

Anilines - 4.0 Min Gradient

Waters Corporation



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

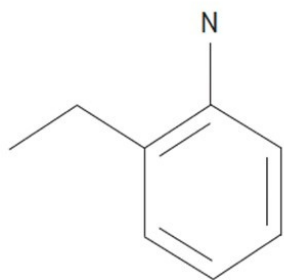
Abstract

This application brief demonstrates analysis of anilines.

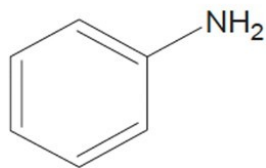
Introduction

The compounds used in this study are –

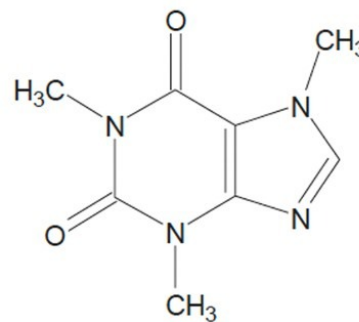
1. Caffeine
2. Aniline
3. N-Methylaniline
4. 2-Ethylaniline
5. 4-Nitroanisole
6. N,N-Dimethylaniline



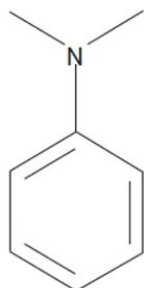
2-Ethylaniline



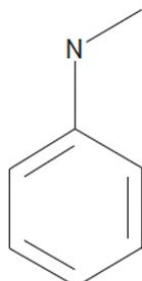
Aniline



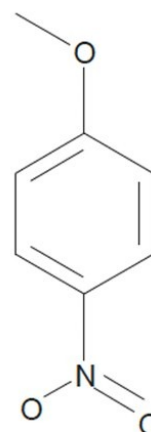
Caffeine



N,N-Dimethylaniline



N-Methylaniline



4-Nitroanisole

Experimental

Conditions

Column:	Xterra MS C ₁₈ 4.6 x 20 mm, 3.5 μm
Part number:	186001891
Mobile phase A:	H ₂ O

Mobile phase B: ACN

Mobile phase C: 100 mM NH_4HCO_3 , pH 10.0

Flow rate: 3.0 mL/min

Injection volume: 5.0 μL

Sample concentration: 20 $\mu\text{g/mL}$

Temperature: 30 °C

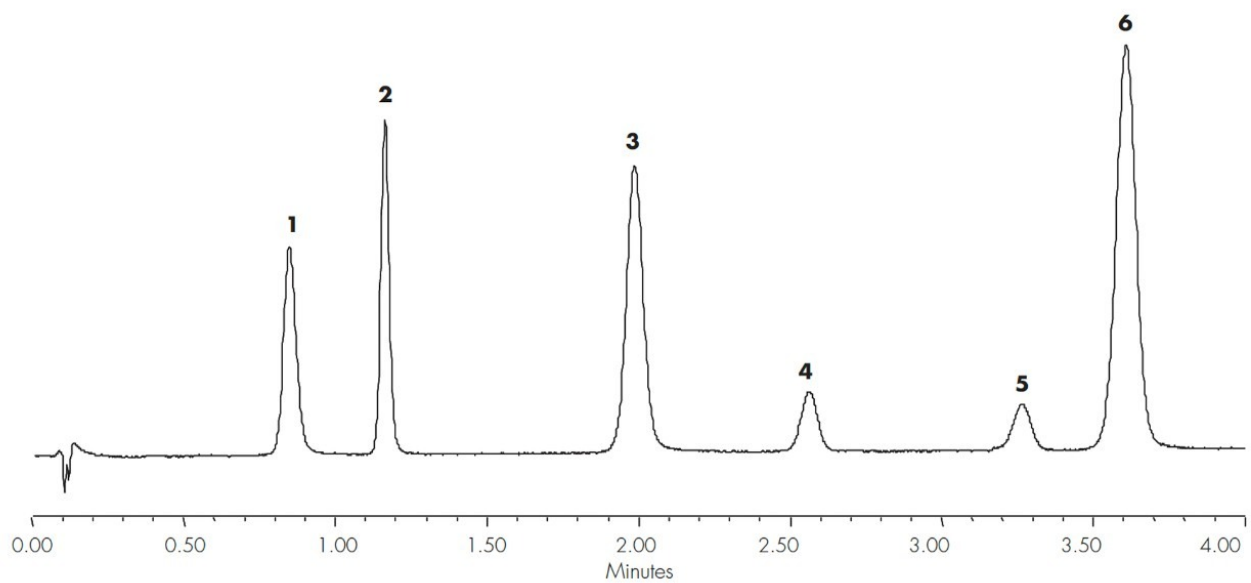
Detection: UV @ 254 nm

Instrument: Alliance HT 2795, 2996 PDA

Gradient

Time (min)	Profile		
	%A	%B	%C
0.0	80	10	10
4.0	50	40	10

Results and Discussion



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