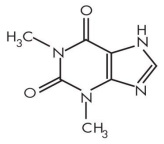
This application brief demonstrates anaylsis of phenones.

## Introduction

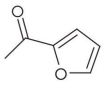
The compounds used in this study are –

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

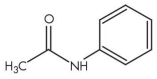
7. Benzophenone
8. Valerophenone
9. Hexanophenone
10. Heptanophenone
11. Octanophenone



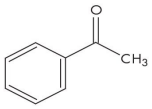
Theophylline



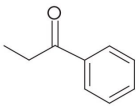
2-Acetylfuran



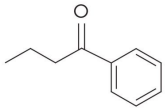
Acetanilide



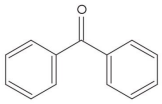
Acetophenone



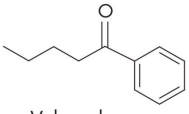
Propiophenone



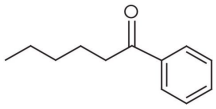
Butyrophenone



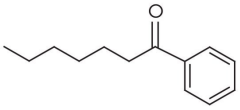
Benzophenone



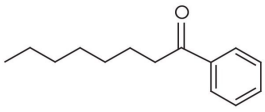
Valerophenone



Hexanophenone



Heptanophenone



Octanophenone

## Experimental

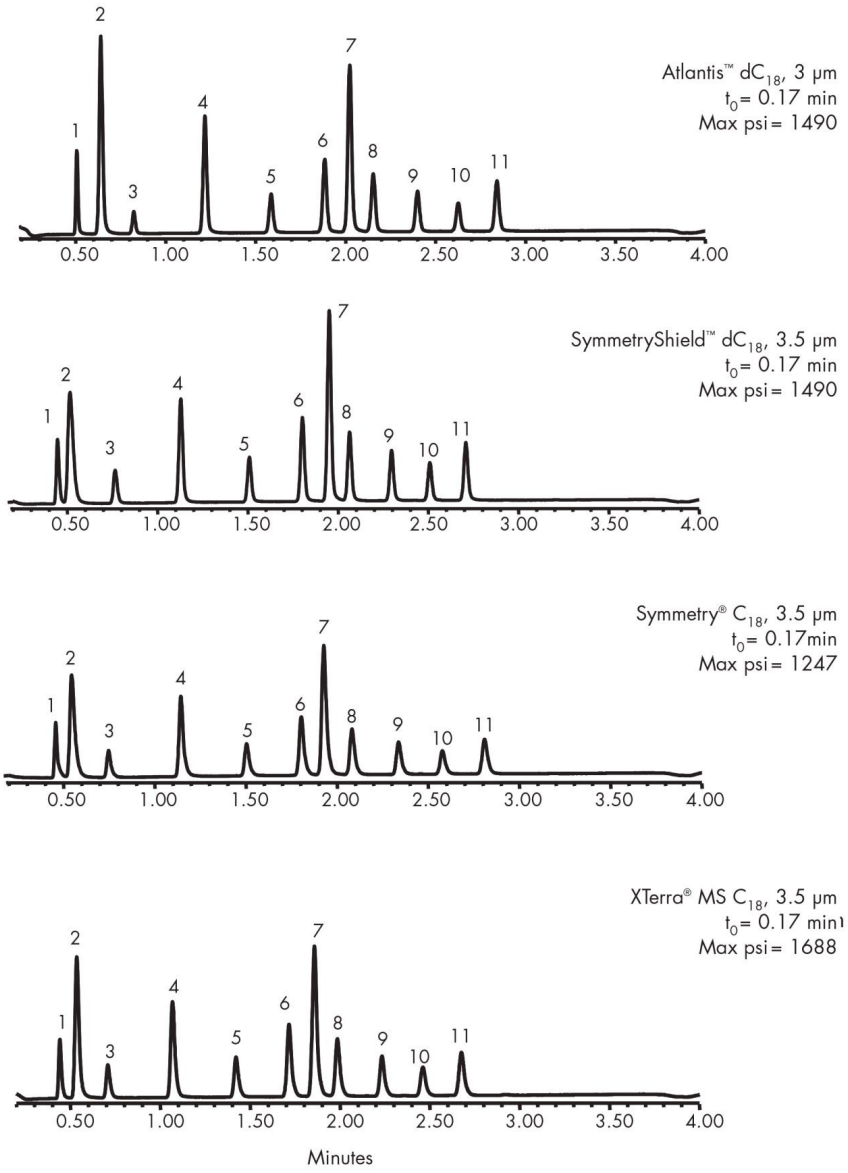
### Conditions

| | |
|---|---|
| Column: | Atlantis $dC_{18}$, 4.6 x 20 mm IS, 3 µm, (P/N: 186002062)<br>Symmetry Shield $RP_{18}$, 4.6 x 20 mm IS, 3.5 µm, (P/N: 186002092)<br>Symmetry $C_{18}$, 4.6 x 20 mm IS, 3.5 µm, (P/N: 186002090)<br>Xterra MS $C_{18}$, 4.6 x 20 mm IS, 3.5 µm, (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 (min) | Profile | |
|---|---|---|
| | %A | %B |
| 0.0 | 100 | 0 |
| 4.0 | 0 | 100 |

## Results and Discussion

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WA31787.21, June 2003