Waters™

應用手冊

Anilines, pH 10.0 – 4.6 x 20 mm Intelligent Speed Separation

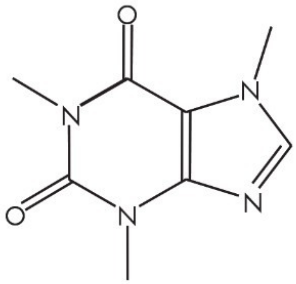
Waters Corporation

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

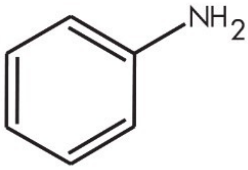
Abstract

This application brief demonstrates analysis of anilines using XTerra Columns.

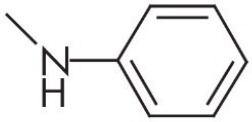
Introduction



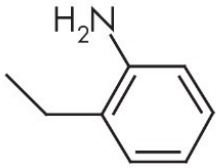
Caffeine



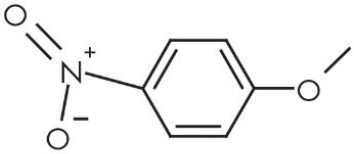
Aniline



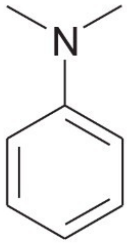
N-Methylaniline



2-Ethylaniline



4-Nitroanisole



N,N-Dimethylaniline

Experimental

Conditions

Column:	XTerra MS C_{18}, 4.6 x 20 mm IS, 3.5 µm, (P/N: 186001891)
Mobile phase A:	Water
Mobile phase B:	Acetonitrile
Mobile phase C:	100 mM NH_4HCO_3, pH 10

Flow rate:	3.0 mL/min
Injection volume:	10 µL
Sample concentration:	20 µg/mL
Temperature:	Ambient
Detection:	UV @ 254 nm
Instrument:	Alliance 2795 with 996 PDA

Gradient

Time(min)	Profile
	%A
0.0	90
4.0	60

Results and Discussion

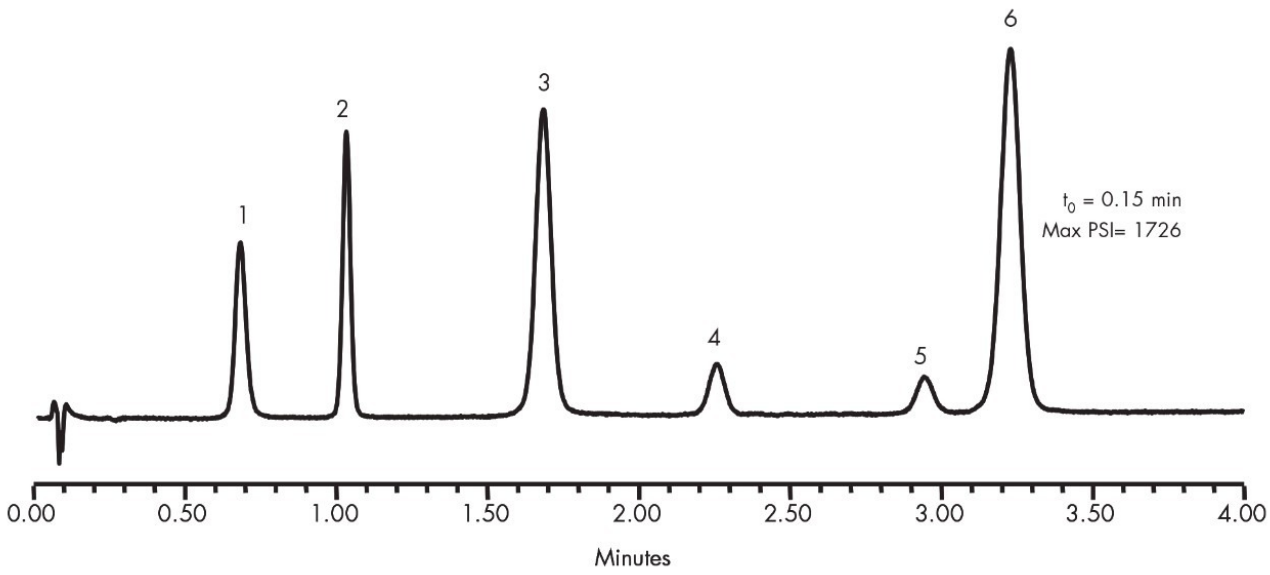
The compounds analyzed in this study are:

1. Caffeine
2. Aniline
3. N-Methylaniline

4. 2-Ethylaniline

5. 4-Nitroanisole

6. N,N-Dimethylaniline



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