

## Ibuprofen

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Waters Corporation



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

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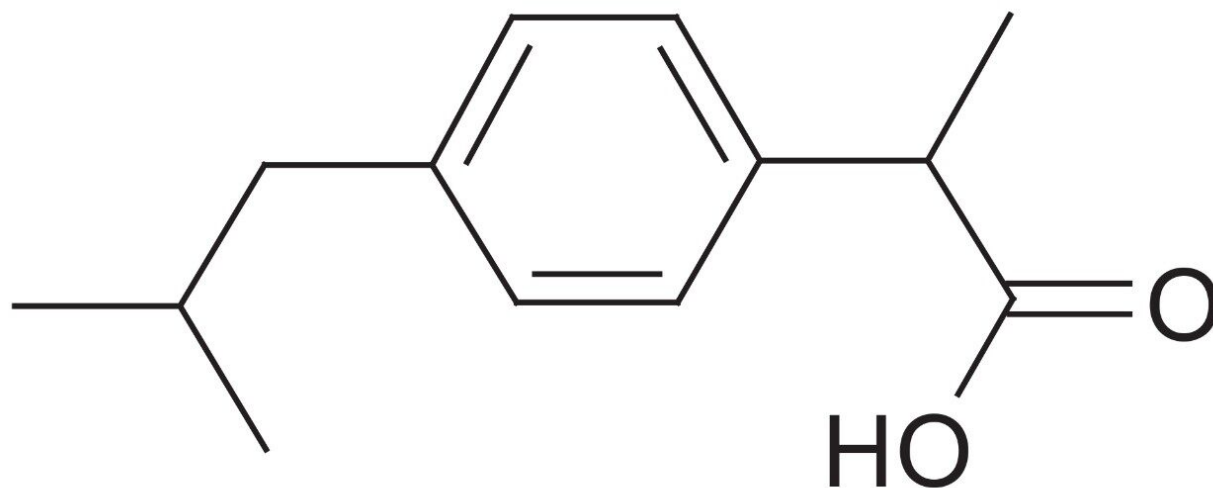
### Abstract

This application brief highlights the analysis of ibuprofen using XTerra Columns.

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## Introduction

The compound analyzed in this study is ibuprofen.



# Ibuprofen

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## Experimental

### Conditions

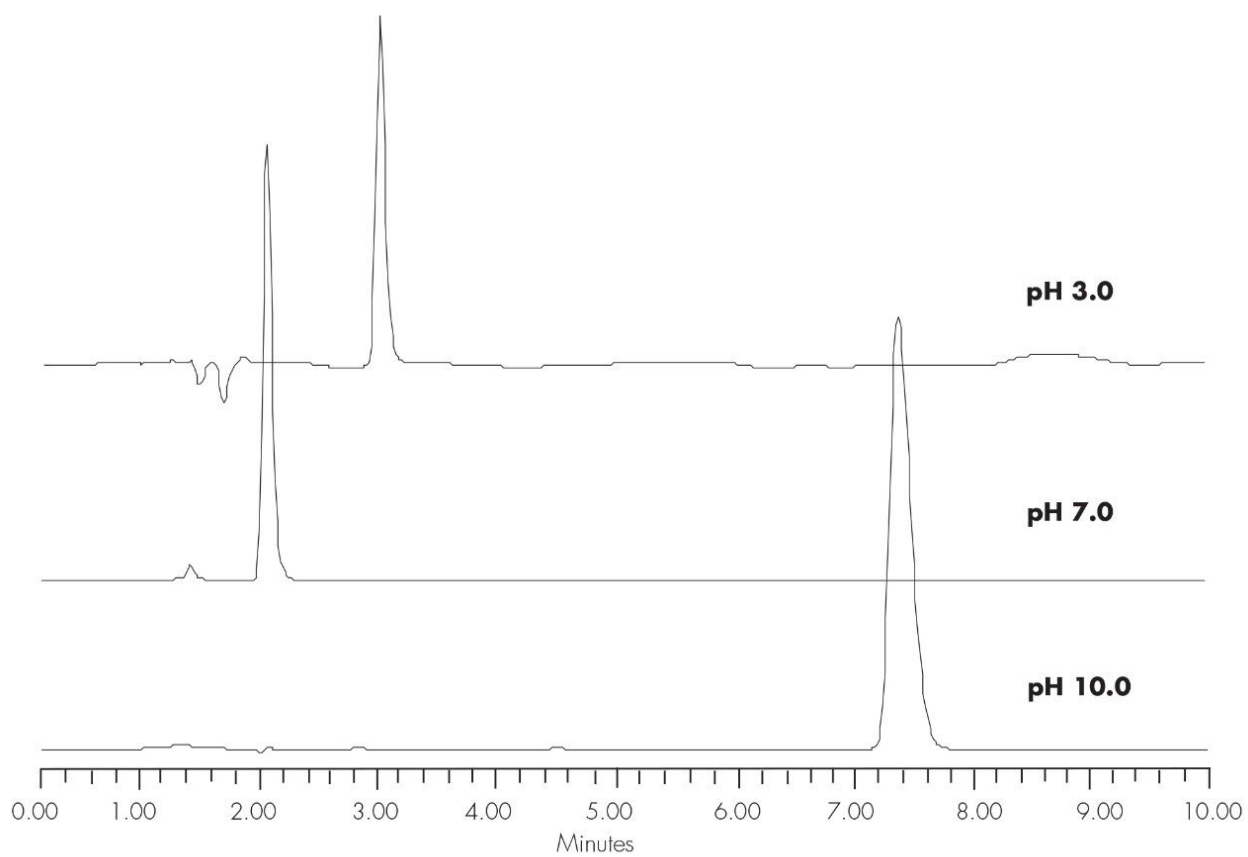
|               |   |
|---------------|---|
| Column:       | XTerra RP <sub>18</sub> 4.6 x 150 mm, 5 μm  |
| Part number:  | 186000492   |
| Mobile phase: | pH 3.0: H <sub>2</sub> O/ACN/100 mM NH <sub>4</sub> COOH, pH 3.0<br>20:70:10<br>pH 7.0: H <sub>2</sub> O/ACN/100 mM NH <sub>4</sub> HCO <sub>3</sub> , pH 7.0<br>50:40:10 |

pH 10.0 H<sub>2</sub>O/ACN/100 mM NH<sub>4</sub>HCO<sub>3</sub>, pH 10.0  
67:23:10

|                   |                         |
|-------------------|-------------------------|
| Flow rate:        | 1.0 mL/min              |
| Injection volume: | 5 µL of 250 µg/mL       |
| Temperature:      | 30 °C                   |
| Detection:        | UV @ 228 nm             |
| Instrument:       | Alliance 2695, 2996 PDA |
| Mobile Phase pH   | USP Tailing             |
| 3.0               | 1.17                    |
| 7.0               | 1.25                    |
| 10.0              | 1.39                    |

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## Results and Discussion



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## Featured Products

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

2998 Photodiode Array (PDA) Detector <<https://www.waters.com/1001362>>

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