

Speed Mix - 4.6 x 20 mm Intelligent Speed Separation

Waters Corporation



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

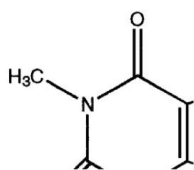
Abstract

This application brief demonstrates analysis of speed mix using 4.6 x 20 mm Intelligent Speed Separation Column.

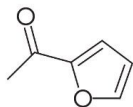
Introduction

The compounds used in this study are –

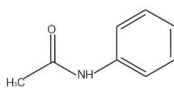
1. Theophylline
2. 2-Acetylfuran
3. Acetanilide
4. Acetophenone
5. Propiophenone
6. Butyrophenone
7. Benzophenone
8. Valerophenone
9. Hexanophenone
10. Heptanophenone
11. Octanophenone



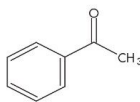
1. Theophylline



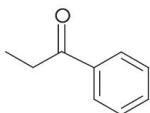
2. 2-Acetylfuran



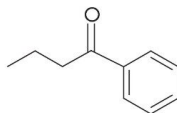
3. Acetanilide



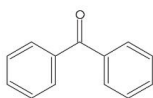
4. Aceophenone



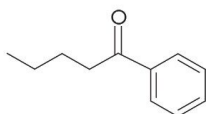
5. Propiophenone



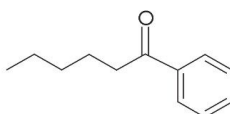
6. Butyrophenone



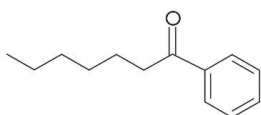
7. Benzophenone



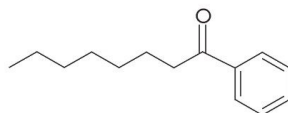
8. Valerophenone



9. Hexanophenone



10. Heptanophenone



11. Octanophenone

Experimental

HPLC Method

Column:

Symmetry C₁₈, 4.6 x 20 mm, 3.5 μm IS

Symmetry Shield RP₁₈, 4.6 x 20 mm, 3.5 μm IS

Part numbers:

Symmetry - 186002090

Symmetry Shield - 186002092

Mobile phase A:

0.1% HCOOH in Water

Mobile phase B: 0.1% HCOOH in ACN

Flow rate: 3.0 mL/min

Injection volume: 10 μ L

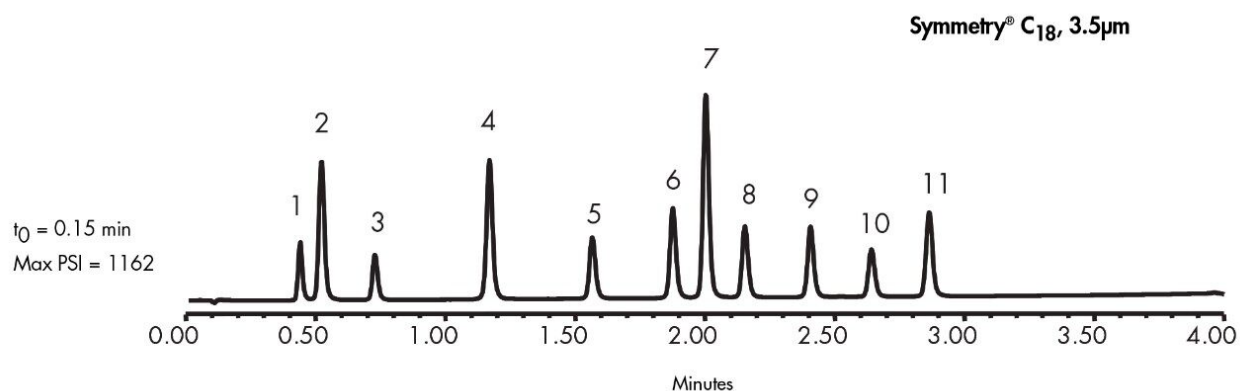
Temperature: 30 $^{\circ}$ C

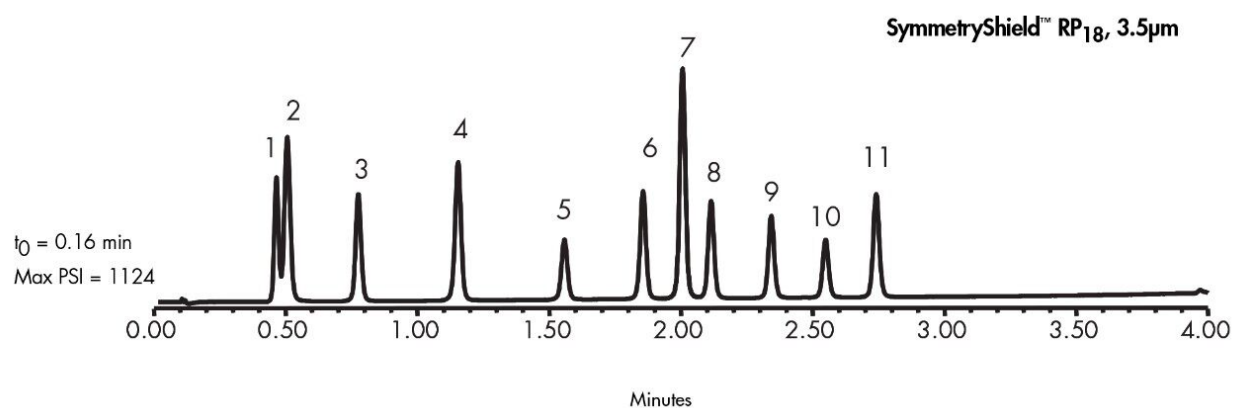
Detection: UV @ 254 nm

Gradient

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

Results and Discussion





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WA31763.148, June 2003