

## Ibuprofen

---

Waters Corporation



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

---

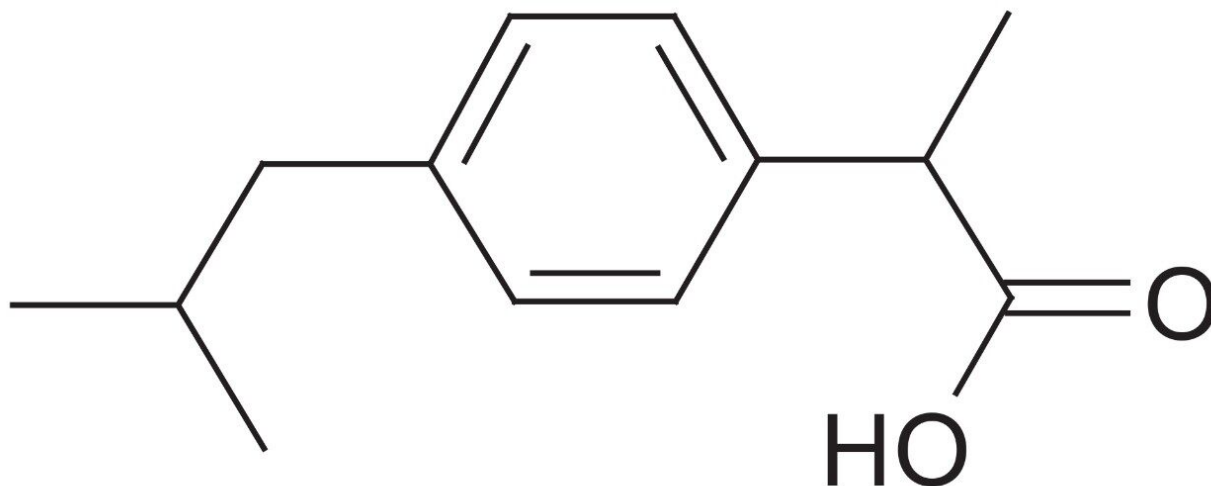
### Abstract

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

---

## Introduction

The compound analyzed in this study is ibuprofen.



# Ibuprofen

---

## 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 20:70:10

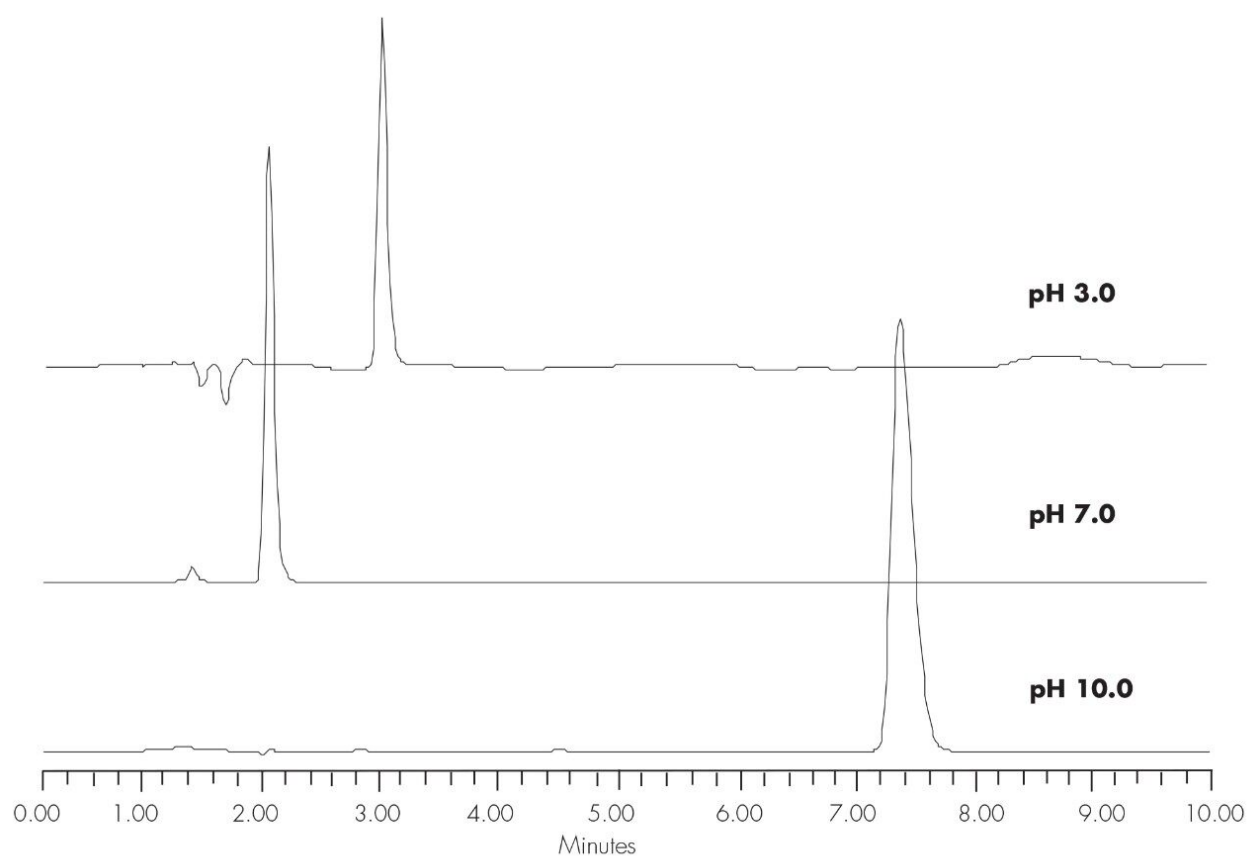
pH 7.0: H<sub>2</sub>O/ACN/100 mM NH<sub>4</sub>HCO<sub>3</sub>, pH 7.0  
50:40:10

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

---

## Results and Discussion



---

## Featured Products

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

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

WA20738.062, June 2002

© 2021 Waters Corporation. All Rights Reserved.