

Application Note

## Analysis of Tricyclic Antidepressants Using XBridge C<sub>18</sub>, pH 7.0

---

Waters Corporation



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

---

### Abstract

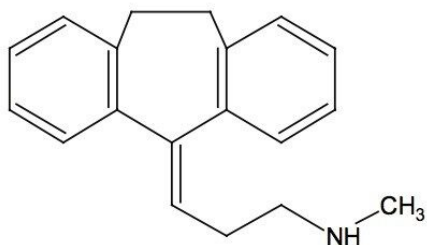
This application brief highlights the analysis of tricyclic antidepressants using XBridge C<sub>18</sub> Columns at pH 7.0.

---

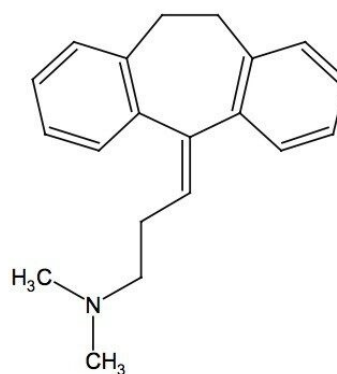
## Introduction

Tricyclic antidepressants are analyzed in this application brief.

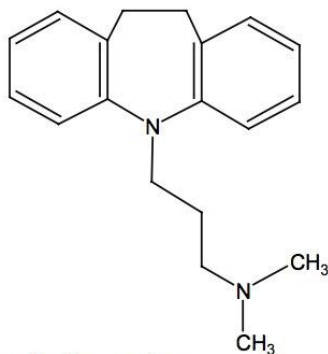
## Compounds



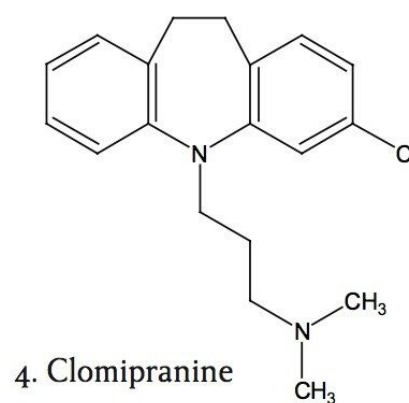
1. Nortriptyline



3. Amitriptyline



2. Imipramine



4. Clomipranine

---

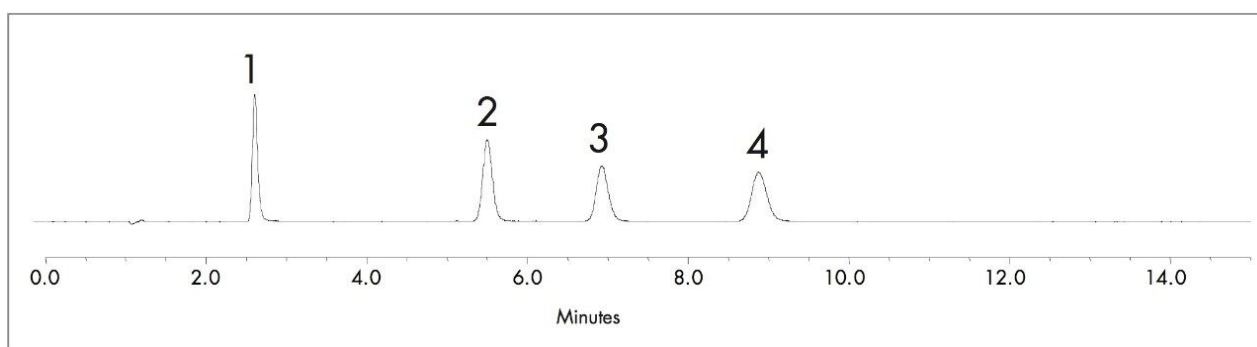
## Experimental

## Test Conditions

|                         |  |
|-------------------------|--|
| Column:                 | XBridge C <sub>18</sub> , 5 μm, 4.6 x 150 mm p/n: 186003116            |
| Isocratic Mobile Phase: | 20 mM sodium phosphate buffer, pH 7.0/acetonitrile/methanol (30:35:35) |
| Flow Rate:              | 1.5 mL/min   |
| Injection Volume:       | 10 μL  |
| Sample Concentration:   | 20 μg/mL in water  |
| Temperature:            | 25 °C  |
| Detection:              | UV @ 254 nm  |
| Instrument:             | Alliance 2695 with 2996 PDA  |

---

## Results and Discussion



---

## Featured Products

Alliance HPLC <<https://www.waters.com/514248>>

WA60167, April 2007

© 2021 Waters Corporation. All Rights Reserved.