Waters™

Nota applicativa

Speed Mix - 2.1 x 20 mm Intelligent Speed Separation

Waters Corporation

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

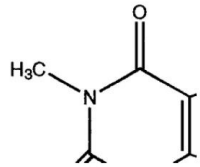
Abstract

This application brief demonstrates analysis of speed mix using 2.1 x 20 mm Intelligent Speed Separation Column.

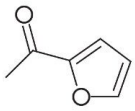
Introduction

The compounds used in this study are –

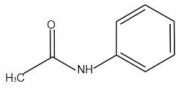
1. Theophylline
2. 2-Acetylfuran
3. Acetanilide
4. Acetophenone
5. Propiophenone
6. Butyrophenone
7. Benzophenone
8. Valerophenone
9. Hexanophenone
10. Heptanophenone
11. Octanophenone



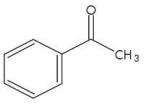
1. Theophylline



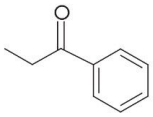
2. 2-Acetylfuran



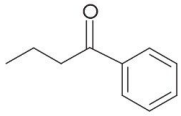
3. Acetanilide



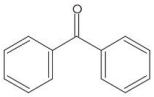
4. Aceophenone



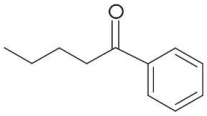
5. Propiophenone



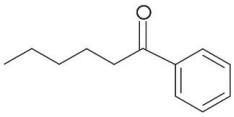
6. Butyrophenone



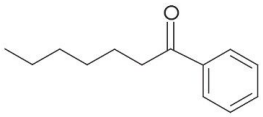
7. Benzophenone



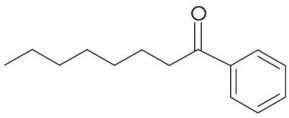
8. Valerophenone



9. Hexanophenone



10. Heptanophenone



11. Octanophenone

Experimental

HPLC Method

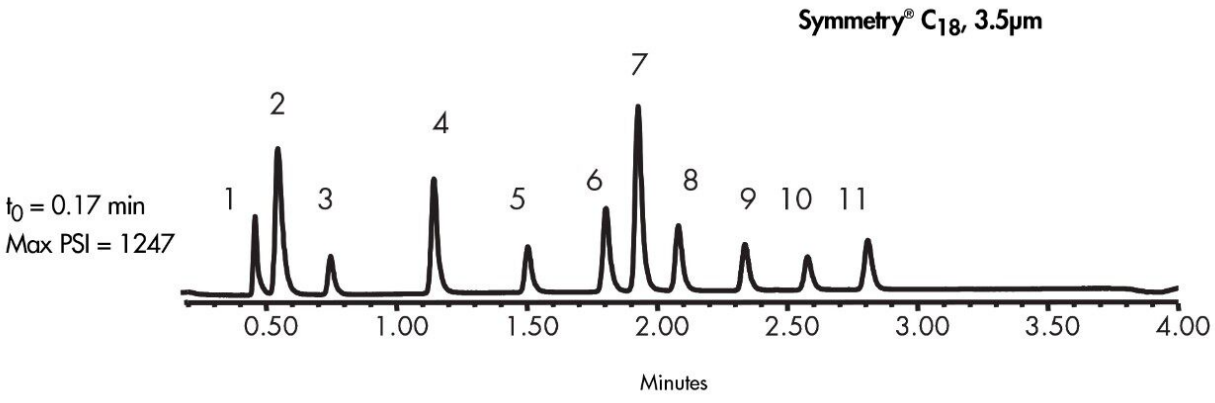
Column:	Symmetry C_{18}, 2.1 x 20 mm, 3.5 µm IS Symmetry Shield RP_{18}, 4.6 x 20 mm, 3.5 µm IS
Part numbers:	Symmetry - 186002066 Symmetry Shield - 186002068
Mobile phase A:	0.1% HCOOH in Water

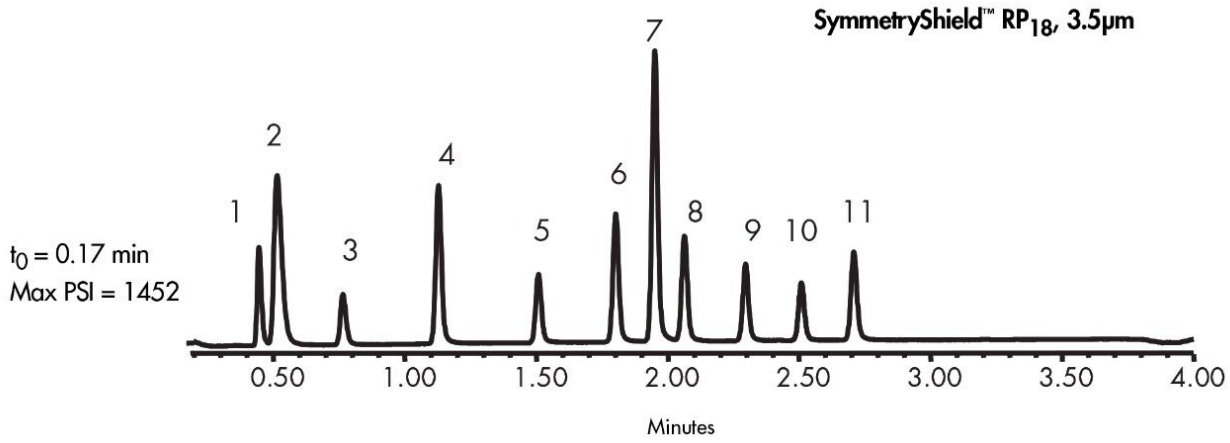
Mobile phase B:	0.1% HCOOH in ACN
Flow rate:	0.6 mL/min
Injection volume:	5 µL
Temperature:	30 °C
Detection:	UV @ 254 nm

Gradient

Time (min)	Profile	
	%A	%B
0	100	0
4	0	100

Results and Discussion





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