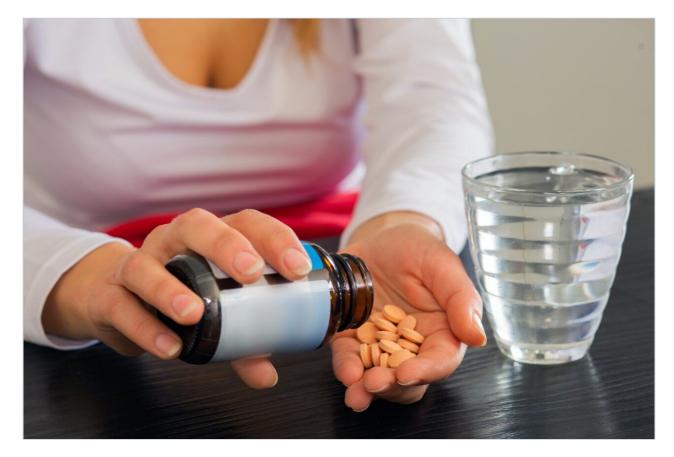
# Waters™

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# **CNS** Depressants

Waters Corporation



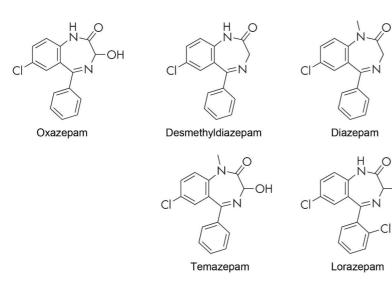
This is an Application Brief and does not contain a detailed Experimental section.

## Abstract

This application brief highlights the analysis of CNS depressants.

## Introduction

Compounds studied in this application brief are shown below.



# Experimental

#### Compounds

Column:	SunFire C <sub>18</sub> 4.6 x 150 mm, 5.0 µm (p/n: 186002559)
Mobile phase A:	Water
Mobile phase B:	Acetonitrile
Mobile phase C:	2% CH <sub>3</sub> COOH in water
Flow rate:	1 mL/min

OH

Injection volume:	10 µL
Isocratic Mobile Phase Conditions:	55% A, 35% B, 10% C
Sample concentration:	10 µg/mL in water
Temperature:	30 °C
Detection:	UV @ 254 nm
Instrument:	Alliance 2695 with 2996 PDA

Compounds	USP tailing
1. Oxazepam	1.08
2. Lorazepam	1.06
3. Desmethyldiazepam	1.05
4. Temazepam	1.07
5. Diazepam (Valium)	1.04

### Compounds

Column:	SunFire C <sub>8</sub> 4.6 x 150 mm, 5.0 µm (p/n: 186002737)
Mobile phase A:	Water
Mobile phase B:	Acetonitrile
Mobile phase C:	2% Acetic acid in water
Flow rate:	1 mL/min

Injection volume:	10 µL
Isocratic Mobile Phase Conditions:	55% A, 35% B, 10% C
Sample concentration:	10 µg/mL in water
Temperature:	30 °C
Detection:	UV @ 254 nm
Instrument:	Alliance 2695 with 2996 PDA

Compounds	USP tailing
1. Oxazepam	1.02
2. Lorazepam	0.95
3. Desmethyldiazepam	1.00
4. Temazepam	1.00
5. Diazepam (Valium)	0.99

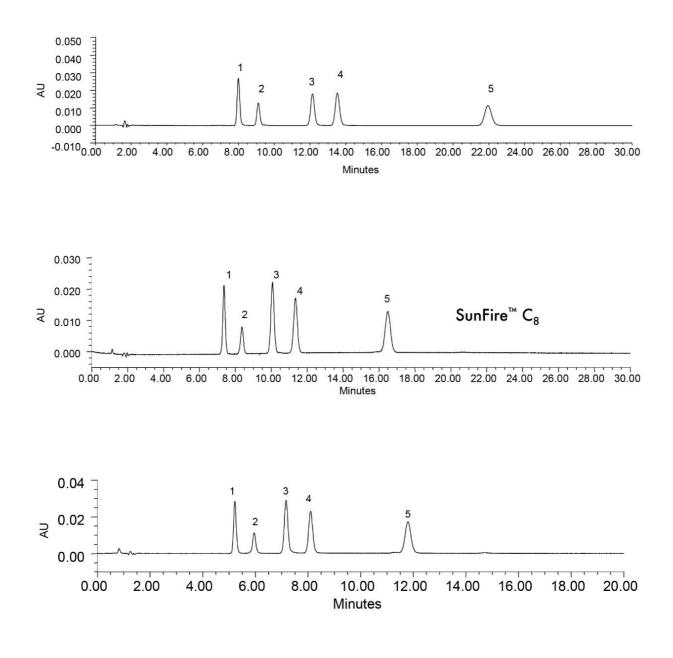
### Compounds

Column:	SunFire C <sub>8</sub> 4.6 x 100 mm, 5.0 µm (p/n: 186002731)
Mobile phase A:	Water
Mobile phase B:	Acetonitrile
Mobile phase C:	2% Acetic acid in water
Flow rate:	1 mL/min

Injection volume:	10 µL
Isocratic Mobile Phase Conditions:	55% A, 35% B, 10% C
Sample concentration:	10 µg/mL in water
Temperature:	30 °C
Detection:	UV @ 254 nm
Instrument:	Alliance 2695 with 2996 PDA

Compounds	USP tailing
1. Oxazepam	1.09
2. Lorazepam	0.96
3. Desmethyldiazepam	1.02
4. Temazepam	1.06
5. Diazepam (Valium)	1.06

Results and Discussion



#### Featured Products

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

WA41889, March 2005

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