Waters™

应用纪要

Anilines, pH 10.0 – 3.0 x 20 mm Intelligent Speed Separation

Waters Corporation

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

Abstract

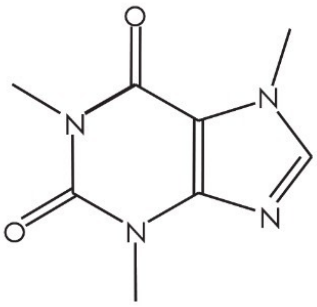
This application brief demonstrates analysis of anilines using XTerra Columns.

Introduction

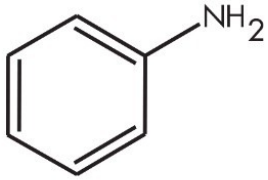
The compounds analyzed in this study are:

1. Caffeine
2. Aniline
3. N-Methylaniline
4. 2-Ethylaniline
5. 4-Nitroanisole

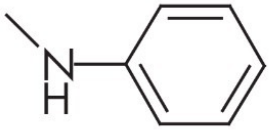
6. N,N-Dimethylaniline



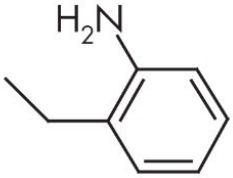
Caffeine



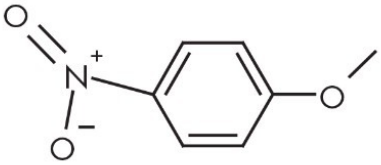
Aniline



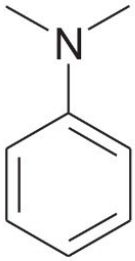
N-Methylaniline



2-Ethylaniline



4-Nitroanisole



N,N-Dimethylaniline

Experimental

Conditions

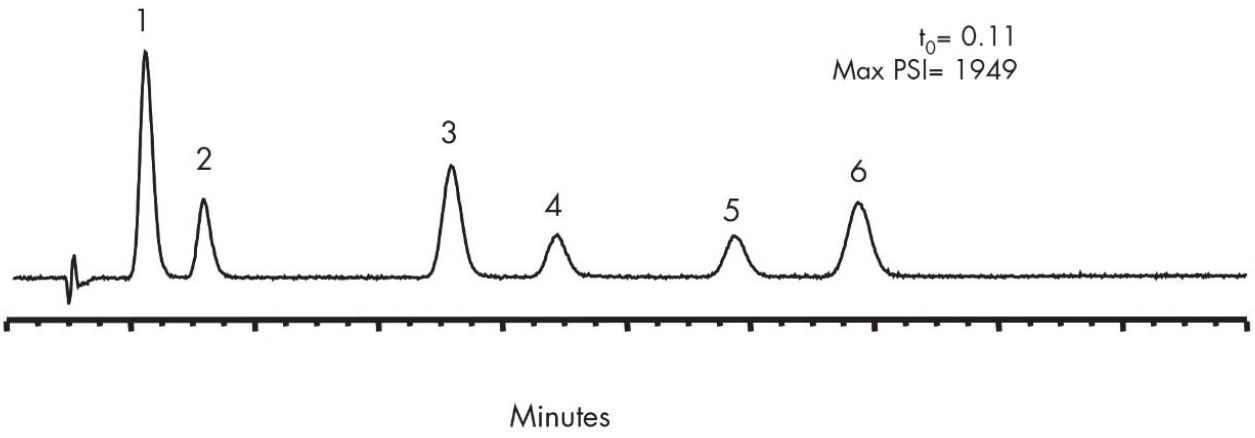
Column:	XTerra MS C_{18}, 3.0 x 20 mm IS, 3.5 µm, (P/N: 186001974)
Mobile phase A:	Water

Mobile phase B:	Acetonitrile
Mobile phase C:	100 mM NH_4HCO_3, pH 10
Flow rate:	2.0 mL/min
Injection volume:	5.0 µL
Sample concentration:	20 µg/mL
Temperature:	30 °C
Detection:	UV @ 254 nm
Instrument:	Alliance 2695 with 2996 PDA

Gradient

Time (min)	Profile		
	%A	%B	%C
0.0	80	10	10
2.0	50	40	10
2.2	80	10	10
3.0	80	10	10

Results and Discussion



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