

## Anilines - 2.0 Min Gradient

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Waters Corporation



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

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### Abstract

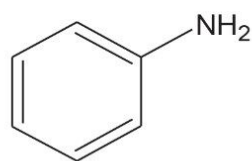
This application brief demonstrates analysis of anilines.

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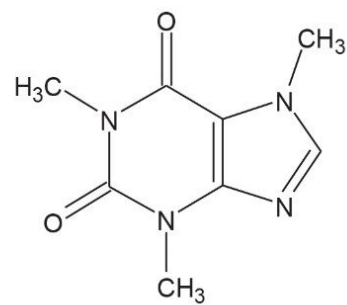
## Introduction

The compounds used in this study are –

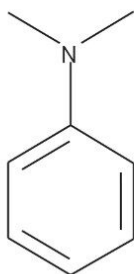
1. Caffeine
2. Aniline
3. N-Methylaniline
4. 4-Nitroanisole
5. N,N-Dimethylaniline



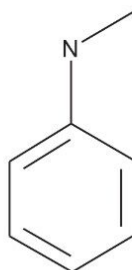
Aniline



Caffeine



N,N-Dimethylaniline



N-Methylaniline



4-Nitroanisole

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## Experimental

### Conditions

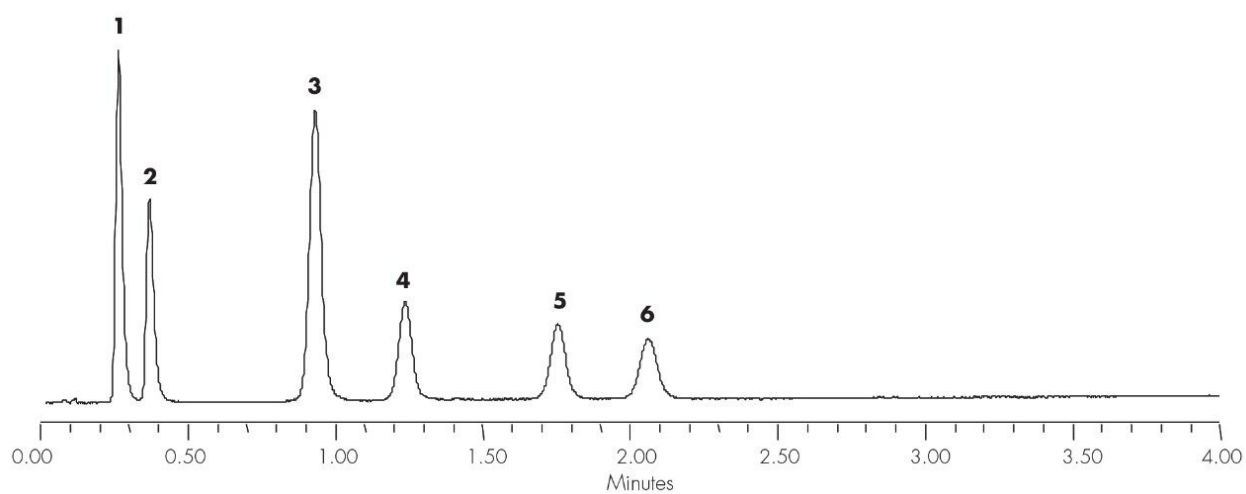
|                       |                                                   |
|-----------------------|---------------------------------------------------|
| Column:               | Xterra MS C <sub>18</sub> 4.6 x 20 mm, 3.5 µm     |
| Part number:          | 186001891                                         |
| Mobile phase A:       | H <sub>2</sub> O                                  |
| Mobile phase B:       | ACN                                               |
| Mobile phase C:       | 100 mM NH <sub>4</sub> HCO <sub>3</sub> , pH 10.0 |
| Flow rate:            | 3.0 mL/min                                        |
| Injection volume:     | 5.0 µL                                            |
| Sample concentration: | 20 µg/mL                                          |
| Temperature:          | 30 °C                                             |
| Detection:            | UV @ 254 nm                                       |
| Instrument:           | Alliance 2795, 2996 PDA                           |

## Gradient

| Time<br>(min) | Profile |    |    |
|---------------|---------|----|----|
|               | %A      | %B | %C |
| 0.0           | 80      | 10 | 10 |
| 2.0           | 50      | 40 | 10 |

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## Results and Discussion



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## Featured Products

Alliance HPLC System <<https://www.waters.com/534293>>

