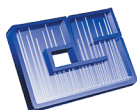




# CHIRAL HANDBOOK

## HPLC & SFC Separations



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## TABLE OF CONTENTS

### CHAPTERS

<b>Introduction to Chiral Separations</b>	<b>2</b>
<b>Method Development</b>	<b>3</b>
Guide for HPLC	3
Guide for SFC	13
<b>Regis Chiral Columns</b>	<b>21</b>
Pirkle-Type Chiral Stationary Phases	21
Polysaccharide-Based Chiral Stationary Phases	28
<b>Crown-Ether Chiral Stationary Phases</b>	<b>30</b>
Guide for ChiroSil Method Development	30
<b>Frequently Asked Questions</b>	<b>34</b>
<b>HPLC &amp; SFC Chiral Applications</b>	<b>39</b>
<b>References</b>	<b>360</b>
<b>Index</b>	<b>364</b>

## A RESOURCE BUILT FROM NEARLY 50 YEARS OF EXPERIENCE

Regis is pleased to present the second edition of the Chiral Handbook. This definitive resource contains over 950 chiral applications using a variety of chiral column types as well as method development guidance and a Frequently Asked Question section.

Don't see the application you are looking for? Regis maintains a dedicated chiral separations laboratory that provides free chiral screening to identify the best column for your separation. For the latest applications and resources, please contact Regis or visit our website ([www.chiral.com](http://www.chiral.com)) for the most up-to-date information.

Since 1972, Regis Technologies, Inc. has been a leader in HPLC and SFC chiral separations and purification services. We are proud to be a trusted supplier of high-quality chromatography products and unique chiral stationary phases.

Regis offers four different types of Chiral Stationary Phases (CSPs):

- Covalently bonded Pirkle-Type
- Immobilized Polysaccharide
- Coated Polysaccharide
- Covalently bonded 18 Crown-ether

Columns are available in analytical to preparative sizes as well as custom sizes.

### CHIRAL SEPARATIONS

One of the biggest challenges is finding the best column for separating compounds of various types, as there is no universal chiral stationary phase, and predicting which chiral stationary phase will provide the best separation is difficult. Unlike many normal phase or reversed-phase separations, chiral separations do not simply depend on hydrophobicity. Chiral separations depend highly on the differences in orthogonality and planar shape between the two stereoisomers and their interaction with the stationary phase. The CSP interacts with analyte enantiomers to form short-lived, transient diastereomeric complexes. The binding strength of one of those complexes will be stronger than the other, resulting in differences in retention times for the enantiomer pair. Often, more than one column may provide some separation, but in many cases, only one column or possibly two will provide adequate resolution of the enantiomers. Therefore, screening of multiple columns is often needed to find the right column for separation.

## CHIRAL SCREENING

Since there is no universal CSP, we recommend building a small library of chiral columns that have broad applicability and durability for high volume screening. We can recommend a column set that matches your needs and covers the broadest spectrum of selectivity. Our general recommendations for kits containing two to five columns are listed below.

### 3 Columns:

- Reflect™ I-Amylose A
- Reflect™ I-Cellulose C
- Whelk-O® 1

### 5 Columns:

- Reflect™ I-Amylose A
- Reflect™ I-Cellulose C
- Reflect™ I-Cellulose B
- Reflect™ C-Amylose A
- Whelk-O® 1

### Amino Acids and Amine-containing Compounds:

- ChiroSil®
- ChiroSil® ME

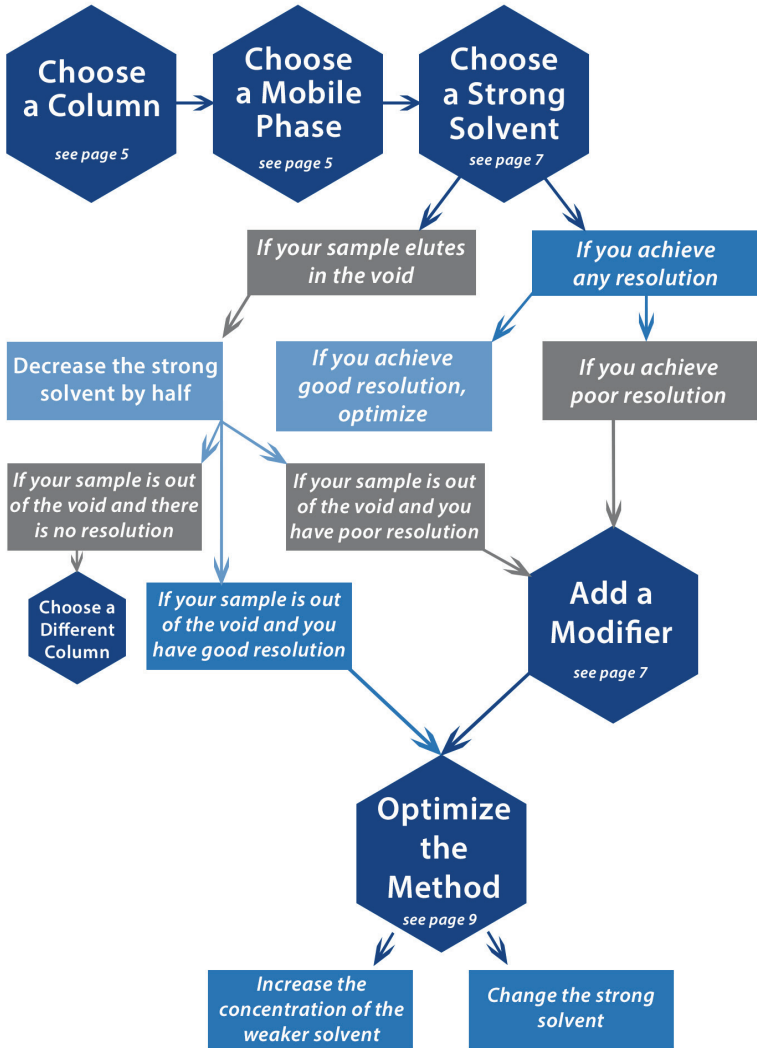
## METHOD DEVELOPMENT - HPLC

The ability to achieve separation of two enantiomers is measured by enantioselectivity, the value of the separation factor ( $\alpha$ ) for the two enantiomers. A pair of enantiomers is considered resolved if  $\alpha > 1.1$ .

### General Tips

- HPLC method development protocols are similar for all phases, except for ChiroSil
- There are some restrictions on solvents that can be used with coated polysaccharide phases
- There are no restrictions on solvents that may be used with the Whelk-O 1 and immobilized polysaccharide phases
- Coated polysaccharide columns can tolerate up to 90% water, but high aqueous mobile phases may irreversibly alter the column; if the column is to be used with water, it is strongly recommended that the column be dedicated to reversed-phase only

## QUICK SCHEME METHOD DEVELOPMENT



## METHOD DEVELOPMENT – STEP BY STEP

### STEP 1: Choosing the Appropriate Column

We recommend using the following sequence of columns to start your method development. When doing method development at Regis, the Whelk-O 1 is our first choice, as it exhibits a broad range of selectivity and has the ability to invert elution order if needed.

Order of Preference:

- Whelk-O 1 (Pirkle-type)
- Reflect I-Amylose A (immobilized polysaccharide)
- Reflect I-Cellulose C (immobilized polysaccharide)
- Reflect I-Cellulose B (immobilized polysaccharide)
- Reflect C-Amylose A (coated polysaccharide)
- Reflect C-Cellulose B (coated polysaccharide)
- Reflect I-Cellulose J (immobilized polysaccharide)
- Other Pirkle-type phases (ULMO, DACH-DNB, Leucine, Phenylglycine, etc.)

First choice for amino acids and compounds containing primary amines:

- ChiroSil (Crown Ether)
- ChiroSil ME (Crown Ether)

Column Family	Solvent Restrictions	pH Range	Temp Range	Recommended Storage
<b>Whelk-O 1 &amp; Reflect Immobilized</b>	None	2.5 - 7.5	0 - 40 °C	100% Organic solvent
<b>Reflect Coated &amp; Other Coated Polysaccharide Phases</b>	Do not use Acetone, Chloroform, Ethyl Acetate, DMF, DMSO, Methylene Chloride and THF; up to 60% water OK; acid and base modifiers should not exceed 0.5%	2.5 - 7.5	0 - 40 °C	Hexane:IPA (90:10)
<b>ChiroSil</b>	None	1.5 - 7.5	-5 - 50 °C	100% Methanol
<b>Other Pirkle Phases</b>	None	2.5 - 7.5	0 - 40 °C	100% Organic solvent

### STEP 2: Choosing the Mobile Phase

Factors such as solubility and future considerations for preparative work usually help to determine whether to develop methods with reversed-phase or normal phase solvents. Pirkle-Type phases can be used in either mode, but typically perform best with normal phase solvents. Since many analytical chiral methods later scale up to preparative separations, we recommend using normal phase as a first approach. We suggest the starting mobile phase should be the strongest solvent combination that allows full sample solubility.

**Normal Phase**

- Hexane/IPA
- Hexane/Ethanol
- Hexane/CH<sub>2</sub>Cl<sub>2</sub>\*
- Hexane/CH<sub>2</sub>Cl<sub>2</sub>/Ethanol\*
- Hexane/Ethyl Acetate\*
- Methanol/CH<sub>2</sub>Cl<sub>2</sub>\*
- Ethanol/CH<sub>2</sub>Cl<sub>2</sub>\*
- Heptane/CH<sub>2</sub>Cl<sub>2</sub>\*

**Reversed-Phase**

- H<sub>2</sub>O/Methanol
- H<sub>2</sub>O/Ethanol
- H<sub>2</sub>O/Acetonitrile
- H<sub>2</sub>O/THF\*

\*Do not use these solvent systems with coated polysaccharide phases because they can swell or dissolve the polysaccharide coating and destroy the column.

Flow rates for HPLC columns are chosen as a function of several factors, including column dimensions, particle size, and the nature of the mobile phases employed. Typical flow rates for normal-phase HPLC operation are listed in the table below.

Typical Normal-Phase HPLC Flow Rate (mL/min)

Column i.d.	Particle Size					
	1.8 μm	3.5 μm	5.0 μm	10.0 μm	16.0 μm	20.0 μm
2.1 mm	0.87	0.45	0.31	0.16	0.10	0.08
3.0 mm	1.8	0.91	0.64	0.32	0.20	0.16
4.6 mm	4.2	2.1	1.5	0.75	0.47	0.37
10.0 mm	20	10	7.1	3.5	2.2	1.8
21.1 mm	88	45	32	16	10	8
30.0 mm	177	91	64	32	20	16
50.0 mm	492	253	177	88	55	44

The following equation can be used to scale a previously established HPLC method to a column with a different internal diameter (i.d.) and particle size:

$$F_{\text{new}} = F_{\text{ref}} \left( \frac{r_{\text{new}}}{r_{\text{ref}}} \right)^2 \left( \frac{d_{\text{p,ref}}}{d_{\text{p,new}}} \right)$$

where:

F = flow rate (mL/min)

new = new column

r = column radius (mm)

ref = reference column

d<sub>p</sub> = particle diameter (μm)

For example, you might develop a method on the analytical scale using a 4.6 mm i.d. column with 3 μm particles using a flow rate of 1.0 mL/min. An equivalent flow rate with a preparative 50 mm i.d column and 10 μm particles is approximately 35 mL/min.

$$F_{\text{new}} = 1.0 \text{ mL/min} \left( \frac{25 \text{ mm}}{2.3 \text{ mm}} \right)^2 \left( \frac{3 \text{ μm}}{10 \text{ μm}} \right) \approx 35.4 \text{ mL/min}$$

**STEP 3: Choosing the Strong Solvent**

Start with a high percentage (e.g. 50%) of strong solvent (normal phase - ethanol, IPA, etc.; reversed-phase - methanol, acetonitrile, etc.). Starting with a strong solvent ensures that all peaks will elute off the column quickly.

**Sample:** Naproxen

**Column:** (R,R) Whelk-O 1, 25 cm x 4.6 mm, 5  $\mu$ m

**Mobile Phase:** (50/50) Hexane/Ethanol

**Flow Rate:** 1.5 mL/min

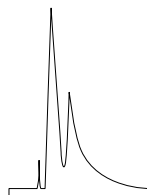
**Detection:** UV 254 nm

**Run Time:** 6.5 min

**k':** 1.37

**$\alpha$ :** 1.87

**R<sub>s</sub>:** 1.59



- If you achieve any resolution, such as the above example, move on to Step 4
- If your sample comes off in the void, decrease the strong solvent concentration by half
- If your sample is now out of the void and you have resolution, move on to Step 4
- If your sample is out of the void, and there is no resolution, choose a different column

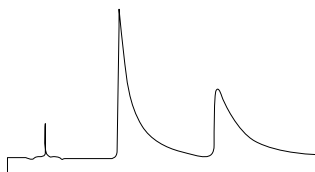
**STEP 4: Adding a Mobile Phase Modifier**

As you can see, the peak shape of the initial separation is very poor. To rectify this problem, a modifier is usually added. Concentration of the modifier should be kept as low as possible (between 0.1-0.5%). Recommended starting concentration is 0.1%. If you are satisfied with the peak shape, you do not need to add a modifier; move on to Step 5 and optimize your separation.

- For basic or amine groups, add triethylamine (TEA), diethylamine (DEA) or ammonium acetate
- For acidic groups, add Acetic Acid, TFA (TFA) or ammonium acetate

Analyte	Modifier
Acid/Acid Salt	Acetic Acid (0.1%-0.4%)
	Ammonium Acetate (0.01M-0.1M)
	TFA* (0.1%-0.5%)
Amine/Amine Salt	TEA (0.1%-0.5%)
	DEA (0.1%-0.5%)
	Ammonium Acetate (0.01M-0.1M)
Bifunctional	Ammonium Acetate/TEA or DEA
	Acetic Acid/TEA or DEA
	TEA or DEA/TFA*

\*Use TFA only if absolutely necessary

**Adding 0.1% TEA to the Mobile Phase****Sample:** Naproxen**Column:** (R,R) Whelk-O 1, 25 cm x 4.6 mm, 5  $\mu$ m**Mobile Phase:** (50/50) Hexane/Ethanol + **0.1% TEA****Flow Rate:** 1.5 mL/min**Detection:** UV 254 nm**Run Time:** 19.0 min **$k'$ :** 4.63 **$\alpha$ :** 2.07 **$R_s$ :** 4.14

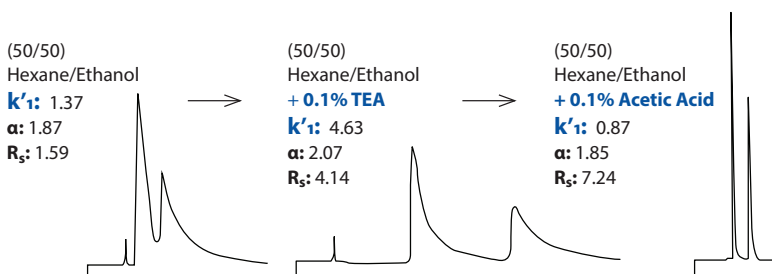
Although resolution increased with the addition of 0.1% of triethylamine to the mobile phase, the peak shape is still very poor. Try adding a different modifier.

**Adding 0.1% Acetic Acid to the Mobile Phase****Sample:** Naproxen**Column:** (R,R) Whelk-O 1, 25 cm x 4.6 mm, 5  $\mu$ m**Mobile Phase:** (50/50) Hexane/Ethanol + **0.1% Acetic Acid****Flow Rate:** 1.5 mL/min**Detection:** UV 254 nm**Run Time:** 4.7 min **$k'$ :** 0.87 **$\alpha$ :** 1.85 **$R_s$ :** 7.24

Replacing TEA with Acetic Acid greatly improved peak shape while maintaining adequate resolution.

**Recapping the First Four Steps:**

For this example, you can stop at 50/50 Hexane/Ethanol + 0.1% Acetic Acid if you are only looking for a simple method that achieves adequate separation, or you can carry it forward to Step 5 and optimize.





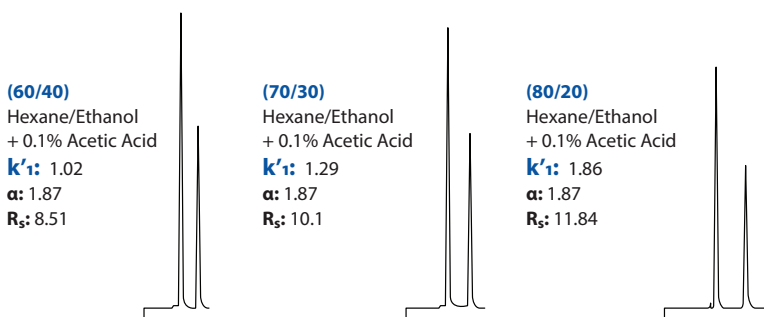
## STEP 5: Optimizing your Method

Optimizing a chiral method can be performed with respect to several parameters, such as resolution, speed, solubility, loading, etc. In this way, it is very similar to optimizing an achiral method. Changing mobile phase component concentrations and even the components themselves can dramatically change resolution.

Optimization of a chiral separation method can be as simple or as complicated as you want it to be. Different mobile phase components can be used; modifiers can be changed or eliminated; you can switch to reversed-phase solvents; and you can change columns. We suggest you keep it as simple as possible. Once you have achieved an acceptable separation, move on to the next project. Small increases in resolution and alpha are usually not worth the time spent in method development to achieve those increases.

### 5a: Increasing the concentration of the weaker solvent

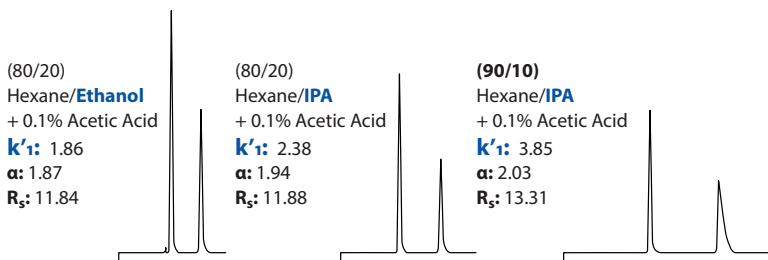
Increasing the hexane concentration increased the resolution in this example.

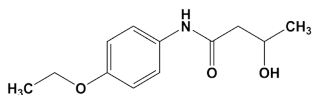
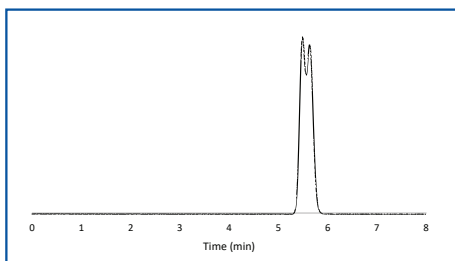
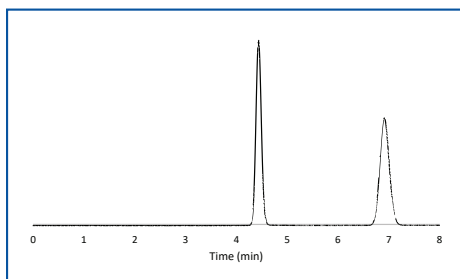


### 5b: Changing the strong solvent

By substituting IPA for ethanol in Example 1, we achieved an increase in both retention and alpha. We gained even greater separation by reducing the concentration of the strong solvent, IPA. In Example 2, a significant increase in resolution is observed when the strong solvent is changed from ethanol to IPA.

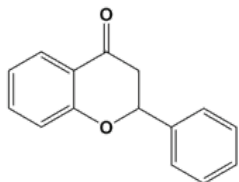
#### Example 1: Effect of Weakening the Strong Solvent



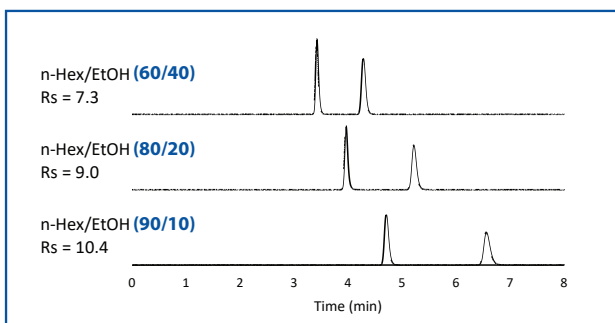
**Example 2:****Mobile Phase:**(70/30) Hexane/**Ethanol****Sample:** Bucetin**Column:** : Reflect C-Amylose A,  
5 μm, 25 cm x 4.6 mm**Flow Rate:** 1.5 mL/min**UV:** 254 nm**Mobile Phase:**(70/30) Hexane/**IPA**

**5c: Switching to reversed-phase separation mode**

The separation of flavanone can be performed in both normal phase and reversed-phase on Reflect I-Amylose A. Solvent strength can be changed to affect both retention and resolution.



Sample: Flavanone

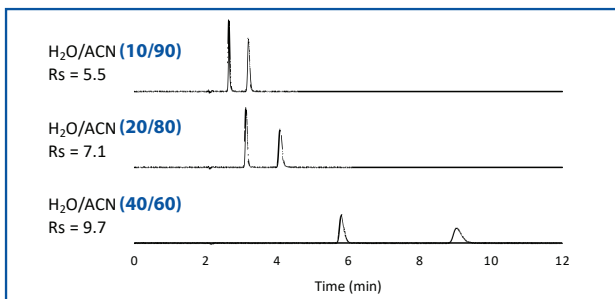
**Normal Phase**

**Column:** Reflect I-Amylose A, 5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** Hexane/Ethanol

**Flow Rate:** 1.5 mL/min

**UV:** 254 nm

**Reversed-Phase**

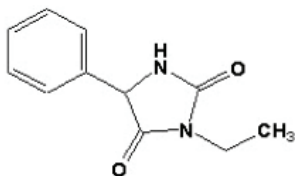
**Column:** Reflect I-Amylose A, 5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** Water/Acetonitrile

**Flow Rate:** 1.5 mL/min

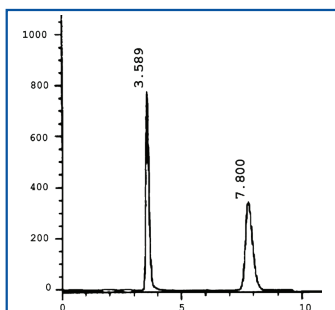
**UV:** 254 nm

Adequate enantiomeric separation of ethotoin can be obtained using either normal phase or reversed-phase methods.



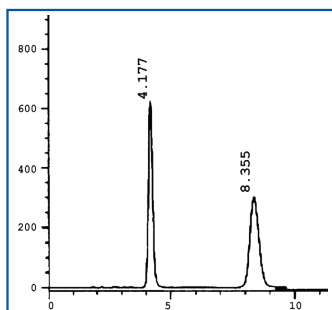
Sample: Ethotoin

### Normal Phase



**Column:** Whelk-O 1,  
10  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (60/40) Hexane/  
Ethanol  
**Flow Rate:** 1.5 mL/min  
**UV:** 220 nm  
 **$k'$ :** 0.85  
**Selectivity:** 3.58

### Reversed-Phase



**Column:** Whelk-O 1,  
10  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (70/30) CH<sub>3</sub>OH/H<sub>2</sub>O  
**Flow Rate:** 1.5 mL/min  
**UV:** 220 nm  
 **$k'$ :** 1.16  
**Selectivity:** 2.87

*Note: Whelk-O 1 can be switched between normal- and reversed-phase.*

## METHOD DEVELOPMENT - SFC

The ability to achieve separation of two enantiomers is measured by enantioselectivity, the value of the separation factor  $\alpha$  for the two enantiomers. In most cases, a pair of enantiomers is considered resolvable if  $\alpha > 1.1$ . For baseline resolution of peaks,  $R_s$  values should be  $> 1.5$ .

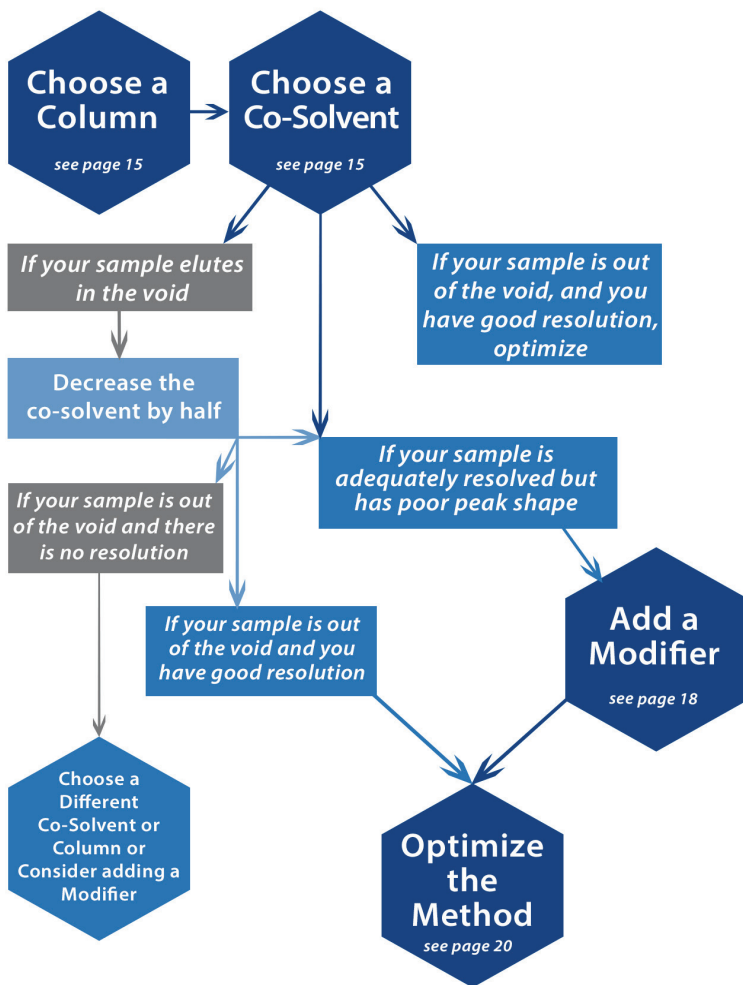
### General Tips

- SFC method development protocols are similar for all phases
- There are some restrictions on co-solvents that may be used with coated polysaccharide columns
- There are no restrictions on co-solvents that may be used with Whelk-O 1 and other immobilized phases, such as Reflect immobilized and the other Pirkle-Type phases

### SFC Start-Up Tips:

- Rinse the column with ethanol or IPA before connecting to your SFC system, since  $\text{CO}_2$  is very inefficient at removing Hexane
- It is not necessary to dedicate a column to SFC work, but it is highly recommended

## QUICK SCHEME METHOD DEVELOPMENT



## METHOD DEVELOPMENT – STEP BY STEP

### STEP 1: Choosing the Appropriate Column

We recommend using the following sequence of columns to start your method development. When doing method development at Regis, the Whelk-O 1 is our first choice, as it exhibits a broad range of selectivity and has the ability to invert elution order if needed.

Order of Preference:

- Whelk-O 1 (Pirkle-type)
- Reflect I-Amylose A (immobilized polysaccharide)
- Reflect I-Cellulose C (immobilized polysaccharide)
- Reflect I-Cellulose B (immobilized polysaccharide)
- Reflect C-Amylose A (coated polysaccharide)
- Reflect C-Cellulose B (coated polysaccharide)
- Reflect I-Cellulose J (immobilized polysaccharide)
- Other Pirkle-type phases (ULMO, DACH-DNB, Leucine, Phenylglycine, etc.)

### STEP 2: Choosing the Mobile Phase

Supercritical carbon dioxide is the main component of the mobile phase in SFC separations.

Often a polar organic co-solvent is needed to achieve timely elution and adequate separation. In choosing an optimal co-solvent, the highest priority is to obtain suitable separation and resolution of your racemic compounds. Another important consideration is the ability of the co-solvent to solubilize the sample, which becomes critical when scaling up to a preparative separation.

#### *Typical SFC Co-Solvents:*

##### **Polysaccharide CSPs**

- IPA (IPA)
- Ethanol (EtOH)
- Methanol (MeOH)

##### **Pirkle-Type and Immobilized Polysaccharide CSPs**

- IPA (IPA)
- Ethanol (EtOH)
- Methanol (MeOH)
- Acetonitrile (ACN)
- Methylene Chloride (CH<sub>2</sub>Cl<sub>2</sub>)
- Tetrahydrofuran (THF)
- Ethyl Acetate (CH<sub>3</sub>COONH<sub>4</sub>)
- Chloroform (CHCl<sub>3</sub>)
- Combinations of the above solvents

Flow rates for SFC columns are chosen as a function of several factors, including column dimensions and particle size. Because the viscosities of the mobile phases employed in SFC are so low, common flow rates are three to four times higher than when operating in normal phase HPLC mode. Typical flow rates for SFC operation are listed in the table below.

Typical SFC Flow Rate (mL/min)

Column i.d.	Particle Size					
	1.8 $\mu\text{m}$	3.5 $\mu\text{m}$	5.0 $\mu\text{m}$	10.0 $\mu\text{m}$	16.0 $\mu\text{m}$	20.0 $\mu\text{m}$
2.1 mm	2.3	1.2	0.83	0.42	0.26	0.21
3.0 mm	4.7	2.4	1.7	0.85	0.53	0.43
4.6 mm	11	5.7	4.0	2.0	1.2	1.0
10.0 mm	53	27	19	9.4	5.9	4.7
21.1 mm	230	120	84	42	26	21
30.0 mm	470	240	170	85	53	43
50.0 mm	130	680	470	240	150	118

The following equation can be used to scale a previously established SFC method to a column with a different i.d. and particle size:

$$F_{\text{new}} = F_{\text{ref}} \left( \frac{r_{\text{new}}}{r_{\text{ref}}} \right)^2 \left( \frac{d_{p,\text{ref}}}{d_{p,\text{new}}} \right)$$

where:

F = flow rate (mL/min)

r = column radius (mm)

$d_p$  = particle diameter ( $\mu\text{m}$ )

new = new column

ref = reference column

For example, you might develop a method on the analytical scale using a 4.6 mm i.d. column with 5  $\mu\text{m}$  particles using a flow rate of 3.0 mL/min. An equivalent flow rate with a preparative 50 mm i.d. column and 10  $\mu\text{m}$  particles is approximately 180 mL/min.

$$F_{\text{new}} = 3.0 \text{ mL/min} \left( \frac{25 \text{ mm}}{2.3 \text{ mm}} \right)^2 \left( \frac{5 \text{ } \mu\text{m}}{10 \text{ } \mu\text{m}} \right) \approx 177 \text{ mL/min}$$



### STEP 3: Co-Solvent Selection

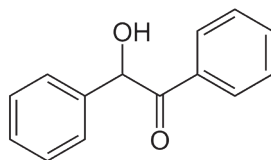
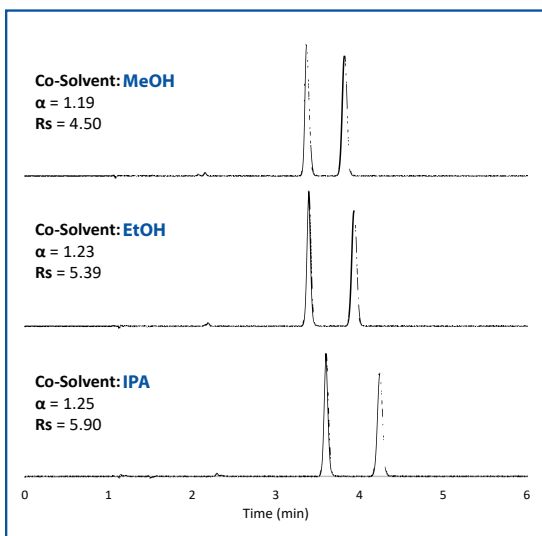
The majority of compounds can be separated using one of the three most common alcohols as a co-solvent: IPA, ethanol, or methanol. A small amount of polar modifier dissolved in the co-solvent may also be necessary to improve peak shape and resolution.

A ratio of 80:20, CO<sub>2</sub>: Co-Solvent (IPA, ethanol, or methanol) is a good starting point.

- If your sample elutes in the void, decrease the co-solvent by half; if your sample still elutes in the void, change to a different co-solvent
- If your sample is out of the void and you have adequate resolution move on to Step 4
- If your sample is out of the void, and there is no resolution, choose a different co-solvent, consider adding a modifier, or choose a different column

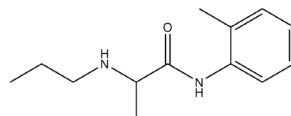
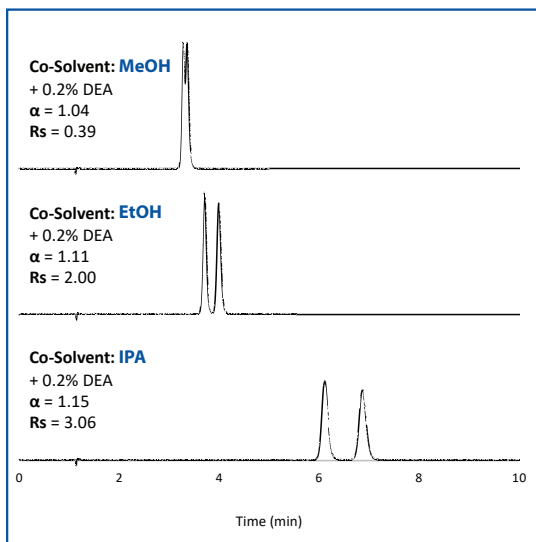
### Examples of the effect of various co-solvents on the separation:

Methanol, ethanol, and isopropanol co-solvents all provide good enantiomeric separation of benzoin on Reflect I-Cellulose B.



**Sample:** Benzoin  
**Column:** Reflect I-Cellulose B,  
 5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
 CO<sub>2</sub>/Co-Solvent  
**Flow Rate:** 3.0 mL/min  
**Temperature:** 30 °C  
**Pressure:** 150 bar  
**UV:** 254 nm  
**Instrument:** Shimadzu  
 Nexera UC

Isopropanol is the co-solvent that provides the best enantiomeric separation of prilocaïne.



**Sample:** Prilocaine  
**Column:** Reflect I-Cellulose C,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
CO<sub>2</sub>/Co-Solvent  
**Flow Rate:** 3.0 mL/min  
**Temperature:** 30 °C  
**Pressure:** 150 bar  
**UV:** 210 nm

#### STEP 4: Adding a Co-Solvent Modifier

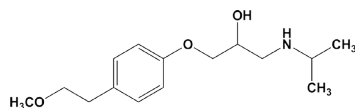
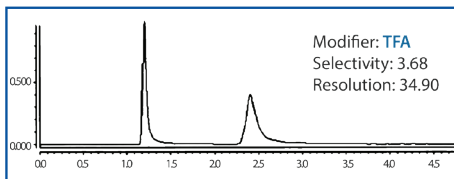
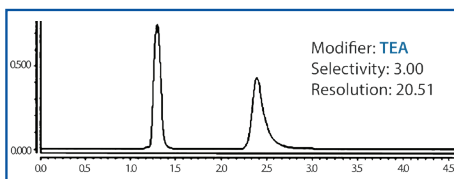
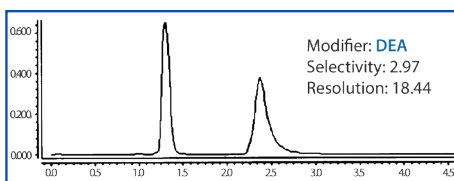
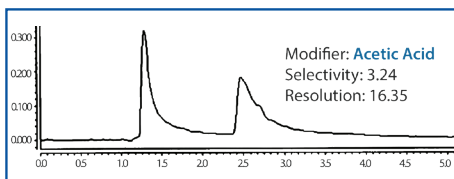
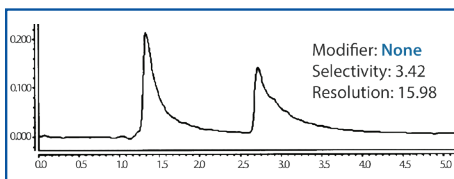
It is sometimes necessary to add a co-solvent modifier to improve resolution and/or peak shape. Concentration of the modifier should be kept as low as possible (between 0.1 – 0.5%). Recommended starting concentration is 0.1%.

Typical SFC Co-Solvent Modifiers for Polysaccharide and Pirkle-Type CSPs:

- Acetic Acid
- Triethylamine (TEA)
- Diethylamine (DEA)
- Trifluoroacetic Acid (TFA)
- Ammonium Acetate

**Effect of changing the co-solvent modifier:**

Addition of DEA, TEA, or TFA improves peak shape and provides good resolution for enantiomers of metoprolol.



**Sample:** Metoprolol  
**Column:** RegisCell,  
5  $\mu$ m, 25 cm x 4.6 mm  
**Mobile Phase:** (80/20)  
CO<sub>2</sub>/Ethanol + 0.5% Modifier  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40 °C  
**Pressure:** 125 bar  
**UV:** 280 nm  
**Instrument:** THAR SFC  
Method Station

## STEP 5: Optimizing your Method

Optimization of a chiral separation method can be as simple or as complicated as you want it to be. We suggest you keep it as simple as possible. Once you have achieved an acceptable separation, move on to the next project. Small increases in resolution and alpha are usually not worth the time spent in method development to achieve those increases.

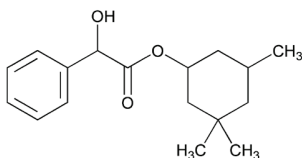
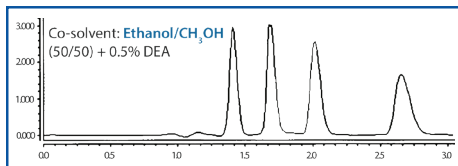
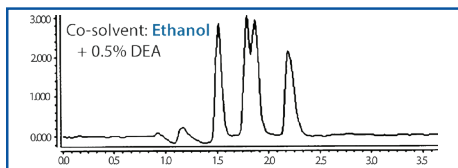
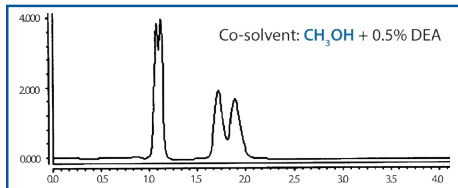
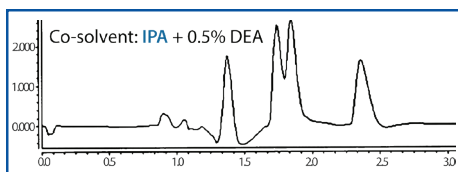
### Options for optimizing a method:

- Change the co-solvent
- Increase or decrease co-solvent concentration
- Change the co-solvent modifier
- Use a dual co-solvent

### Effect of Dual Co-Solvents:

Employing a dual co-solvent system can help separate compounds with multiple chiral centers.

In this case, a dual co-solvent system is the only way to achieve baseline separation for all four isomers of cyclandelate.



**Sample:** Cyclandelate  
**Column:** RegisPack CLA-1,  
 5  $\mu$ m, 25 cm x 4.6 mm  
**Mobile Phase:** (75/25)  
 CO<sub>2</sub>/Co-solvent + 0.5% DEA  
**Flow Rate:** 4.0 mL/min  
**Temp:** 40 °C  
**Pressure:** 125 bar  
**UV:** 220 nm  
**Instrument:** THAR SFC  
 Method Station

## REGIS CHIRAL COLUMNS

### PIRKLE-TYPE CHIRAL STATIONARY PHASES

#### Advantages of the Pirkle-Type Chiral Stationary Phases

- Excellent method development columns with applicability to a wide range of compound classes
- Alternate selectivity to polysaccharide chiral stationary phases
- Covalently bonded for long term performance and broad mobile phase compatibility
- Broad range of particle sizes and dimensions for analytical to preparative scale separations
- High loading capacity for excellent scalability in preparative applications
- Choice of enantiomeric phases allows inversion of peak elution order

The entire family of Regis' Pirkle-Type Chiral Stationary Phases (CSPs) can be used in HPLC or SFC applications and are compatible with both normal- and reversed-phase solvents. Since all of the Pirkle-Type CSPs are covalently bonded, the columns can tolerate all commonly used mobile phase combinations and are very durable. All of the Pirkle-Type CSPs are available in both enantiomeric forms. This allows the chromatographer to invert the elution order of the enantiomers by simply switching columns. This feature is helpful in determining enantiomeric purity when the trace enantiomer should elute before the major one. Elution order can also be important in preparative chromatography applications, because when the desired enantiomer elutes first, purity and production efficiency increases.

Pirkle Chiral Stationary Phases generally fall into three classes:  $\pi$ -electron acceptor/ $\pi$ -electron donors, the  $\pi$ -electron acceptors and the  $\pi$ -electron donors. With Pirkle phases, chiral recognition occurs at binding sites. Major binding sites are classified as  $\pi$ -basic or  $\pi$ -acidic aromatic rings, acidic sites, basic sites, and steric interaction sites. Aromatic rings are potential sites for  $\pi$ - $\pi$  interactions. Acidic sites supply hydrogens for potential intermolecular hydrogen bonds; the hydrogen is often an amido proton (N-H) from an amide, carbamate, urea, or amine. Basic sites, such as  $\pi$ -electrons, sulfinyl or phosphinyl oxygens, and hydroxy or ether oxygens, may also be involved in hydrogen bond formation. Steric interactions may also occur between large groups.

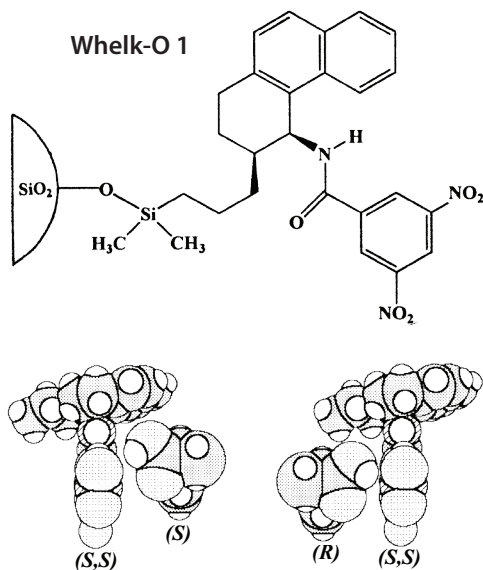
#### $\pi$ -ELECTRON ACCEPTOR / $\pi$ -ELECTRON DONOR PHASES

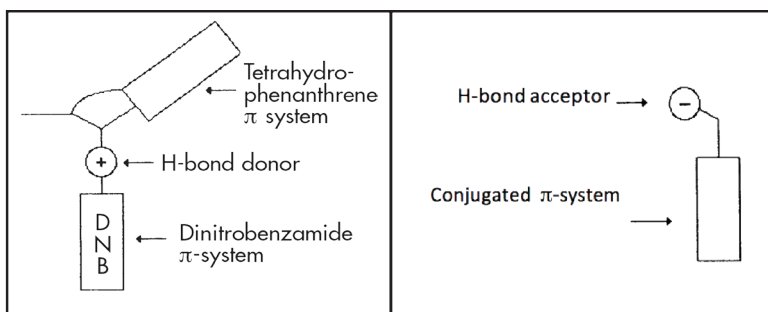
- WHELK-O 1
- WHELK-O 2
- ULMO

## WHELK-O 1

The Whelk-O 1 Chiral Stationary Phase is based on 1-(3,5-Dinitrobenzamido)-1,2,3,4-tetrahydrophenanthrene. This phase allows selective separation of racemates from a number of families including amides, epoxides, esters, ureas, carbamates, ethers, aziridines, phosphonates, aldehydes, ketones, carboxylic acids, and alcohols.

The Whelk-O 1 was originally designed for the separation of underivatized non-steroidal antiinflammatory drugs (NSAIDs). This  $\pi$ -electron acceptor/ $\pi$ -electron donor phase allows broad selectivity, allowing resolution of a wide variety of underivatized racemates. The broad versatility observed with the Whelk-O 1 column, compares favorably with polysaccharide-derived chiral stationary phases and in many cases offers alternate selectivity. In addition, because of its covalent nature, this chiral phase is compatible with all commonly used mobile phases, including aqueous systems—a distinct advantage over coated polysaccharide chiral stationary phases. Other advantages include column durability, excellent efficiency, elution order inversion, and excellent loading capacity. Whelk-O 1 is available in a full range of particle sizes (1.8-, 3.5-, 5-, 10-, 16-, and 20  $\mu\text{m}$ ) to serve small scale analytical separations up to large scale preparative work.



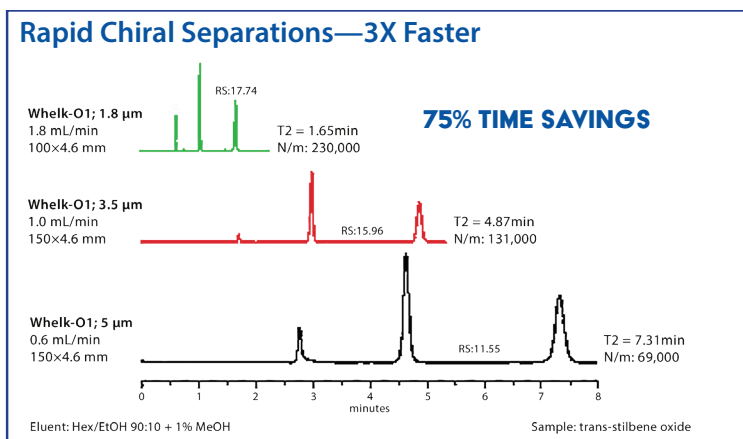


a) Schematic diagram showing key functional groups of the Whelk-O 1 involved in chiral recognition.

b) Schematic diagram showing generalized structure of analytes which are resolved on the Whelk-O 1.

### Now available in 1.8 $\mu\text{m}$ UHPLC columns!

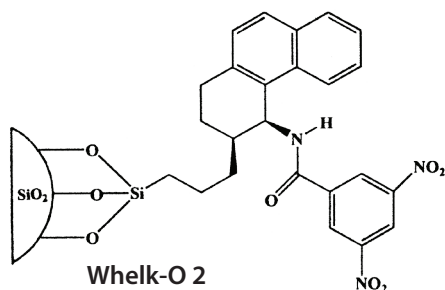
- Increase throughput and resolution—Great for rapid chiral screening
- 1.8  $\mu\text{m}$  fully porous particles for high-efficiency separations in both UHPLC and UHPSFC
- Fully scalable phase from 1.8  $\mu\text{m}$  to 20  $\mu\text{m}$ , analytical- to preparative-size columns
- Stable, long term performance for long column lifetimes at high flow rates and pressures



Sub-2  $\mu\text{m}$  particles provide very high efficiencies and resolution even at high flow rates, reducing analysis time and mobile phase consumption while increasing resolution. The Whelk-O 1 selector is bonded on 1.8  $\mu\text{m}$  totally porous silica for high-efficiency separations. Rapid screening of racemic mixtures can be obtained in a fraction of the time, improving throughput by greater than 3X. Whelk-O 1 sub-2  $\mu\text{m}$  columns are compatible with both UHPLC and UHPSFC separations.

## WHELK-O 2

The Whelk-O<sup>®</sup> 2 CSP is the covalent trifunctional version of Whelk-O 1. Whelk-O 2 retains the same chiral selector but modifies the support to silica from a monofunctional linkage to a trifunctional. In most cases, the enantioselectivity remains the same allowing the separation of the analogous family of racemates as does the Whelk-O 1.

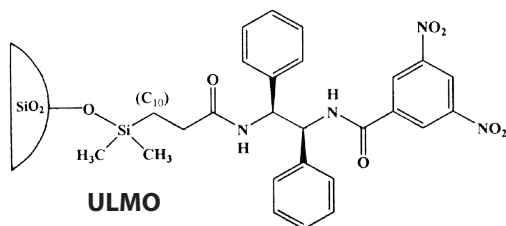


Whelk-O 2 was designed to enhance the stability of the stationary phase due to hydrolysis while using strong organic modifiers such as TFA. The Whelk-O 2 is ideal for preparative separations since the material is bonded on 10  $\mu\text{m}$ , 100 Å spherical Kromasil silica. This allows the preparative chromatographer to perform method development on their analytical column and immediately scale up to larger diameter columns.

## ULMO

The ULMO chiral stationary phase was developed by Austrian Researchers, Uray, Lindner, and Maier. This CSP has a general ability to separate enantiomers of many racemate classes, and is particularly good at separating enantiomers of aryl carbinols.

The ULMO CSP is based on a 3,5-Dinitrobenzoyl derivative of diphenylethylenediamine.





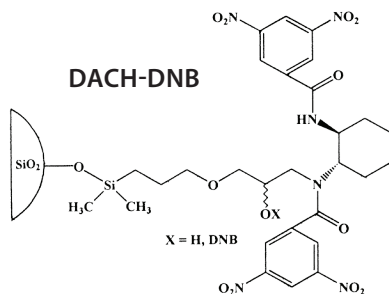
## $\pi$ -ELECTRON ACCEPTOR PHASES

- DACH-DNB
- Pirkle 1-J
- $\alpha$ -Burke 2
- $\beta$ -Gem 1
- Leucine
- Phenylglycine

The  $\pi$ -electron acceptor Pirkle Chiral Stationary Phases can be used to separate a wide range of enantiomers without derivatization, as demonstrated for the following classes of solutes: secondary benzyl alcohols, mandelic acid analogs,  $\alpha$ -hydroxy- $\alpha$ -aryl phosphates,  $\alpha$ -tetralol analogs, propranolol analogs,  $\beta$ -hydroxy-aryl sulfoxides, alkyl-aryl sulfoxides, diaryl sulfoxides, aryl-substituted cyclic phthalides, aryl-substituted lactams, aryl-substituted succinimides, aryl-substituted hydantoins, bi- $\beta$ -naphthol and its analogs, and  $\alpha$ -aryl acetamides.

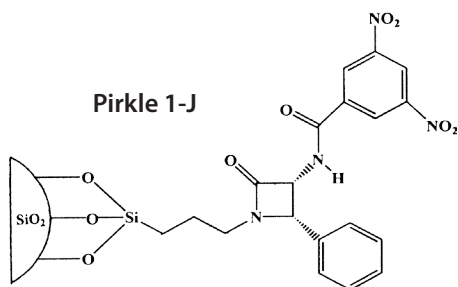
### DACH-DNB

The DACH-DNB CSP was designed by Italian chemists Gasparrini, Misiti and Villani at Sapienza University in Rome. The DACH-DNB CSP, which contains the 3,5-dinitrobenzoyl derivative of 1,2-diaminocyclohexane, has been found to resolve a broad range of racemate classes including amides, alcohols, esters, ketones, acids, sulfoxides, phosphine oxides, selenoxides, phosphonates, thiophosphineoxides, phosphineselenides, phosphine-boranes,  $\beta$ -lactams, organo- metallics, atropisomers and heterocycles.



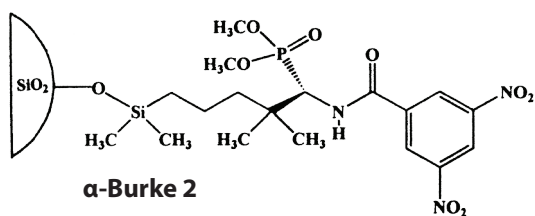
## PIRKLE 1-J

The Pirkle 1-J CSP is based on 3-(3,5-Dinitrobenzamido)-4-phenyl- $\beta$ -lactam. This unusual  $\beta$ -lactam structure alters its molecular recognition properties. The Pirkle 1-J is useful for the direct separation of underivatized  $\beta$ -blocker enantiomers. It can also be used for the separation of the enantiomers of arylpropionic acid NSAIDs as well as other drugs.



## $\alpha$ -BURKE 2

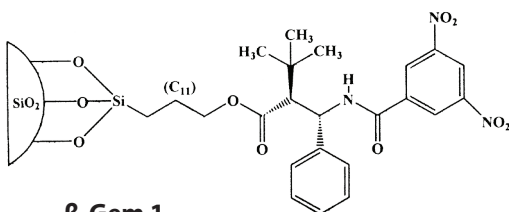
The  $\alpha$ -Burke 2 phase, first prepared by J. A. Burke III, a graduate student of Dr. Pirkle, is derived from dimethyl N-3,5-dinitro-benzoyl- $\alpha$ -amino-2,2-dimethyl-4-pentenyl phosphonate. The  $\alpha$ -Burke 2 has been specifically designed to directly separate the enantiomers of  $\beta$ -blockers without chemical derivatization, but this chiral phase also resolves the enantiomers of many compounds separated on  $\pi$ -acceptor Pirkle type chiral stationary phases.



## B-GEM 1

$\beta$ -Gem 1 is a  $\pi$ -acceptor chiral stationary phase and is derived from N-3,5-dinitrobenzoyl-3-amino-3-phenyl-2-(1,1-dimethylethyl)-propanoate.

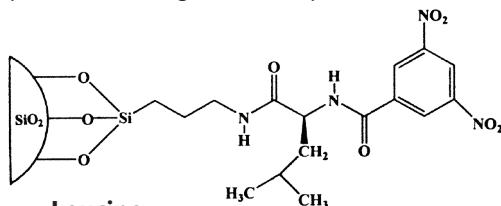
For many analytes, this chiral phase considerably outperforms its widely used analog, Phenylglycine. It can separate anilide derivatives of a wide variety of chiral carboxylic acids, including nonsteroidal anti-inflammatory agents.



**$\beta$ -Gem 1**

## LEUCINE

The leucine CSP is based on the 3,5-dinitrobenzoyl derivative of leucine. This  $\pi$ -acceptor phase demonstrates enhanced enantioselectivity for several classes of compounds, including benzodiazapines.

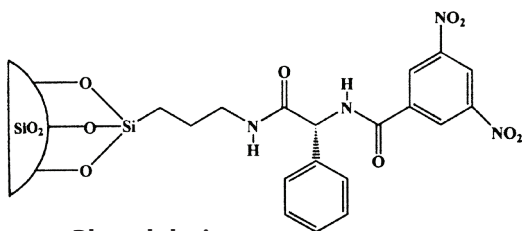


**Leucine**

## PHENYLGLYCINE

Our Phenylglycine column is based on a 3,5-dinitrobenzoyl derivative of phenylglycine.

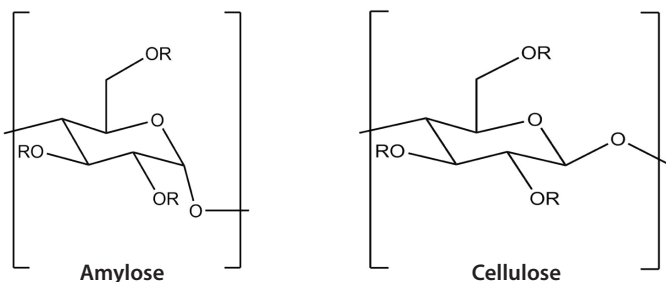
This CSP resolves a wide variety of compounds which contain  $\pi$ -basic groups. These include aryl-substituted cyclic sulfoxides, bi- $\beta$ -naphthol and its analogs,  $\alpha$ -indanol and  $\alpha$ -tetralol analogs, and aryl-substituted hydantoins.



**Phenylglycine**

## POLYSACCHARIDE-BASED CHIRAL STATIONARY PHASES

Polysaccharide chiral columns are the most widely used type of chiral stationary phases (CSPs) to separate enantiomers. Rugged chiral columns are rugged polysaccharide phases suitable for a wide range of chiral compounds. Unique, proprietary, phase coverage provides excellent peak shape and improved resolution versus leading chiral phases. High resolution greatly improves preparative loading, leading to greater productivity and higher purity separations.

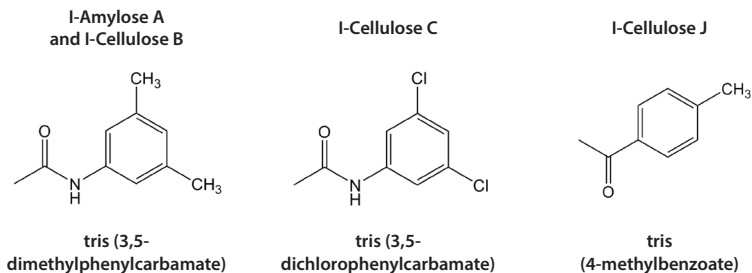


### REFLECT IMMOBILIZED POLYSACCHARIDE PHASES

Reflect polysaccharide immobilized chiral columns are made using a unique production process of immobilizing the chiral selector on high purity silica gel. Immobilizing the selector improves the stability of the chiral phase and broadens the range of mobile phase options.

- Rugged, immobilized phase for long column lifetimes
- High efficiency media with excellent peak shape and loading capacity
- Compatible with a broad range of solvents and separation modes (NP, RP, Polar Organic, SFC)
- Fully scalable from 3-20  $\mu\text{m}$

### Reflect Immobilized Chiral Selectors



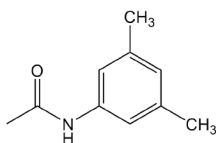
## REFLECT COATED POLYSACCHARIDE PHASES

Reflect polysaccharide coated chiral columns are made using a unique production process of coating the chiral selector on high purity silica gel. Reflect chiral phases have been developed to match or exceed performance of legacy polysaccharide chiral columns.

- High efficiency media with excellent peak shape and loading capacity
- Compatible with a wide range of solvents and separation modes (normal phase HPLC and SFC)
- Fully scalable from 3-20  $\mu\text{m}$

### Reflect Immobilized Chiral Selectors

C-Amylose A and  
C-Cellulose B



tris (3,5-  
dimethylphenyl)carbamate)

## REGISPACK, REGISCELL, & REGISPACK CLA-1 COATED POLYSACCHARIDE PHASES

This line of polysaccharide phases are legacy products, and we recommend developing new separation methods using the Reflect line of polysaccharide columns.

RegisPack® is a polysaccharide-coated chiral phase made by coating a tris-(3,5-dimethylphenyl)carbamoyl amylose chiral selector on high purity silica gel.

RegisCell® is a polysaccharide-coated chiral phase made by coating the chiral selector tris-(3,5-dimethylphenyl) carbamoyl cellulose on high purity silica gel.

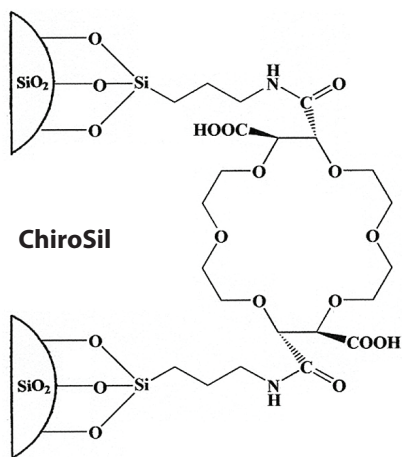
RegisPack® CLA-1 is a polysaccharide-coated, chlorinated phase made with a tris-(5-chloro-2-methylphenyl) carbamoyl amylose chiral selector.

- Polysaccharide chiral columns with broad applicability for the separation of enantiomers
- High pressure limit (450 bar) allows faster runs and equilibration times
- Compatible with normal phase, reversed-phase (RegisPack and RegisCell only), and SFC conditions

## CROWN-ETHER CHIRAL STATIONARY PHASES

### CHIROSil® RCA(+) AND SCA(-)

The ChiroSil phase is prepared by a covalent trifunctional bonding of (+) or (-)-(18-Crown-6)-tetracarboxylic acid as the chiral selector. This phase, which is available in analytical as well as preparative columns, is an excellent choice for the separation of amino acids and compounds containing primary amines. Like Whelk-O 1, this phase is highly durable, has universal solvent compatibility, and has the ability to invert elution order of enantiomers by switching columns. In the case of amino acids, most L-enantiomers elute first on the ChiroSil RCA(+) and D-enantiomers elute first on the ChiroSil SCA(-) column.



### Chirosil Method Development Guidance

**General Tip:** Aqueous acidic mobile phases are recommended for separation of  $\alpha$ -amino acids, primary amines and amino alcohols.

## Effect of organic modifier

The complexation of analytes inside the cavity of the 18-crown-6-ring of the CSP is expected to improve as the organic modifier content in the mobile phase increases. Higher organic modifier concentrations decrease the polarity of the mobile phase which drives the protonated amines into the less hydrophobic cavity of the 18-crown-6 ring of the ChiroSil® CSP, where the ionic moiety of the analytes can favorably interact with the lone-pair electrons of the oxygen atoms of the crown ether.

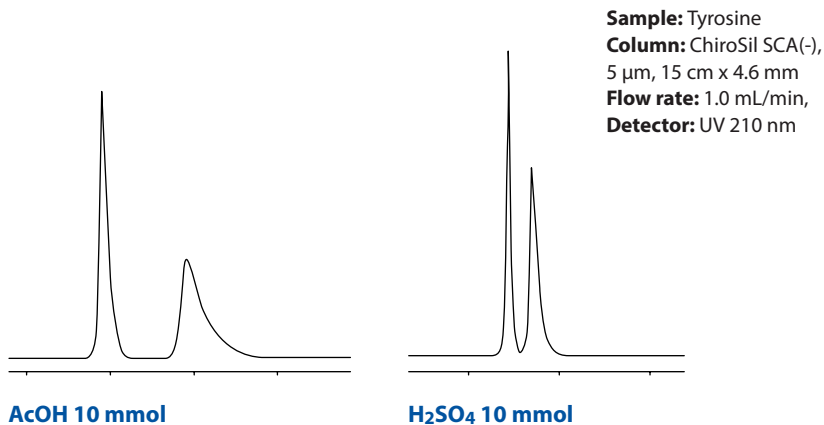
The capacity factor ( $k'$ ) generally decreases as the content of organic modifier increases and the separation factor ( $\alpha$ ) and the resolution factor ( $R_s$ ) generally increase as the concentration of organic modifier in the aqueous mobile phase increases.

## Effect of acidic modifier and acid concentration

Acidic modifier in the mobile phase plays an important role in protonating  $\alpha$ -amino acids and enhancing the diastereomeric complex formation of  $\alpha$ -amino acids inside the cavity of the chiral selector of the ChiroSil® CSP. The enantioselectivity enabled by different acids varies; so, it is recommended that you find the proper acid by screening.

### Recommended Acids:

- Acetic Acid
- Perchloric acid
- Sulfuric acid
- Phosphoric acid
- Trifluoroacetic Acid



## Acid Concentration

Generally, the capacity factor ( $k'$ ) increases as the concentration of acidic modifier in the mobile phase increases. However, some analytes separate better under low acid concentrations so we recommend testing under both high and low acid conditions.

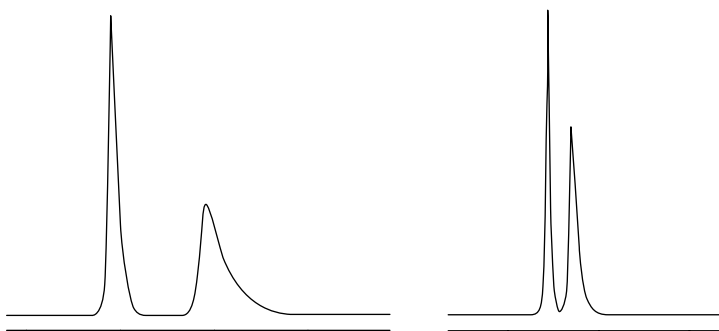
**Sample:** Tyrosine

**Column:** ChiroSil SCA(-), 5  $\mu\text{m}$ , 15 cm x 4.6 mm

**Mobile phase:** 80% MeOH in  $\text{H}_2\text{O}$  +  $\text{H}_2\text{SO}_4$  (x mM)

**Flow rate:** 0.8 mL/min

**Detector:** UV 210 nm



**$\text{H}_2\text{SO}_4$  1 mmol**

**$\text{H}_2\text{SO}_4$  10 mmol**

## Effect of temperature

At lower temperatures, the formation of the two diastereomeric complexes formed by the two enantiomers of racemic compounds inside the cavity of the crown ether ring is expected to be much more favorable than that of the less stable diastereomeric complex. The difference in the stability of the two diastereomeric complexes increases as the temperature of the column is lowered.

**The capacity factor ( $k'$ ), the separation factor ( $\alpha$ ) and the resolution factor ( $R_s$ ) typically improve as the temperature is lowered.**



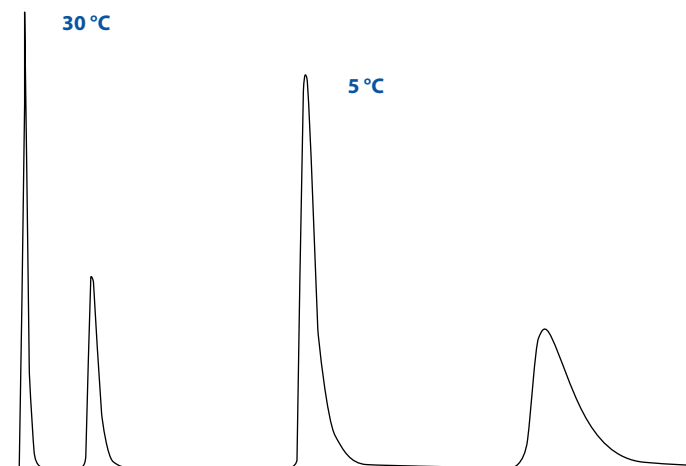
**Sample:** Phenylglycine

**Column:** ChiroSil SCA(-), 5  $\mu\text{m}$ , 15 cm x 4.6 mm

**Mobile phase:** 84% MeOH in H<sub>2</sub>O + H<sub>2</sub>SO<sub>4</sub> (10 mM)

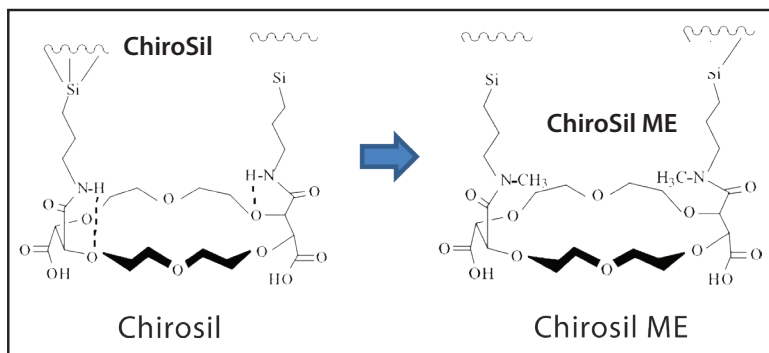
**Flow rate:** 0.8 mL/min

**Detector:** UV 210 nm



## CHIROSil® ME

In general, the separation factors and resolution factors for analytes on ChiroSil are greater than on ChiroSil ME, while capacity factors on ChiroSil ME are greater than on ChiroSil.



## FREQUENTLY ASKED QUESTIONS

Over the past half century, our staff has fielded many questions related to chiral separations. Listed here you will find some frequently asked questions. If you have additional questions regarding chiral chromatography, please feel free to contact Regis directly ([techsupport@registech.com](mailto:techsupport@registech.com)) or contact your local distributor.

### *What are the pressure ratings of Regis columns?*

All columns can tolerate pressures up to 6,000 pounds per square inch (psi). 1.8  $\mu\text{m}$  Whelk-O 1 UHPLC columns can tolerate up to 12,000 psi.

It is very important not to exceed the maximum pressure rating for any HPLC column as you may disrupt the integrity of the silica bed and destroy the column.

Particle Size ( $\mu\text{m}$ )	Length (mm)	Internal Diameter (mm)	Typical Flow Rate (ml/min)	Pressure (psi)
5, 10	250, 150, 100	4.6	1	6,000
5, 10	250, 150, 100	10	4.7	6,000
5, 10	250, 150, 100	21.2	21	6,000
5, 10	250, 150, 100	30	42.5	6,000
5, 10	250, 150, 100	50	118	6,000

### *Can you reverse Regis columns?*

Columns should be operated in the direction designated by the arrow on the column. With extended use and many sample injections, the column inlet may become contaminated. This may be indicated by a loss of performance or a rise in operating pressure. In such cases, you can reverse the column and flush it with a strong solvent (e.g. ethanol) at a low flow rate in effort to clean the column and restore its performance.

### *What is the pH range of Regis chiral columns?*

All of Regis' chiral phases are bonded on silica. The general recommended pH range is 2.5 to 7.5. Limited usage outside of this pH range can be tolerated, but extended usage outside of the range will decrease column life. Refer to columns' Care & Use guides for more specific recommendations per phase.

***Can Regis columns be used with normal- and reversed-phase solvents?***

Yes, all Regis CSPs can be used with both normal and reversed-phase solvents, but some restrictions exist for coated polysaccharide phases. Generally, the Pirkle-Type CSPs will give better separations in normal phase mode. However, there are numerous examples of separations in reversed-phase mode that outperform those in normal phase mode. With coated polysaccharide phases, such as coated Reflect phases, no more than 90% water should be used.

***Can I use the same column for reversed-phase and normal phase solvent systems while doing method development?***

Yes you may, for Whelk-O 1, immobilized Reflect, and ChiroSil but not for any coated polysaccharide phases. When switching between phases, make sure you completely flush out the column with a miscible solvent, such as IPA or ethanol. We recommend at least 20 column volumes.

***How long does it take Regis columns to equilibrate?***

The column should be equilibrated after about 20 column volumes. When you are switching from normal- to reversed-phase solvent systems and vice-versa, flush the column with a miscible solvent for 20 column volumes. It should take another 20 column volumes to equilibrate. The equilibration volumes may vary depending on the composition of the mobile phase. In some cases polysaccharide (immobilized and coated) can take longer to equilibrate especially when changing between alcohol based mobile phases.

***Do you always need a modifier in the mobile phase?***

No. Modifiers can be used to improve peak shape and resolution when the samples are extremely basic or acidic in nature. Acetic Acid or ammonium acetate are recommended for acidic compounds, and triethylamine, diethylamine, or ammonium acetate are recommended for basic compounds. Usually 0.1% modifier is all that is required.

**Note:** Although TFA may be used as a modifier, its use should be limited. Acetic Acid usually works as well as TFA.

***Can I dilute my sample in a solvent other than mobile phase?***

It is best to dissolve a sample in mobile phase whenever possible. If the sample is not fully soluble in the mobile phase, precautions should be taken when injecting a sample dissolved in a stronger solvent than mobile phase. Once the sample comes in contact with the less solubilizing mobile phase, precipitation can occur. To improve solubility, often dichloromethane (DCM) mixtures are used. If there are solubility issues with any of the immobilized or pirkle type phases, there should be no issues with stability of the column, however, there is a chance the column could become clogged. If this occurs, we suggest reversing the column and flushing with a compatible mobile phase that provides good solubility.

***What solvent restrictions are there for immobilized Reflect columns?***

There are no common solvents that will damage the Reflect immobilized columns. Most organic solvents, including hexane or heptane/alcohols, methanol, isopropanol, ethanol, acetonitrile, dichloromethane, chloroform, tetrahydrofuran, ethyl acetate, acetone, methyl acetate, MTBE, dimethylformamide, dimethylacetamide, etc. are perfectly compatible and suitable for use.

***Does my compound need an aromatic ring to achieve separation on a Pirkle-type chiral column?***

In most cases, yes. Chiral recognition occurs at binding sites. The potential  $\pi$ - $\pi$  interaction that can occur between the aromatic rings on the chiral selector and the aromatic ring on the sample is a major factor in achieving selectivity. Binding does occur at other sites such as acidic sites, basic sites and steric interaction sites. This is why you do not always need a ring, but by far, the  $\pi$ - $\pi$  interaction is the major binding site.

***Can I use Regis columns in polar organic mode?***

Yes, but the success rate for polar organic separations tends to be very poor. We do not recommend exclusively running in polar organic mode. Instead, we suggest adding other column chemistries (phases) to your normal phase system to achieve a higher success rate.

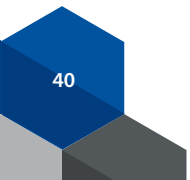
***What sample loading can I expect from Regis chiral columns?***

The typical loading range with relative retentions ( $\alpha$ ) greater than 1.3 is ~4-16 mg of sample per gram of packing. Below are typical loadings for some of the different column sizes:

- Analytical column, 25 cm x 4.6 mm, ~3.5 grams of packing, loading is 14-56 mg/injection
- Semi-prep column, 25 cm x 10.0 mm, ~16 grams of packing, loading is 64-256 mg/injection
- Prep column, 25 cm x 21.1 mm, ~72.5 grams of packing, loading is 288-1,152 mg/injection

**Note:** Factors, such as solubility, will greatly affect loading capacity.





# HPLC & SFC

## Chiral Applications

## HPLC & SFC CHIRAL APPLICATIONS

The following pages contain more than 950 chiral applications using a variety of chiral column types and separation modes (normal and reversed-phase HPLC, and SFC). Each application provides column and method information for separating a diverse range of chiral compounds.

Applications are listed alphabetically by compound name. If you don't find your compound listed, please visit our online database for the most up-to-date applications or contact us to learn more about our free chiral screening service.

The applications found in this handbook have been run using the following columns:

COLUMN	SIZE	(R,R) PART NUMBER	(S,S) PART NUMBER
Whelk-O 1	3.5 $\mu$ m, 25 cm x 4.6 mm	1-780223-300	1-780123-300
	5 $\mu$ m, 25 cm x 4.6 mm	1-780201-300	1-780101-300
	10 $\mu$ m, 25 cm x 4.6 mm	1-786515-300	1-786615-300
Reflect I-Amylose A*	5 $\mu$ m, 25 cm x 4.6 mm	1-591204-300	
Reflect I-Cellulose B*	5 $\mu$ m, 25 cm x 4.6 mm	1-592204-300	
Reflect I-Cellulose C*	5 $\mu$ m, 25 cm x 4.6 mm	1-593204-300	
Reflect I-Cellulose J*	5 $\mu$ m, 25 cm x 4.6 mm	1-594204-300	
Reflect C-Amylose A*	5 $\mu$ m, 25 cm x 4.6 mm	1-580204-300	
Reflect C-Cellulose B*	5 $\mu$ m, 25 cm x 4.6 mm	1-590204-300	
Alpha-Burke 2†	5 $\mu$ m, 25 cm x 4.6 mm	1-735035-300	1-735037-300
Beta-Gem 1	5 $\mu$ m, 25 cm x 4.6 mm	1-731043-300	1-731029-300
DACH-DNB	5 $\mu$ m, 25 cm x 4.6 mm	1-788101-300	1-788201-300
Leucine‡	5 $\mu$ m, 25 cm x 4.6 mm	1-731054-300	1-731041-300
Phenylglycine‡	5 $\mu$ m, 25 cm x 4.6 mm	1-731021-300	1-731024-300
Pirkle 1-J <sup>§</sup>	5 $\mu$ m, 25 cm x 4.6 mm	1-731044-300	1-731045-300
ULMO	5 $\mu$ m, 25 cm x 4.6 mm	1-787200-300	1-787100-300
	10 $\mu$ m, 25 cm x 4.6 mm	1-787400-300	1-787300-300
Whelk-O 2	10 $\mu$ m, 25 cm x 4.6 mm	1-786446-300	1-786415-300
ChiroSil	5 $\mu$ m, 15 cm x 4.6 mm	1-799001-300	1-799101-300
ChiroSil ME	5 $\mu$ m, 15 cm x 4.6 mm	1-788001-300	1-788009-300
RegisPack*	3 $\mu$ m, 25 cm x 4.6 mm	1-783504-300	
	5 $\mu$ m, 25 cm x 4.6 mm	1-783104-300	
RegisCell*	3 $\mu$ m, 25 cm x 4.6 mm	1-784504-300	
	5 $\mu$ m, 25 cm x 4.6 mm	1-784104-300	
RegisPack CLA-1*	3 $\mu$ m, 15 cm x 4.6 mm	1-793503-300	
	5 $\mu$ m, 25 cm x 4.6 mm	1-793104-300	

\* (R,R) and (S,S) not applicable † Available in (R) and (S) ‡ Available in D- and L-  
§ Available in (3R,4S) and (3S,4R) || Available in RCA and SCA



Columns with (R,R) and (S,S) configurations provide the same separation but in inverse elution order. All columns are available in analytical to preparative sizes with custom sizes offered for most. For more information, visit [www.chiral.com](http://www.chiral.com).

## FREE CHIRAL SCREENING

***Don't know where to start?*** Let us find the best column and method for your compound! A Regis chiral separations expert will develop a chiral separation method tailored to your analytical or preparative separation project, usually within three days.

### 3 Steps + 3 Days = Results

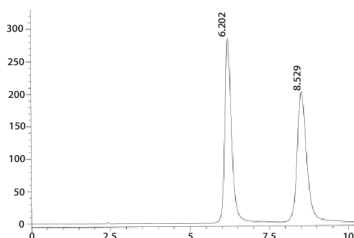
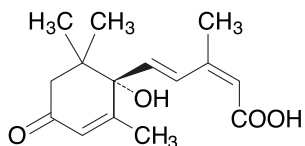
1. Execute a CDA, if desired. Regis has a premade template to assist with this step.
2. Complete a sample submission form, which includes health and safety information for your compound.
3. Submit a small amount of sample for screening. Regis will screen your sample across our full range of chiral stationary phases. Results are typically returned within three business days.

### Tech Tip

***Don't see the compound you are looking for? Visit [www.chiral.com](http://www.chiral.com) to search our online database of applications. Our separations team is constantly adding new applications to our searchable database. Alternatively, contact one of experts directly at [techsupport@registech.com](mailto:techsupport@registech.com).***

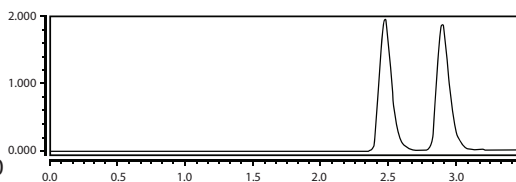
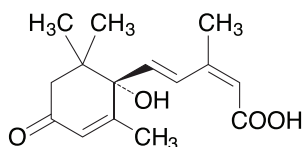
## Abscisic Acid

**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (75/25)  
Hexane/IPA + 0.1% Acetic Acid  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
 **$k'$ :** 2.21  
 **$\alpha$ :** 1.55  
**CAS #:** 21293-29-8  
**Catalog #:** 1-780101-300,  
1-780201-300



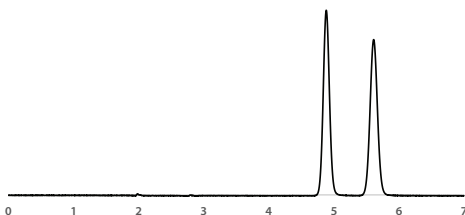
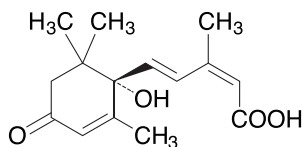
## Abscisic Acid

**Column:** (S,S) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (80/20)  
CO<sub>2</sub>/Ethanol  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40 °C  
**Pressure:** 125 bar  
**Detection:** UV 254 nm  
 **$k'$ :** 2.30  
 **$\alpha$ :** 1.25  
**Catalog #:** 1-780101-300



## Abscisic Acid

**Column:** Reflect I-Cellulose B,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (85/15/0.1)  
Hexane/Ethanol/Acetic Acid  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
 **$k'$ :** 1.44  
 **$\alpha$ :** 1.25  
**CAS#:** 14375-45-2  
**Catalog #:** 1-592204-300



## Abscisic Acid

**Column:** Reflect I-Cellulose C,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (90/10/0.1)  
Hexane/Ethanol/Acetic Acid

**Flow Rate:** 1.5 mL/min

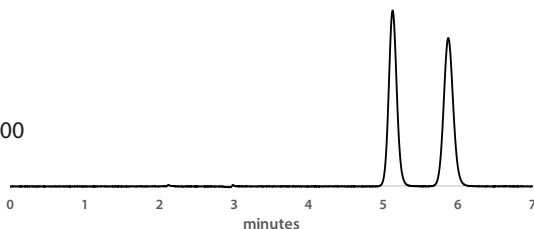
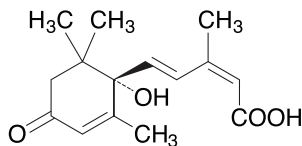
**Detection:** UV 254 nm

**k':** 1.56

**$\alpha$ :** 1.24

**CAS#:** 14375-45-2

**Catalog #:** 1-593204-300



## Abscisic Acid

**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (80/20/0.5)  
Hexane/IPA/HOAc

**Flow Rate:** 1.0 mL/min

**Detection:** UV 254 nm

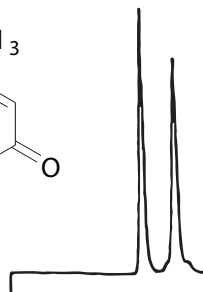
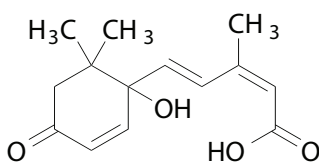
**Run Time:** 5 min

**k':** 1.58

**$\alpha$ :** 1.39

**Reference:** 9

**Catalog #:** 1-780101-300,  
1-780201-300



## Abscisic Acid

**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (80/20/0.5)  
Hexane/IPA/HOAc

**Flow Rate:** 1.0 mL/min

**Detection:** UV 254 nm

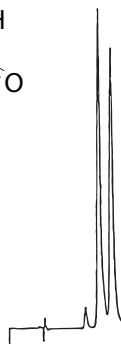
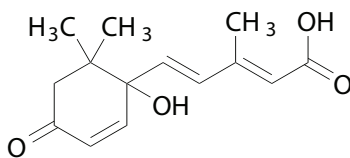
**Run Time:** 5 min

**k':** 2.08

**$\alpha$ :** 1.21

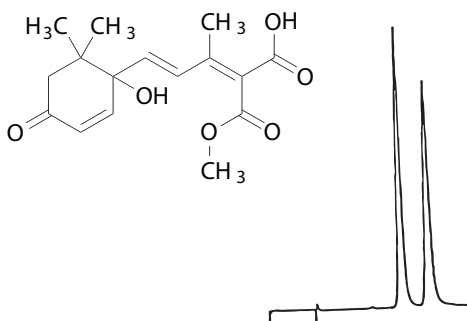
**Reference:** 9

**Catalog #:** 1-780101-300,  
1-780201-300



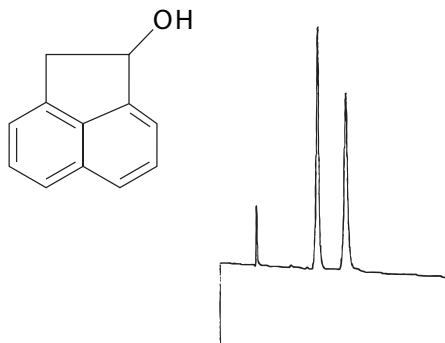
## ABA Methyl Ester

**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (80/20/0.5)  
Hexane/IPA/HOAc  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 5 min  
**k'**: 2.41  
 **$\alpha$ :** 1.31  
**Reference:** 9  
**Catalog #:** 1-780101-300,  
1-780201-300



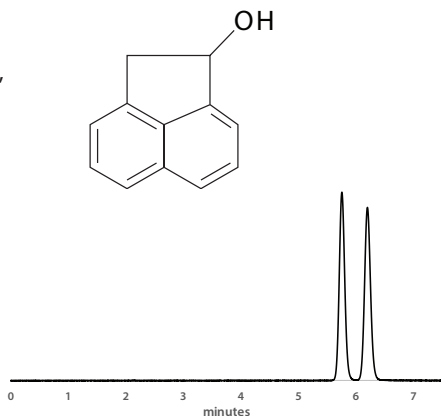
## Acenaphthenol

**Column:** (R,R) ULMO,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (95/5)  
Hexane/IPA  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 10 min  
**k'**: 1.68  
 **$\alpha$ :** 1.46  
**Catalog #:** 1-787200-300



## 1-Acenaphthenol

**Column:** Reflect I-Amylose A,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (95/5)  
Hexane/IPA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 290 nm  
**k'**: 0.86  
 **$\alpha$ :** 1.13  
**CAS #:** 6306-07-6  
**Catalog #:** 1-591204-300



## 1-Acenaphthenol

**Column:** Reflect I-Cellulose C,  
5  $\mu$ m, 25 cm x 4.6 mm

**Mobile Phase:** (90/10)  
Hexane/IPA

**Flow Rate:** 1.5 mL/min

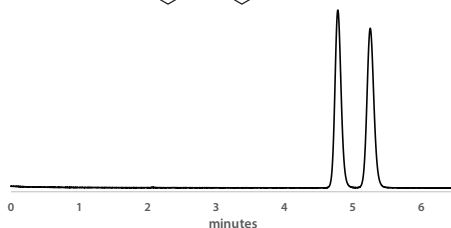
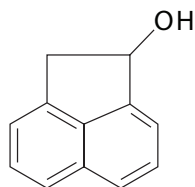
**Detection:** UV 290 nm

**k':** 1.38

**$\alpha$ :** 1.17

**CAS #:** 6306-07-6

**Catalog #:** 1-593204-300



## 1-Acenaphthenol

**Column:** Reflect C-Amylose A,  
5  $\mu$ m, 25 cm x 4.6 mm

**Mobile Phase:** (90/10)  
Hexane/IPA

**Flow Rate:** 1.5 mL/min

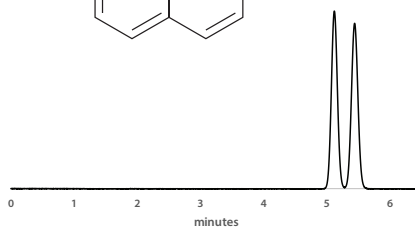
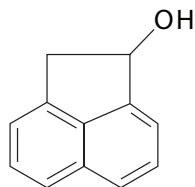
**Detection:** UV 290 nm

**k':** 1.55

**$\alpha$ :** 1.10

**CAS #:** 6306-07-6

**Catalog #:** 1-580204-300



## 1-Acenaphthenol

**Column:** RegisCell,  
5  $\mu$ m, 25 cm x 4.6 mm

**Mobile Phase:** (95/5)  
CO<sub>2</sub>/IPA

**Flow Rate:** 4.0 mL/min

**Pressure:** 125 bar

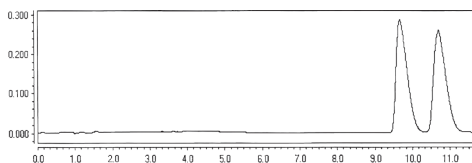
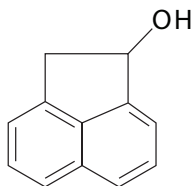
**Detection:** UV 254 nm

**Temperature:** 40 °C

**k':** 11.89

**$\alpha$ :** 1.11

**Catalog #:** 1-784104-300



## 1'-Acetoxychavicol Acetate

**Column:** (R,R) Whelk-O 1,  
10  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (90/10)  
Hexane/IPA

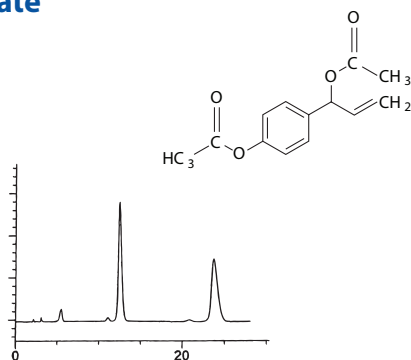
**Flow Rate:** 1.5 mL/min

**Detection:** UV 254 nm

**k':** 5.94

**$\alpha$ :** 2.05

**Catalog #:** 1-786515-300



## Adam's Acid Diethylamide

**Column:** (3R,4S) Pirkle 1-J,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (70/30)  
Hexane/IPA

**Flow Rate:** 1.0 mL/min

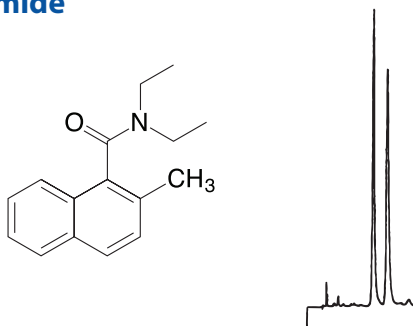
**Detection:** UV 254 nm

**Run Time:** 17.0 min

**k':** 4.11

**$\alpha$ :** 1.27

**Catalog #:** 1-731044-300



## CBZ-DL-Alanine

**Column:** Reflect I-Cellulose B,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (85/15/0.1)  
Hexane/Ethanol/Acetic Acid

**Flow Rate:** 1.5 mL/min

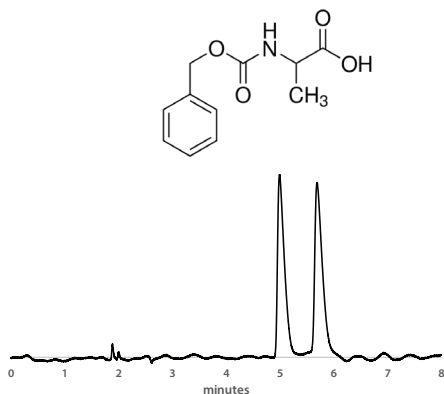
**Detection:** UV 220 nm

**k':** 1.49

**$\alpha$ :** 1.23

**CAS #:** 4132-86-9

**Catalog #:** 1-592204-300



## CBZ-DL-Alanine

**Column:** Reflect C-Amylose A,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (85/15/0.1)

Hexane/Ethanol/Acetic Acid

**Flow Rate:** 1.5 mL/min

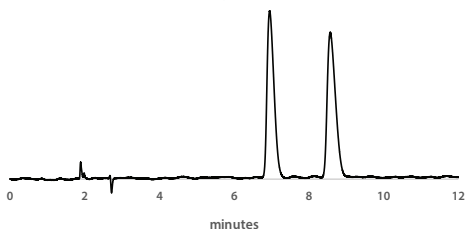
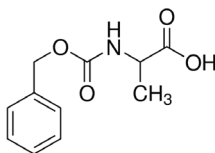
**Detection:** UV 220 nm

**k'**: 2.47

**$\alpha$** : 1.33

**CAS #:** 4132-86-9

**Catalog #:** 1-580204-300



## CBZ-DL-Alanine

**Column:** Reflect C-Cellulose B,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (85/15/0.1)

Hexane/Ethanol/Acetic Acid

**Flow Rate:** 1.5 mL/min

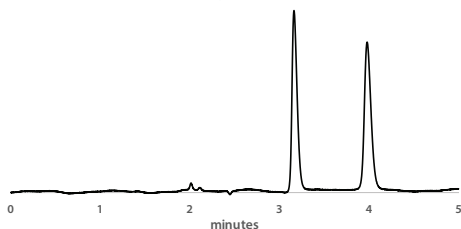
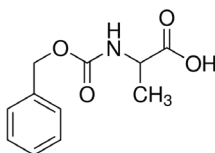
**Detection:** UV 220 nm

**k'**: 0.58

**$\alpha$** : 1.70

**CAS #:** 4132-86-9

**Catalog #:** 1-590204-300



## DL-Alanine

**Column:** ChiroSil ME RCA(+),

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (50/50)

5mM HClO<sub>4</sub> Acid/MeOH

**Flow Rate:** 0.5 mL/min

**Temperature:** 20 °C

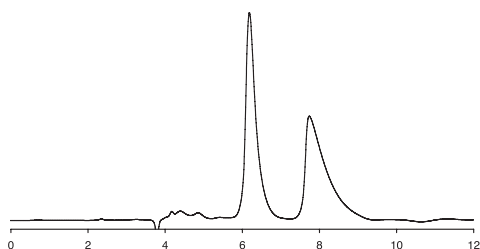
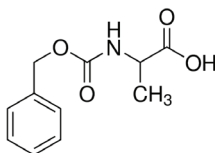
**Detection:** UV 210 nm

**k'**: 0.63

**$\alpha$** : 1.65

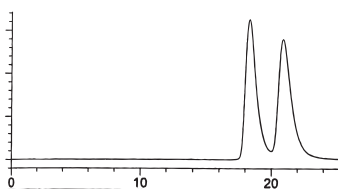
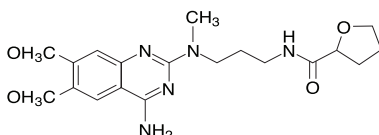
**Rs:** 3.96

**Catalog #:** 1-788002-300



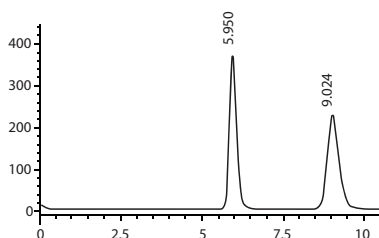
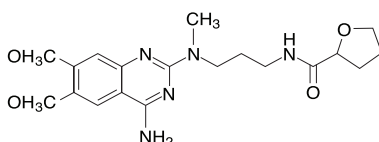
## Alfuzosin

**Column:** (R,R) Whelk-O 1,  
10  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (68/28/4)  
Hexane/ $\text{CH}_2\text{Cl}_2$ /Ethanol  
+ 4 mM Ammonium Acetate  
**Flow Rate:** 2.0 mL/min  
**Detection:** UV 254 nm  
 **$k'$ :** 7.37  
 **$\alpha$ :** 1.15  
**Catalog #:** 1-786515-300



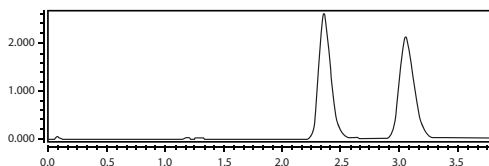
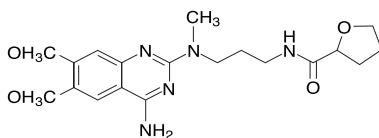
## Alfuzosin

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (70/30)  
Hexane/Ethanol + 0.1% DEA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
 **$k'$ :** 2.13  
 **$\alpha$ :** 1.76  
**CAS #:** 81403-80-7  
**Catalog #:** 1-783104-300



## Alfuzosin

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (65/35)  $\text{CO}_2$ /  
Ethanol + 0.5% DEA  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40  $^\circ\text{C}$   
**Pressure:** 125 bar  
**Detection:** UV 254 nm  
 **$k'$ :** 2.15  
 **$\alpha$ :** 1.43  
**CAS #:** 81403-80-7  
**Catalog #:** 1-783104-300





## Alprenolol

**Column:** Reflect I-Cellulose B,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (90/10/0.1)

Hexane/IPA/DEA

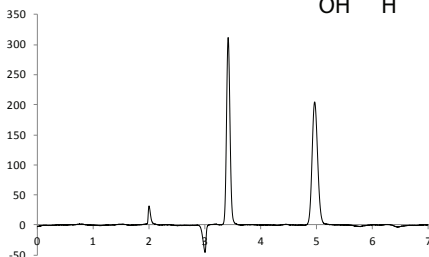
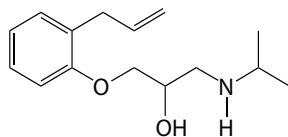
**Flow Rate:** 1.5 mL/min

**Detection:** UV 230 nm

**k'**: 0.78

**$\alpha$** : 1.59

**Catalog #:** 1-592204-300



## Alprenolol

**Column:** RegisCell,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (80/20)

CO<sub>2</sub>/IPA + 0.5% DEA

**Flow Rate:** 4.0 mL/min

**Temperature:** 40 °C

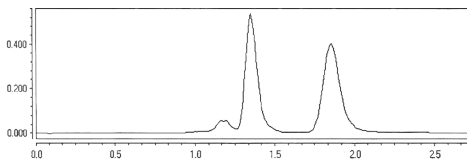
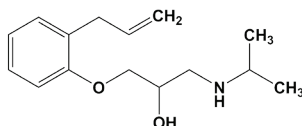
**Pressure:** 125 bar

**Detection:** UV 254 nm

**k'**: 0.80

**$\alpha$** : 1.85

**Catalog #:** 1-784104-300



## Alprenolol

**Column:**  $\alpha$ -Burke 2,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (90/5/5) CH<sub>2</sub>Cl<sub>2</sub>/

EtOH/MeOH 10 mM NH<sub>4</sub>OAc

**Flow Rate:** 1.0 mL/min

**Detection:** UV 254 nm

**Run Time:** 10 min

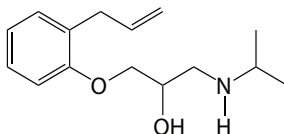
**k'**: 1.44

**$\alpha$** : 1.44

**Reference:** 33

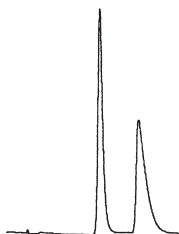
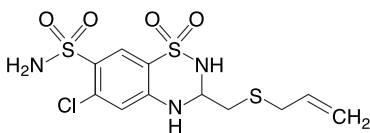
**Catalog #:** 1-735035-300,

1-735037-300



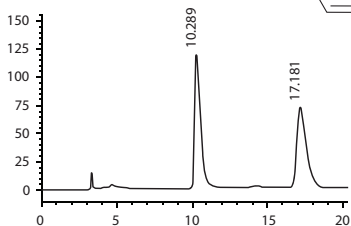
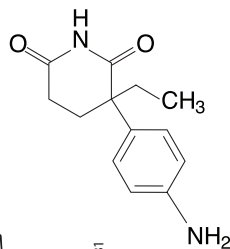
## Althiazide

**Column:** (S,S) ULMO,  
 5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (75/25)  
 Hexane/IPA + 0.1% Acetic Acid  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 13.0 min  
**k'**: 3.94  
 **$\alpha$ :** 1.53  
**Catalog #:** 1-787100-300



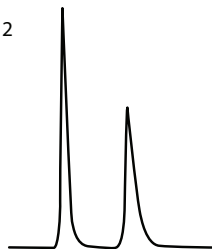
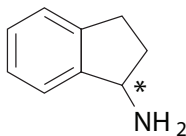
## Aminoglutethimide

**Column:** RegisPack,  
 5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** 100%  
 Ethanol  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 220 nm  
**k'**: 2.55  
 **$\alpha$ :** 1.93  
**CAS #:** 125-84-8  
**Catalog #:** 1-783104-300



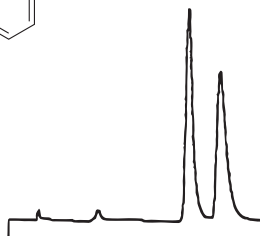
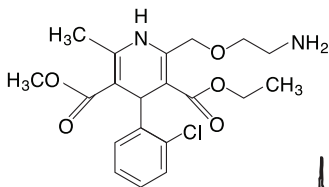
## 1-Aminoindan

**Column:** ChiroSil,  
 5  $\mu\text{m}$ , 15 cm x 4.6 mm  
**Mobile Phase:** (84/16)  
 CH<sub>3</sub>OH/H<sub>2</sub>O + 5 mM HClO<sub>4</sub>  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 210 nm  
**Run Time:** 4.8 min  
**k'**: 1.44  
 **$\alpha$ :** 1.91  
**Catalog #:** 1-799001-300,  
 1-799101-300



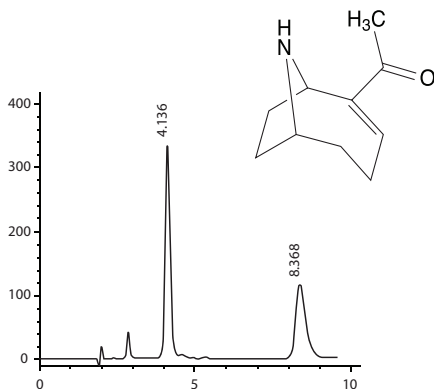
## Amlodipine

**Column:** (R,R) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (46/46/8)  
 $\text{CH}_2\text{Cl}_2$ /Hexane/Ethanol +  
0.01 M Ammonium Acetate  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 13.0 min  
**k':** 5.13  
 **$\alpha$ :** 1.22  
**Catalog #:** 1-780201-300



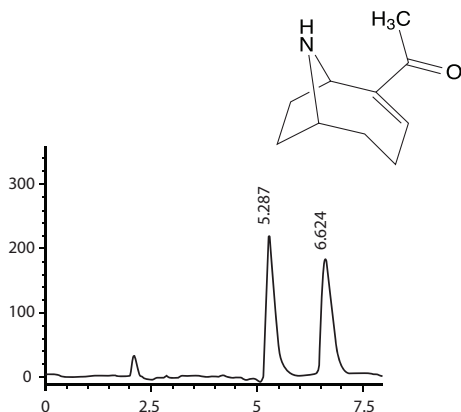
## Anatoxin-A

**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (70/30)  
Hexane/Ethanol + 0.1% TFA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 227 nm  
**k':** 0.30  
 **$\alpha$ :** 4.35  
**CAS #:** 64285-06-9  
**Catalog #:** 1-780101-300,  
1-780201-300



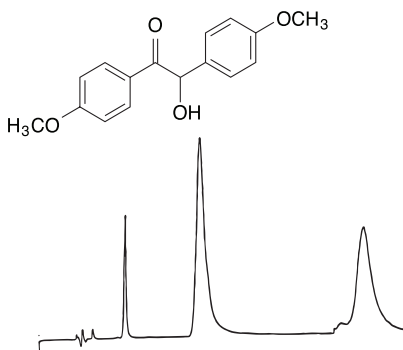
## Anatoxin-A

**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (85/15)  
Hexane/IPA + 0.1% DEA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 227 nm  
**k':** 1.74  
 **$\alpha$ :** 1.40  
**CAS #:** 64285-06-9  
**Catalog #:** 1-784104-300



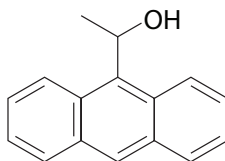
## Anisoin

**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (80/20/0.5)  
Hexane/IPA/HOAc  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**k'**: 3.07  
 **$\alpha$ :** 2.34  
**Catalog #:** 1-780101-300,  
1-780201-300



## 9-Anthrylethanol

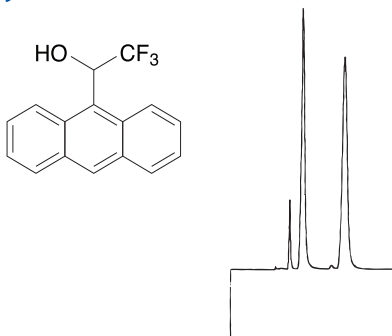
**Column:** (S,S) ULMO,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (95/5)  
Heptane/IPA  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 215 nm  
**Run Time:** 12 min  
**k'**: 1.82  
 **$\alpha$ :** 1.74  
**Reference:** 48  
**Catalog #:** 1-787100-300



*No chromatogram available.*

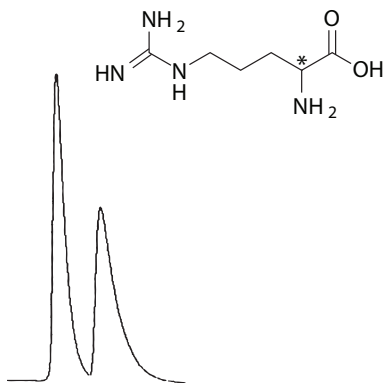
## 9-Anthryl Trifluoromethyl Carbinol

**Column:** (R,R) ULMO,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (95/5)  
Hexane/IPA  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 10 min  
**k'**: 1.36  
 **$\alpha$ :** 2.02  
**Catalog #:** 1-787200-300



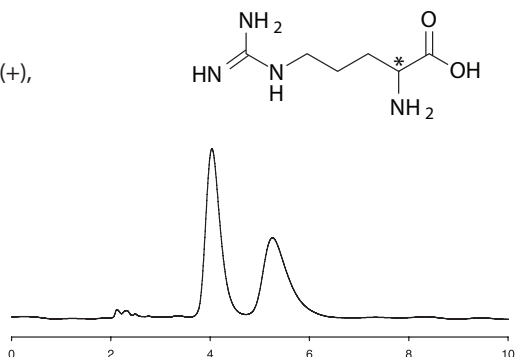
## DL-Arginine

**Column:** ChiroSil,  
5  $\mu\text{m}$ , 15 cm x 4.6 mm  
**Mobile Phase:** (84/16)  
 $\text{CH}_3\text{OH}/\text{H}_2\text{O}$   
+10 mM  $\text{H}_2\text{SO}_4$   
**Flow Rate:** 0.8 mL/min  
**Detection:** UV 210 nm  
**Run Time:** 4.9 min  
**k':** 1.21  
 **$\alpha$ :** 1.64  
**Catalog #:** 1-799001-300,  
1-799101-300



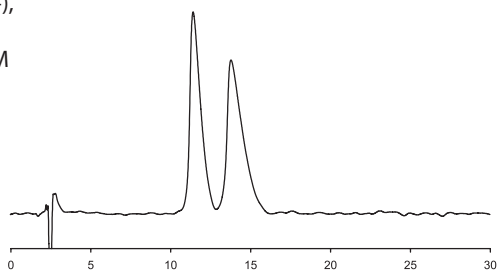
## DL-Arginine

**Column:** ChiroSil ME RCA(+),  
5  $\mu\text{m}$ , 15 cm x 4.6 mm  
**Mobile Phase:** (50/50)  
5 mM  $\text{HClO}_4$  Acid/MeOH  
**Flow Rate:** 0.5 mL/min  
**Detection:** UV 210 nm  
**Temperature:** 10  $^\circ\text{C}$   
**k':** 0.66  
 **$\alpha$ :** 1.40  
**Catalog #:** 1-788001-300



## DL- Asparagine

**Column:** ChiroSil ME RCA(+),  
5  $\mu\text{m}$ , 15 cm x 4.6 mm  
**Mobile Phase:** (20/80) 5mM  
Sulfonic Acid/MeOH  
**Flow Rate:** 0.8 mL/min  
**Detection:** UV 210 nm  
**Temperature:** 25  $^\circ\text{C}$   
**k':** 3.63  
 **$\alpha$ :** 1.22  
**Catalog #:** 1-788001-300



## Atenolol

**Column:** Reflect I-Cellulose B,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (60/40/0.1)

Hexane/IPA/DEA

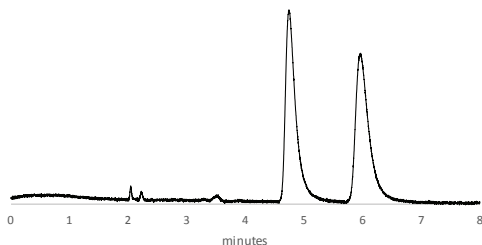
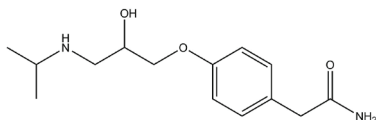
**Flow Rate:** 1.5 mL/min

**Detection:** UV 254 nm

**k':** 1.37

**$\alpha$ :** 1.45

**Catalog #:** 1-592204-300



## Atenolol

**Column:** Reflect C-Cellulose B,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (60/40/0.1)

Hexane/IPA/DEA

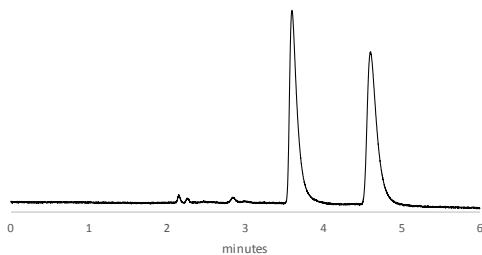
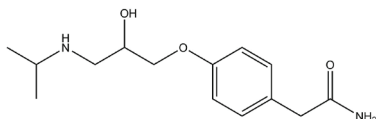
**Flow Rate:** 1.5 mL/min

**Detection:** UV 254 nm

**k':** 0.79

**$\alpha$ :** 1.63

**Catalog #:** 1-590204-300



## Atenolol

**Column:** RegisCell,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (80/20)

CO<sub>2</sub>/CH<sub>3</sub>OH + 0.5% DEA

**Flow Rate:** 4.0 mL/min

**Temperature:** 40 °C

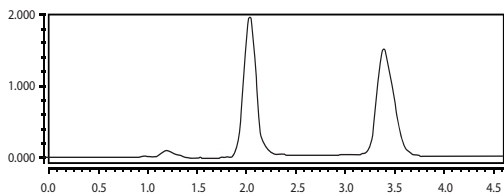
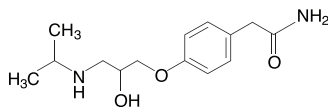
**Pressure:** 150 bar

**Detection:** UV 220 nm

**k':** 1.72

**$\alpha$ :** 2.05

**Catalog #:** 1-784104-300



## Atenolol

**Column:**  $\alpha$ -Burke 2,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (85/10/5)

$\text{CH}_2\text{Cl}_2/\text{EtOH}/\text{MeOH}$   
15 mM  $\text{NH}_4\text{OAc}$

**Flow Rate:** 1.0 mL/min

**Detection:** UV 254 nm

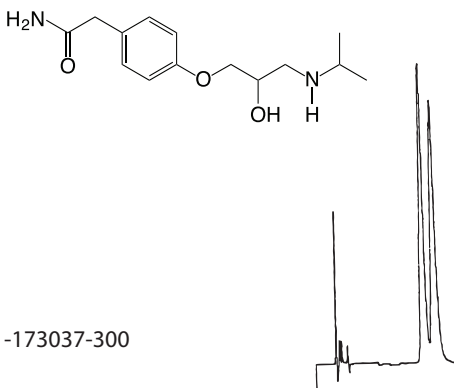
**Run Time:** 16 min

**k':** 4.41

**$\alpha$ :** 1.13

**Reference:** 33

**Catalog #:** 1-735035-300, 1-173037-300



## Atropine

**Column:** Reflect I-Cellulose B,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (65/35/0.1)

Hexane/Chloroform/  
Ethanolamine

**Flow Rate:** 1.5 mL/min

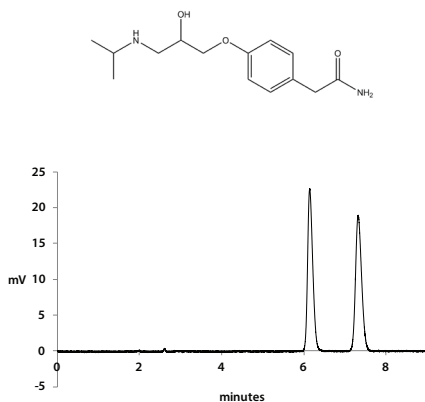
**Detection:** UV 258 nm

**k':** 2.20

**$\alpha$ :** 1.28

**CAS #:** 51-55-8

**Catalog #:** 1-592204-300



## Azelastine

**Column:** (S,S) Whelk-O 2,  
10  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (47/47/6)

Hexane/ $\text{CH}_2\text{Cl}_2$ /Ethanol  
+ 0.1% TEA + 6mM

Ammonium Acetate

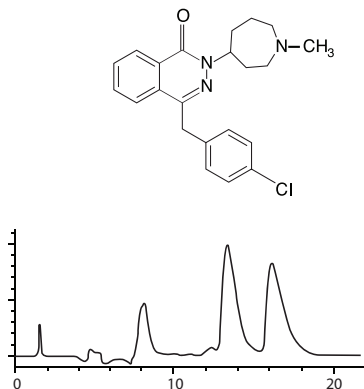
**Flow Rate:** 2.0 mL/min

**Detection:** UV 254 nm

**k':** 8.51

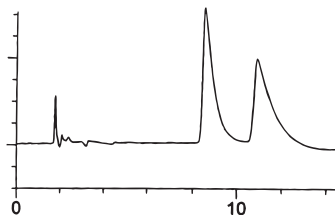
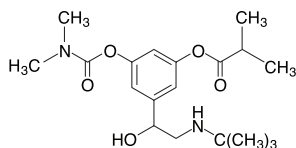
**$\alpha$ :** 1.24

**Catalog #:** 1-786415-300



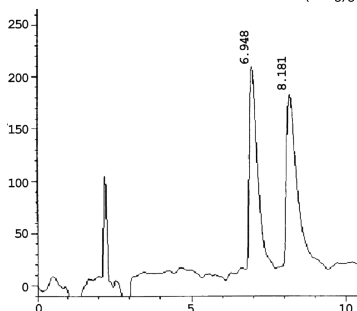
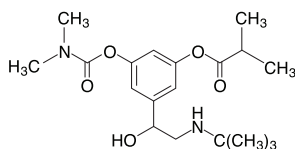
## Bambuterol

**Column:** (R,R)  $\alpha$ -Burke 2,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (40/40/20)  
Hexane/Methylene  
Chloride/Ethanol + 20 mM  
Ammonium Acetate  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**k'**: 3.74  
 **$\alpha$ :** 1.35  
**Catalog #:** 1-735035-300



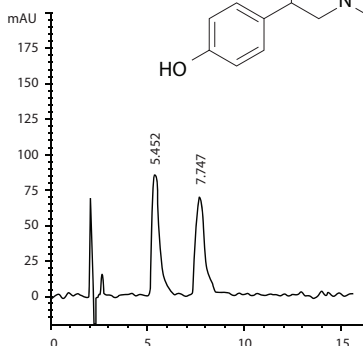
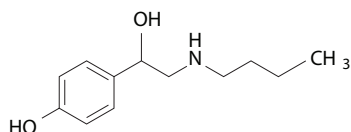
## Bambuterol

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (92/8)  
Hexane/Ethanol + 0.1% DEA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
**k'**: 2.60  
 **$\alpha$ :** 1.25  
**CAS #:** 81732-65-2  
**Catalog #:** 1-783104-300



## Bamethane

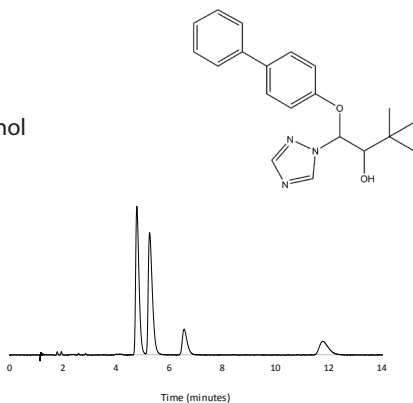
**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (88/12)  
Hexane/IPA + 0.1%TFA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
**k'**: 1.87  
 **$\alpha$ :** 1.65  
**CAS #:** 3703-79-5  
**Catalog #:** 1-783104-300





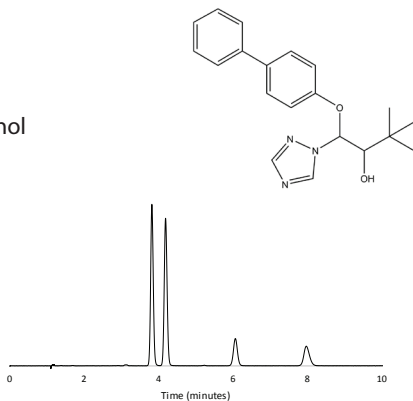
## Baycor

**Column:** Reflect I-Amylose A,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10) CO<sub>2</sub>/Methanol  
**Flow Rate:** 3.0 mL/min  
**Detection:** UV 210 nm  
**Temperature:** 30 °C  
**Pressure:** 150 bar  
**k'**<sub>1</sub>: 4.78  
 **$\alpha$** <sub>1,2</sub>: 1.12  
 **$\alpha$** <sub>2,3</sub>: 1.30  
 **$\alpha$** <sub>3,4</sub>: 1.94  
**CAS #:** 55179-31-2  
**Catalog #:** 1-591204-300



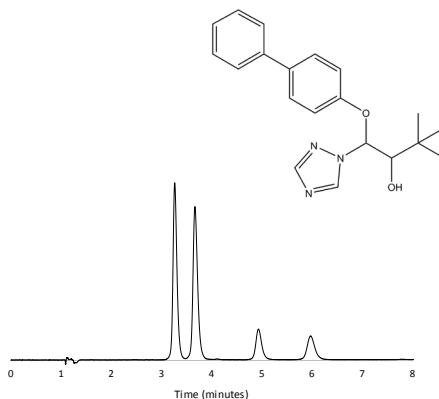
## Baycor

**Column:** Reflect I-Cellulose B,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10) CO<sub>2</sub>/Methanol  
**Flow Rate:** 3.0 mL/min  
**Detection:** UV 210 nm  
**Temperature:** 30 °C  
**Pressure:** 150 bar  
**k'**<sub>1</sub>: 2.81  
 **$\alpha$** <sub>1,2</sub>: 1.13  
 **$\alpha$** <sub>2,3</sub>: 1.59  
 **$\alpha$** <sub>3,4</sub>: 1.38  
**CAS #:** 55179-31-2  
**Catalog #:** 1-592204-300



## Baycor

**Column:** Reflect I-Cellulose J,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (85/15) CO<sub>2</sub>/IPA  
**Flow Rate:** 3.0 mL/min  
**Detection:** UV 210 nm  
**Temperature:** 30 °C  
**Pressure:** 150 bar  
**k'**<sub>1</sub>: 2.26  
 **$\alpha$** <sub>1,2</sub>: 1.18  
 **$\alpha$** <sub>2,3</sub>: 1.47  
 **$\alpha$** <sub>3,4</sub>: 1.26  
**CAS #:** 55179-31-2  
**Catalog #:** 1-594204-300



## Baycor

**Column:** Reflect C-Amylose A,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (85/15)  $\text{CO}_2$ /(25/75)

Methanol/IPA

**Flow Rate:** 3.0 mL/min

**Detection:** UV 210 nm

**Temperature:** 30  $^\circ\text{C}$

**Pressure:** 150 bar

**$k'$ :** 3.83

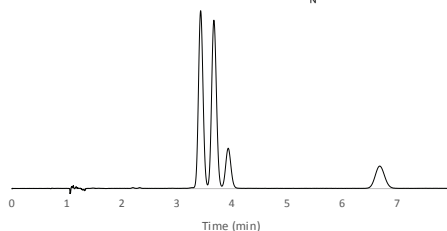
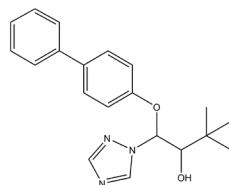
**$\alpha_{1,2}$ :** 1.10

**$\alpha_{2,3}$ :** 1.15

**$\alpha_{3,4}$ :** 1.99

**CAS #:** 55179-31-2

**Catalog #:** 1-580204-300



## Baycor

**Column:** Reflect C-Cellulose B,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (90/10)  $\text{CO}_2$ /Methanol

**Flow Rate:** 3.0 mL/min

**Detection:** UV 210 nm

**Temperature:** 30  $^\circ\text{C}$

**Pressure:** 150 bar

**$k'$ :** 1.80

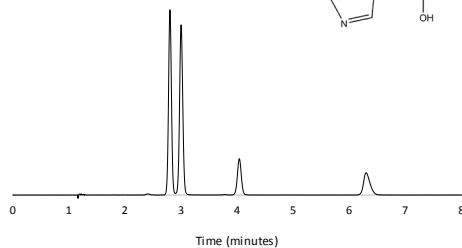
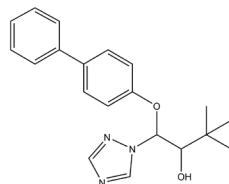
**$\alpha_{1,2}$ :** 1.11

**$\alpha_{2,3}$ :** 1.52

**$\alpha_{3,4}$ :** 1.74

**CAS #:** 55179-31-2

**Catalog #:** 1-590204-300



## Baytan

**Column:** Reflect I-Amylose A,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (80/20)  $\text{CO}_2$ /IPA

**Flow Rate:** 3.0 mL/min

**Detection:** UV 210 nm

**Temperature:** 30  $^\circ\text{C}$

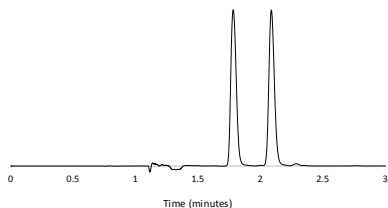
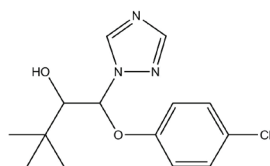
**Pressure:** 150 bar

**$k'$ :** 0.78

**$\alpha_{1,2}$ :** 1.39

**CAS #:** 55219-65-3

**Catalog #:** 1-592204-300



## Baytan

**Column:** Reflect C-Cellulose B,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (95/5)  $\text{CO}_2$ /  
Methanol

**Flow Rate:** 3.0 mL/min

**Detection:** UV 210 nm

**Temperature:** 30  $^\circ\text{C}$

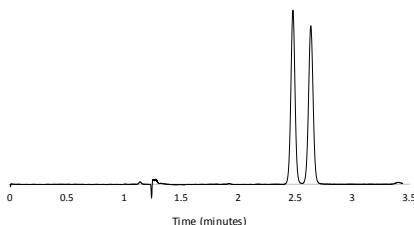
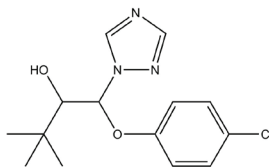
**Pressure:** 150 bar

**$k'$ :** 1.47

**$\alpha_{1,3}$ :** 1.11

**CAS #:** 55219-65-3

**Catalog #:** 1-590204-300



## Baytan

**Column:** RegisPack,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (95/5)  
Hexane/Ethanol

**Flow Rate:** 2.0 mL/min

**Detection:** UV 220 nm

**$k'_1$ :** 2.73

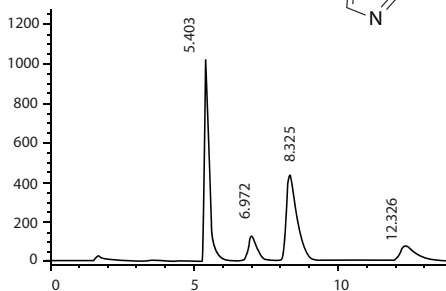
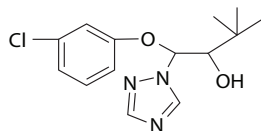
**$k'_2$ :** 3.81

**$\alpha_{1,3}$ :** 1.74

**$\alpha_{2,4}$ :** 1.97

**CAS #:** 55219-65-3

**Catalog #:** 1-783104-300



## Benalaxyl

**Column:** (S,S) Whelk-O 1,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (70/30)  
Hexane/IPA

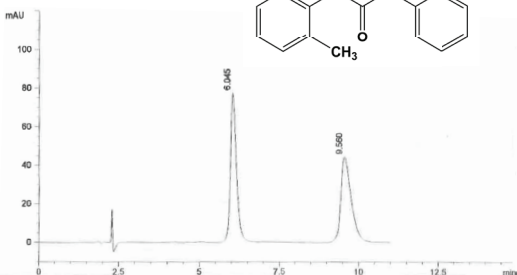
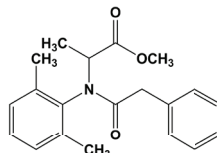
**Flow Rate:** 1.5 mL/min

**Detection:** UV 254 nm

**$k'_1$ :** 2.18

**$\alpha$ :** 1.85

**Catalog #:** 1-780101-300



## Benalaxyl

**Column:** (S,S) Whelk-O 1,

3.5  $\mu\text{m}$ , 15 cm x 4.6 mm

**Mobile Phase:** (70/30)

Hexane/IPA

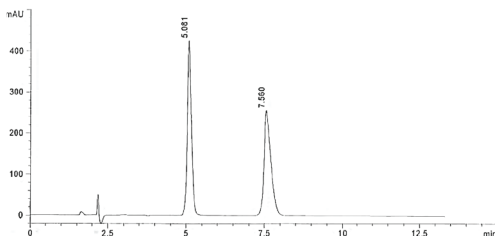
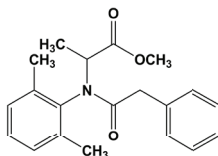
**Flow Rate:** 1.0 mL/min

**Detection:** UV 254 nm

**k':** 1.92

**$\alpha_1$ :** 1.74

**Catalog #:** 1-780122-300



## Bendroflumethiazide

**Column:** Whelk-O 1,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (50/50)

Hexane/IPA

**Flow Rate:** 1.0 mL/min

**Detection:** UV 220 nm

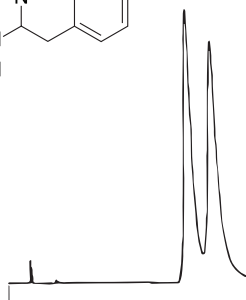
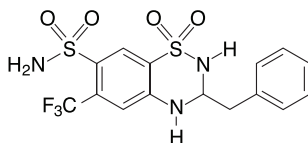
**k':** 7.89

**$\alpha$ :** 1.16

**Run Time:** 30 min

**Catalog #:** 1-780101-300,

1-780201-300



## Bendroflumethiazide

**Column:** (R,R) ULMO,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (75/25)

Hexane/IPA

**Flow Rate:** 1.0 mL/min

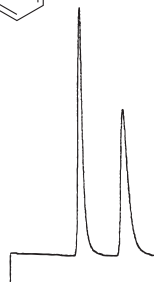
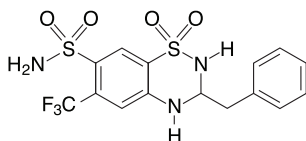
**Detection:** UV 254 nm

**Run Time:** 18 min

**k':** 2.99

**$\alpha$ :** 1.84

**Catalog #:** 1-787200-300



## Benfluorex

**Column:** Reflect C-Cellulose B,

5  $\mu$ m, 25 cm x 4.6 mm

**Mobile Phase:** (95/5/0.1) Hexane/  
IPA/DEA

**Flow Rate:** 1.5 mL/min

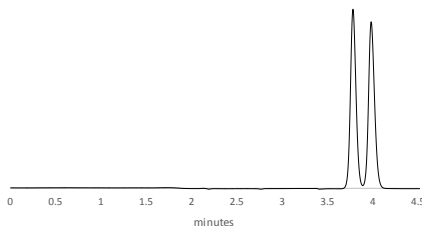
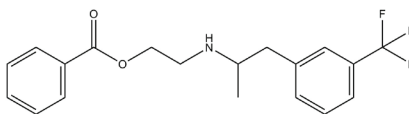
**Detection:** UV 254 nm

**k':** 0.89

**$\alpha$ :** 1.11

**CAS #:** 23602-78-0

**Catalog #:** 1-590204-300



## Benzoin

**Column:** (S,S) Whelk-O 1,

5  $\mu$ m, 25 cm x 4.6 mm

**Mobile Phase:** (60/40)  
Hexane/IPA

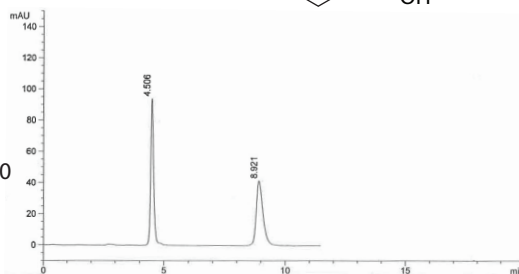
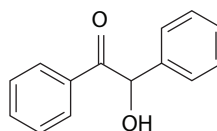
**Flow Rate:** 1.5 mL/min

**Detection:** UV 254 nm

**k':** 1.33

**$\alpha$ :** 2.71

**Catalog #:** 1-780101-300



## Benzoin

**Column:** Whelk-O 1,

5  $\mu$ m, 25 cm x 4.6 mm

**Mobile Phase:** (80/20/0.5)

Hexane/IPA/HOAc

**Flow Rate:** 1.0 mL/min

**Detection:** UV 254 nm

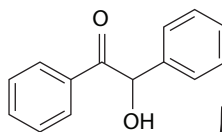
**k':** 0.86

**$\alpha$ :** 1.97

**Reference:** 7

**Catalog #:** 1-780101-300,

1-780201-300



## Benzoin

**Column:** (S,S) Whelk-O 1,

3.5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (60/40)

Hexane/IPA

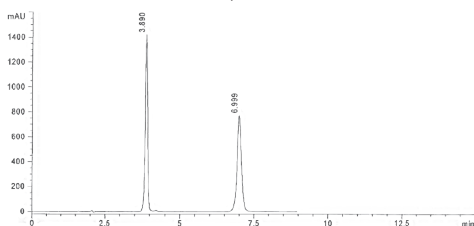
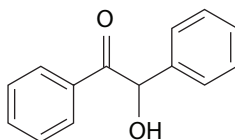
**Flow Rate:** 1.0 mL/min

**Detection:** UV 254 nm

**k':** 2.44

**$\alpha$ :** 1.24

**Catalog #:** 1-780101-300



## Benzoin

**Column:** Reflect I-Amylose A,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (80/20)

Hexane/IPA

**Flow Rate:** 1.5 mL/min

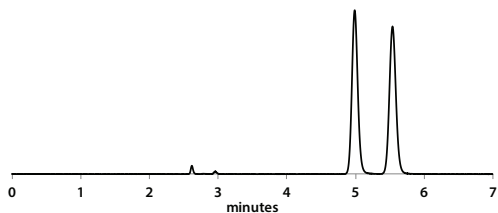
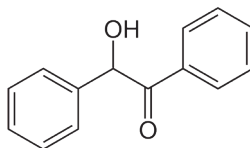
**Detection:** UV 254 nm

**k':** 1.49

**$\alpha$ :** 1.18

**CAS #:** 119-53-9

**Catalog #:** 1-591204-300



## Benzoin

**Column:** Reflect I-Cellulose B,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (70/30)

Hexane/IPA

**Flow Rate:** 1.5 mL/min

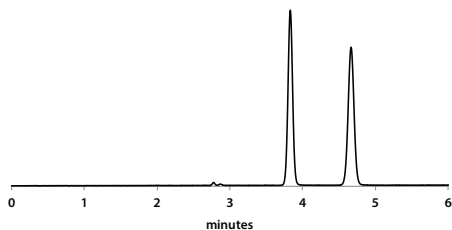
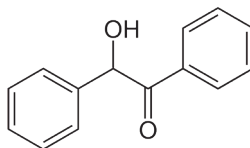
**Detection:** UV 254 nm

**k':** 0.91

**$\alpha$ :** 1.46

**CAS #:** 119-53-9

**Catalog #:** 1-592204-300



## Benzoin

**Column:** Reflect C-Amylose A,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (80/20)

Hexane/IPA

**Flow Rate:** 1.5 mL/min

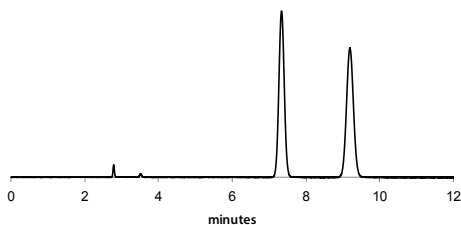
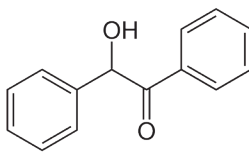
**Detection:** UV 254 nm

**k':** 2.66

**$\alpha$ :** 1.35

**CAS #:** 119-53-9

**Catalog #:** 1-580204-300



## Benzoin

**Column:** Reflect C-Cellulose B,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (80/20)

Hexane/IPA

**Flow Rate:** 1.5 mL/min

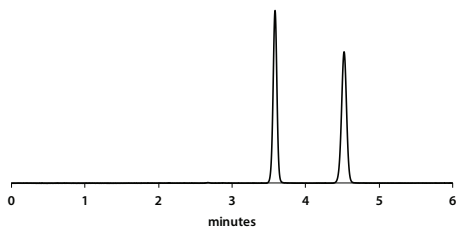
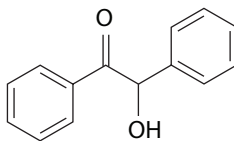
**Detection:** UV 254 nm

**k':** 0.79

**$\alpha$ :** 1.59

**CAS #:** 119-53-9

**Catalog #:** 1-590204-300



## Benzoin

**Column:** (S,S) Whelk-O 1,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (75/25)

CO<sub>2</sub>/Ethanol

**Flow Rate:** 4.0 mL/min

**Temperature:** 40 °C

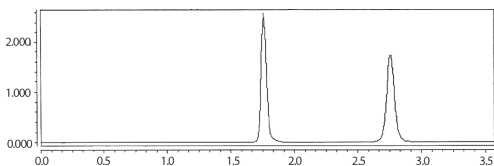
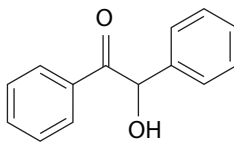
**Pressure:** 125 bar

**Detection:** UV 254 nm

**k':** 1.34

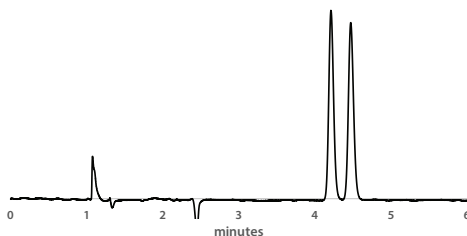
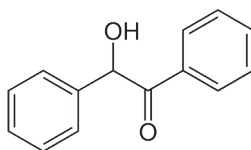
**$\alpha$ :** 1.99

**Catalog #:** 1-780101-300



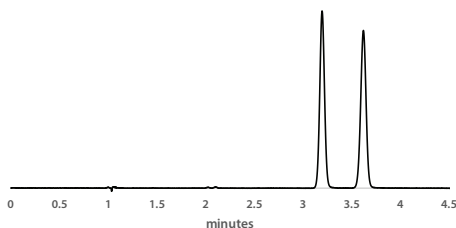
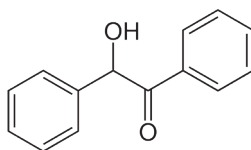
## Benzoin

**Column:** Reflect I-Amylose A,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  $\text{CO}_2$ /IPA  
**Flow Rate:** 3.0 mL/min  
**Temperature:** 40  $^\circ\text{C}$   
**Pressure:** 150 bar  
**Detection:** UV 210 nm  
 **$k'$ :** 3.20  
 **$\alpha$ :** 1.08  
**CAS #:** 119-53-9  
**Catalog #:** 1-591204-300



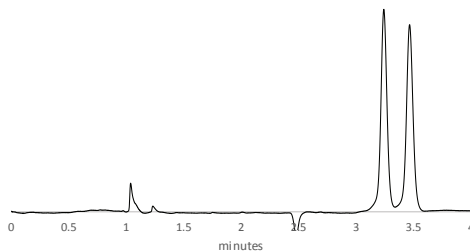
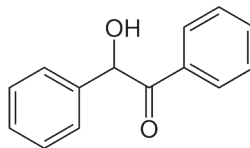
## Benzoin

**Column:** Reflect I-Cellulose B,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  $\text{CO}_2$ /  
Methanol  
**Flow Rate:** 3.0 mL/min  
**Temperature:** 40  $^\circ\text{C}$   
**Pressure:** 150 bar  
**Detection:** UV 210 nm  
 **$k'$ :** 2.19  
 **$\alpha$ :** 1.19  
**CAS #:** 119-53-9  
**Catalog #:** 1-592204-300



## Benzoin

**Column:** Reflect I-Cellulose J,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  $\text{CO}_2$ /IPA  
**Flow Rate:** 3.0 mL/min  
**Temperature:** 40  $^\circ\text{C}$   
**Pressure:** 150 bar  
**Detection:** UV 210 nm  
 **$k'$ :** 2.23  
 **$\alpha$ :** 1.10  
**CAS #:** 119-53-9  
**Catalog #:** 1-594204-300





## Benzoin

**Column:** Reflect C-Amylose A,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (80/20)  $\text{CO}_2$ /  
Methanol

**Flow Rate:** 3.0 mL/min

**Temperature:** 40  $^\circ\text{C}$

**Pressure:** 150 bar

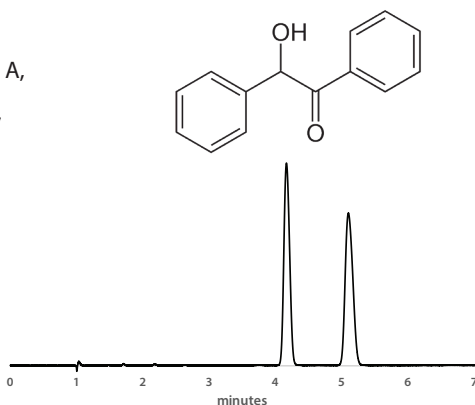
**Detection:** UV 210 nm

**$k'$ :** 3.19

**$\alpha$ :** 1.28

**CAS #:** 119-53-9

**Catalog #:** 1-580204-300



## Benzoin

**Column:** Reflect C-Cellulose B,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (90/10)  $\text{CO}_2$ /  
Methanol

**Flow Rate:** 3.0 mL/min

**Temperature:** 40  $^\circ\text{C}$

**Pressure:** 150 bar

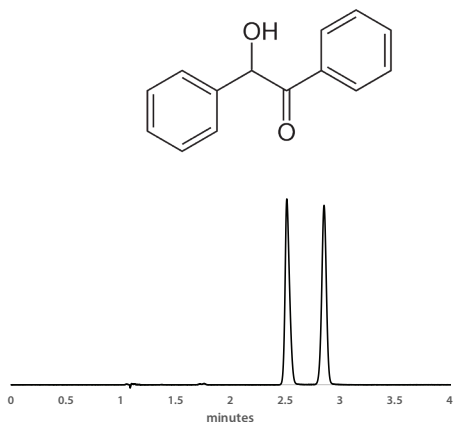
**Detection:** UV 210 nm

**$k'$ :** 1.51

**$\alpha$ :** 1.22

**CAS #:** 119-53-9

**Catalog #:** 1-590204-300



## Benzoin

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (80/20)  
 $\text{CO}_2/\text{CH}_3\text{OH}$

**Flow Rate:** 4.0 mL/min

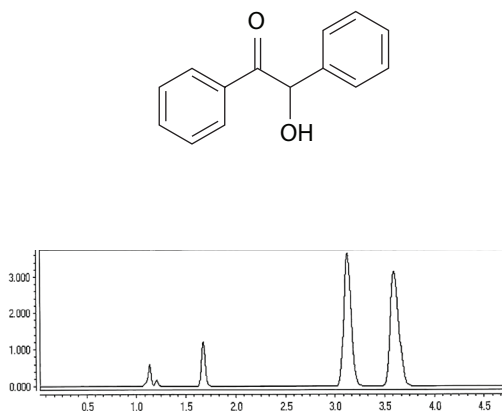
**Temperature:** 40  $^\circ\text{C}$

**Pressure:** 150 bar  
**Detection:** UV 254 nm

**$k'$ :** 3.17

**$\alpha$ :** 1.20

**Catalog #:** 1-783104-300



## 1,3-Benzothiazoles

*1-(1,3-benzothiazol-2-yl)-3-(3-methylbenzyl)-2,5-pyrrolidinedione*

**Column:** RegisPack, 5  $\mu\text{m}$ ,  
25 cm x 4.6 mm

**Mobile Phase:** (60/40)  
Hexane/Ethanol

**Flow Rate:** 1.5 mL/min

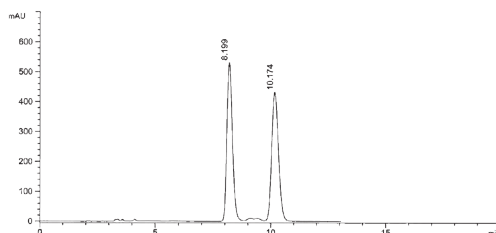
**Detection:** UV 220 nm

**k'**: 3.32

**k'**: 4.35

**$\alpha$** : 1.31

**Catalog #:** 1-783104-300



## 1,3-Benzothiazoles

*1-(1,3-benzothiazol-2-yl)-3-(3-methylbenzyl)-2,5-pyrrolidinedione*

**Column:** RegisPack, 5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (50/50)  
 $\text{CO}_2/\text{CH}_3\text{OH}$

**Flow Rate:** 4.0 mL/min

**Temperature:** 40  $^\circ\text{C}$

**Pressure:** 126 bar

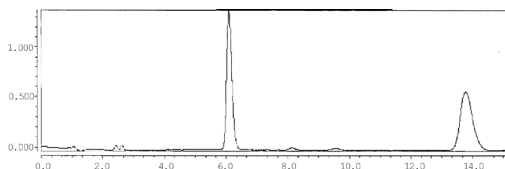
**Detection:** UV 220 nm

**k'**: 7.13

**k'**: 17.37

**$\alpha$** : 2.44

**Catalog #:** 1-783104-300



## 1,3-Benzothiazoles

*5-(1,3-benzothiazol-2-ylamino)-3-cyclohexyl-5-(trifluoromethyl)-2,4-imidazolidinedione*

**Column:** (S,S) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (90/10)  
Hexane/IPA

**Flow Rate:** 1.5 mL/min

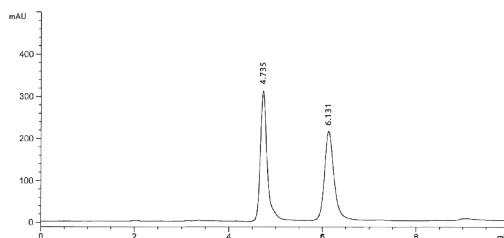
**Detection:** UV 220 nm

**k'**: 1.49

**k'**: 2.23

**$\alpha$** : 1.50

**Catalog #:** 1-780101-300



## 1,3-Benzothiazoles

*5-(1,3-benzothiazol-2-ylamino)-3-cyclohexyl-5-(trifluoromethyl)-2,4-imidazolidinedione*

**Column:** (S,S) Whelk-O 1, 5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (80/20) CO<sub>2</sub>/Ethanol

**Flow Rate:** 4.0 mL/min

**Temperature:** 40 °C

**Pressure:** 125 bar

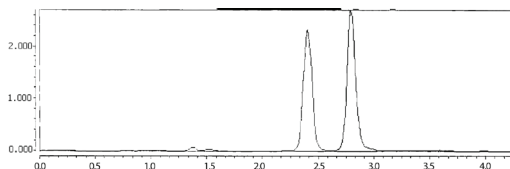
**Detection:** UV 254 nm

**k'**<sub>1</sub>: 2.21

**k'**<sub>2</sub>: 2.73

**$\alpha$** : 1.24

**Catalog #:** 1-780101-300



## 1,3-Benzothiazoles

*5-(1,3-benzothiazol-2-ylamino)-3-cyclohexyl-5-(trifluoromethyl)-2,4-imidazolidinedione*

**Column:** RegisPack, 5  $\mu\text{m}$ ,  
25 cm x 4.6 mm

**Mobile Phase:** (85/15)

Hexane/Ethanol

**Flow Rate:** 1.5 mL/min

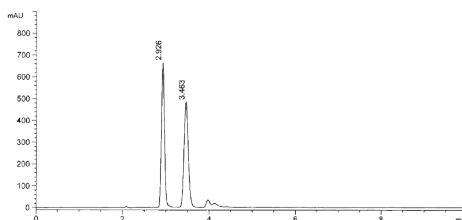
**Detection:** UV 220 nm

**k'**<sub>1</sub>: 0.54

**k'**<sub>2</sub>: 0.82

**$\alpha$** : 1.52

**Catalog #:** 1-783104-300



## 1,3-Benzothiazoles

*5-(1,3-benzothiazol-2-ylamino)-3-cyclohexyl-5-(trifluoromethyl)-2,4-imidazolidinedione*

**Column:** RegisPack, 5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (80/20)

CO<sub>2</sub>/Ethanol

**Flow Rate:** 4.0 mL/min

**Temperature:** 40 °C

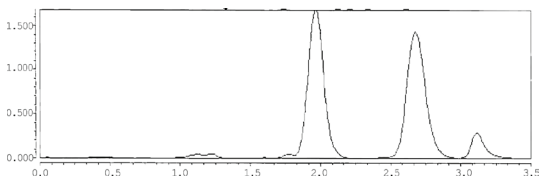
**Pressure:** 123 bar

**Detection:** UV 254 nm

**k'**<sub>1</sub>: 1.63

**k'**<sub>2</sub>: 2.57

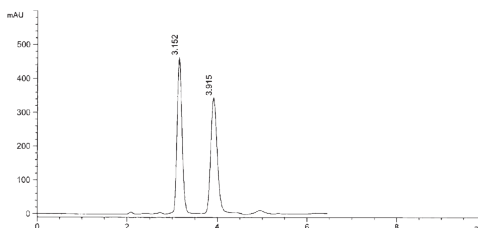
**$\alpha$** : 1.58



## 1,3-Benzothiazoles

*5-(1,3-benzothiazol-2-ylamino)-3-cyclohexyl-5-(trifluoromethyl)-2,4-imidazolidinedione*

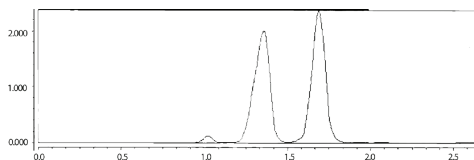
**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
Hexane/IPA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
**k'**: 0.66  
**k'**: 1.06  
 **$\alpha$ :** 1.61  
**Catalog #:** 1-784104-300



## 1,3-Benzothiazoles

*5-(1,3-benzothiazol-2-ylamino)-3-cyclohexyl-5-(trifluoromethyl)-2,4-imidazolidinedione*

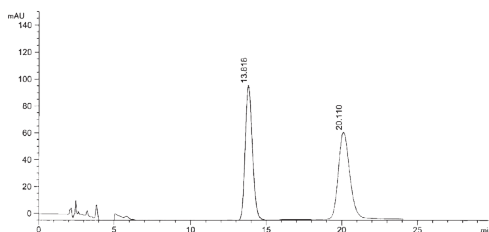
**Column:** RegisCell, 5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (80/20) CO<sub>2</sub>/Ethanol  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40 °C  
**Pressure:** 126 bar  
**Detection:** UV 254 nm  
**k'**: 0.81  
**k'**: 1.25  
 **$\alpha$ :** 1.54  
**Catalog #:** 1-784104-300



## 1,3-Benzothiazoles

*3-[4-(1,3-benzothiazol-2-yl)-1-piperazinyl]-1-(3-fluorophenyl)-2,5-pyrrolidinedione*

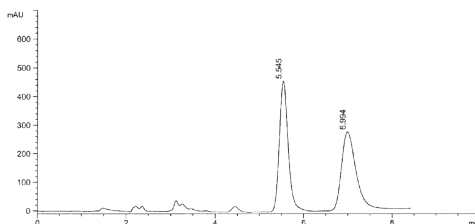
**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (50/50)  
Hexane/Ethanol  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
**k'**: 6.27  
**k'**: 9.58  
 **$\alpha$ :** 1.53  
**Catalog #:** 1-783104-300



## 1,3-Benzothiazoles

*3-[4-(1,3-benzothiazol-2-yl)-1-piperazinyl]-1-(3-fluorophenyl)-2,5-pyrrolidinedione*

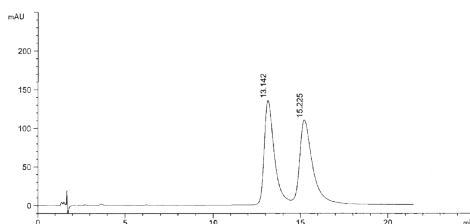
**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** 100%  
Methanol  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
**k'1:** 1.92  
**k'2:** 2.68  
 **$\alpha$ :** 1.40  
**Catalog #:** 1-784104-300



## 1,3-Benzothiazoles

*ethyl 1-[2-(1,3-benzothiazol-2-ylamino)-2-oxoethyl]piperidine-3-carboxylate*

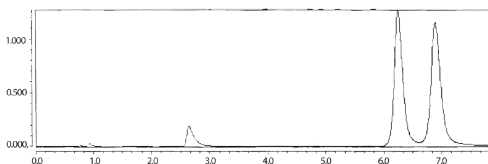
**Column:** (S,S) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (65/35)  
Hexane/IPA  
**Flow Rate:** 2.0 mL/min  
**Detection:** UV 220 nm  
**k'1:** 8.06  
**k'2:** 9.52  
 **$\alpha$ :** 1.18  
**Catalog #:** 1-780101-300



## 1,3-Benzothiazoles

*ethyl 1-[2-(1,3-benzothiazol-2-ylamino)-2-oxoethyl]piperidine-3-carboxylate*

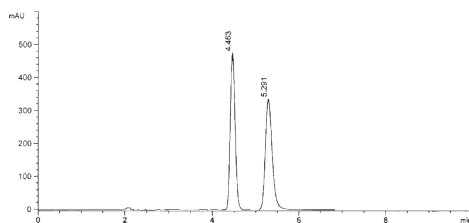
**Column:** (S,S) Whelk-O 1, 5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (75/25)  
CO<sub>2</sub>/CH<sub>3</sub>OH  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40 °C  
**Pressure:** 125 bar  
**Detection:** UV 220 nm  
**k'1:** 7.33  
**k'2:** 8.19  
 **$\alpha$ :** 1.12  
**Catalog #:** 1-780101-300



## 1,3-Benzothiazoles

*ethyl 1-[2-(1,3-benzothiazol-2-ylamino)-2-oxoethyl]piperidine-3-carboxylate*

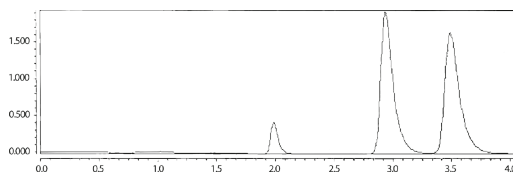
**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (70/30)  
Hexane/Ethanol  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
**k'1:** 1.35  
**k'2:** 1.78  
 **$\alpha$ :** 1.32  
**Catalog #:** 1-783104-300



## 1,3-Benzothiazoles

*ethyl 1-[2-(1,3-benzothiazol-2-ylamino)-2-oxoethyl]piperidine-3-carboxylate*

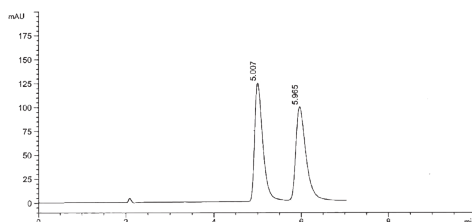
**Column:** RegisPack, 5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (70/30)  
 $\text{CO}_2/\text{CH}_3\text{OH}$   
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40  $^\circ\text{C}$   
**Pressure:** 125 bar  
**Detection:** UV 220 nm  
**k'1:** 2.92  
**k'2:** 3.62  
 **$\alpha$ :** 1.25  
**Catalog #:** 1-783104-300



## 1,3-Benzothiazoles

*ethyl 1-[2-(1,3-benzothiazol-2-ylamino)-2-oxoethyl]piperidine-3-carboxylate*

**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
Hexane/Ethanol  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
**k'1:** 1.64  
**k'2:** 2.14  
 **$\alpha$ :** 1.30  
**Catalog #:** 1-784104-300



## 1,3-Benzothiazoles

*ethyl 1-[2-(1,3-benzothiazol-2-ylamino)-2-oxoethyl]piperidine-3-carboxylate*

**Column:** RegisCell, 5  $\mu$ m, 25 cm x 4.6 mm

**Mobile Phase:** (85/15)

CO<sub>2</sub>/CH<sub>3</sub>OH

**Flow Rate:** 4.0 mL/min

**Temperature:** 40 °C

**Pressure:** 125 bar

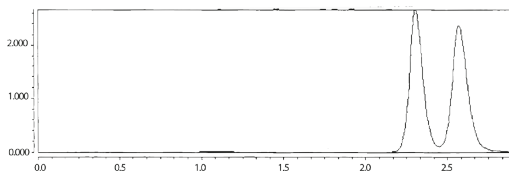
**Detection:** UV 220 nm

**k':** 2.08

**k':** 2.43

**$\alpha$ :** 1.17

**Catalog #:** 1-784104-300



## 1,3-Benzothiazoles

*N-1,3-benzothiazol-2-yl-1-butyl-5-oxopyrrolidine-3-carboxamide*

**Column:** RegisCell,

5  $\mu$ m, 25 cm x 4.6 mm

**Mobile Phase:** (70/30)

Hexane/IPA

**Flow Rate:** 1.5 mL/min

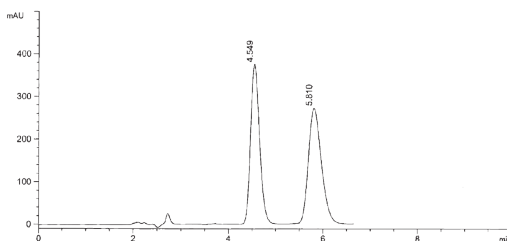
**Detection:** UV 220 nm

**k':** 1.39

**k':** 2.06

**$\alpha$ :** 1.48

**Catalog #:** 1-784104-300



## 1-(4-Benzyloxy) phenyl Ethanol

**Column:** (S,S) ULMO,

5  $\mu$ m, 25 cm x 4.6 mm

**Mobile Phase:** (98.5/1.5)

n-Heptane/1,2-

Dimethoxyethane

**Flow Rate:** 2.0 mL/min

**Detection:** UV 254 nm

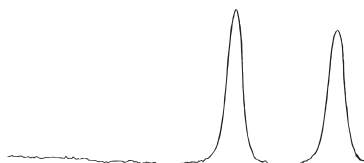
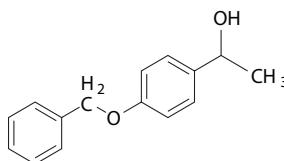
**Run Time:** 11.0 min

**k':** 5.21

**$\alpha$ :** 1.21

**Reference:** 55

**Catalog #:** 1-787100-300



## β-Blocker

**Column:** (S,S) DACH-DNB,

5 μm, 25 cm x 4.6 mm

**Mobile Phase:** (90/10)

CH<sub>2</sub>Cl<sub>2</sub>/IPA

**Flow Rate:** 1.0 mL/min

**Detection:** UV 254 nm

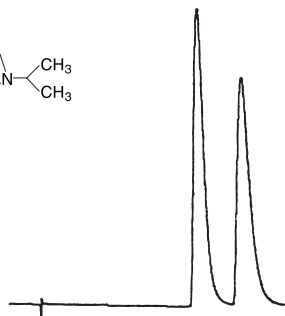
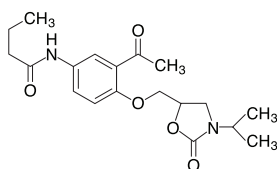
**Run Time:** 18.0 min

**k':** 4.52

**α:** 1.29

**Reference:** 54

**Catalog #:** 1-788201-300



## β-Blocker

**Column:** (S,S) DACH-DNB,

5 μm, 25 cm x 4.6 mm

**Mobile Phase:** (92/8)

CH<sub>2</sub>Cl<sub>2</sub>/IPA

**Flow Rate:** 1.0 mL/min

**Detection:** UV 254 nm

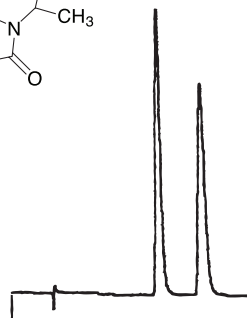
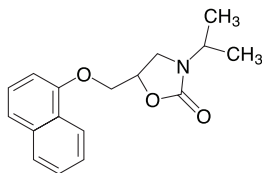
**Run Time:** 11.0 min

**k':** 2.27

**α:** 1.42

**Reference:** 54

**Catalog #:** 1-788201-300



## Beta Naphthyl Methyl Carbinol

**Column:** (R,R) ULMO,

5 μm, 25 cm x 4.6 mm

**Mobile Phase:** (97/3)

Hexane/IPA

**Flow Rate:** 1.0 mL/min

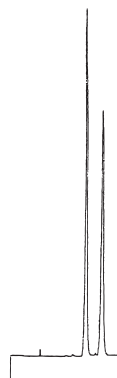
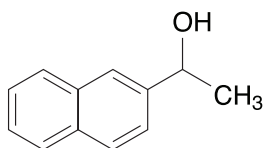
**Detection:** UV 254 nm

**Run Time:** 9 min

**k':** 1.64

**α:** 1.34

**Catalog #:** 1-787200-300





## Betaxolol

**Column:**  $\alpha$ -Burke 2,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (85/10/5)  
 $\text{CH}_2\text{Cl}_2/\text{EtOH}/\text{MeOH}$   
10 mM  $\text{NH}_4\text{OAc}$

**Flow Rate:** 1.0 mL/min

**Detection:** UV 254 nm

**Run Time:** 11 min

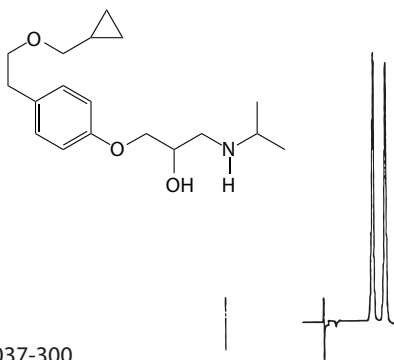
4.6 mm x 25 cm

**k':** 2.36

**$\alpha$ :** 1.25

**Reference:** 30

**Catalog #:** 1-735035-300, 1-735037-300



## Bicalutamide

**Column:** RegisPack,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (70/30)

Hexane/Ethanol

**Flow Rate:** 1.5 mL/min

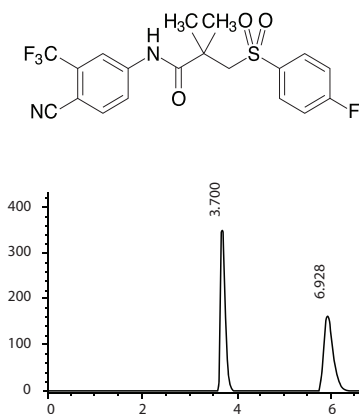
**Detection:** UV 254 nm

**k':** 0.91

**$\alpha$ :** 2.28

**CAS #:** 90357-06-5

**Catalog #:** 1-783104-300



## Bifonazole

**Column:** Reflect C-Amylose A,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Flow Rate:** (80/20) Hexane/

Ethanol

**Flow Rate:** 1.5 mL/min

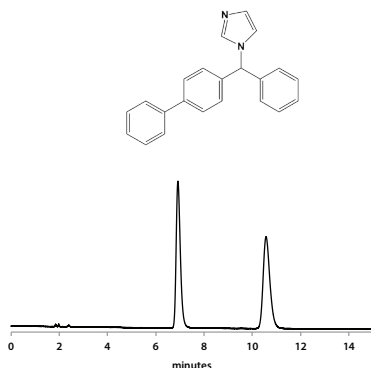
**Detection:** UV 228 nm

**k':** 2.46

**$\alpha$ :** 1.75

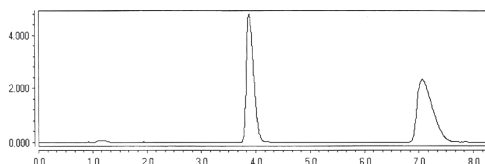
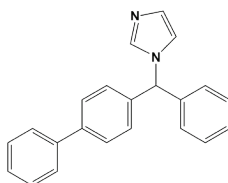
**CAS #:** 60628-96-8

**Catalog #:** 1-580204-300



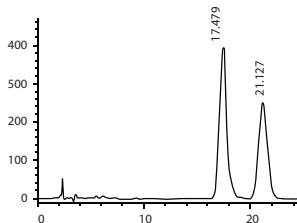
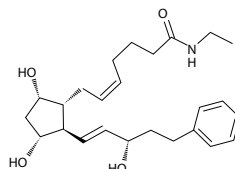
## Bifonazole

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (65/35)  $\text{CO}_2$ /  
 $\text{CH}_3\text{OH}$  + 0.5% DEA  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40  $^\circ\text{C}$   
**Pressure:** 125 bar  
**Detection:** UV 220 nm  
 **$k'$ :** 4.17  
 **$\alpha$ :** 2.02  
**Catalog #:** 1-783104-300



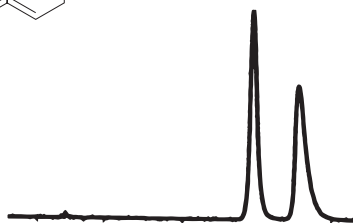
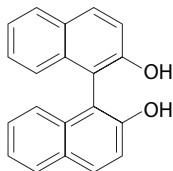
## Bimatoprost

**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (95/2.5/2.5)  
Hexane/Ethanol/Methanol  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 210 nm  
 **$k'$ :** 8.06  
 **$\alpha$ :** 1.23  
**CAS #:** 155206-00-1  
**Catalog #:** 1-784104-300



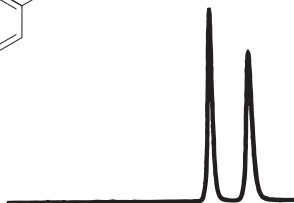
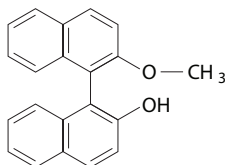
## 1,1'-Bi-2-Naphthol

**Column:** (S,S) ULMO,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (98/2)  
Hexane/IPA + 0.1% TFA  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 18.0 min  
 **$k'$ :** 4.84  
 **$\alpha$ :** 1.24  
**Reference:** 43  
**Catalog #:** 1-787100-300



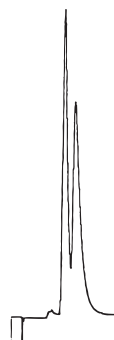
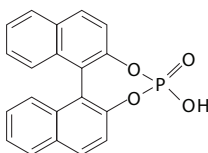
## 1,1'-Binaphthol Monomethylether

**Column:** (S,S) ULMO,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (98/2)  
Hexane/IPA + 0.1% TFA  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 11.0 min  
**k':** 2.23  
 **$\alpha$ :** 1.28  
**Reference:** 43  
**Catalog #:** 1-787100-300



## 1,1'-binaphthyl-2,2'-diylhydrogen phosphate

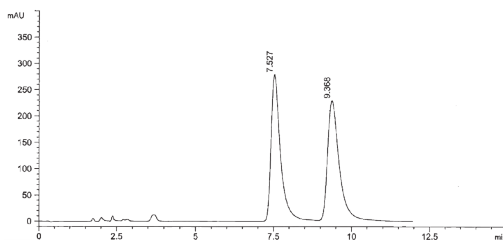
**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (56/44)  
 $\text{H}_2\text{O}/\text{MeOH}$  + 0.1% HOAc  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 18 min  
**k':** 4.46  
 **$\alpha$ :** 1.27  
**Catalog #:** 1-780101-300, 1-780201-300



## Biphenyls

*2-(4-biphenyloxy)-N-(3-pyridinylmethyl)propanamide*

**Column:** (S,S) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (50/50)  
Hexane/Ethanol  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
**k'1:** 2.96  
**k'2:** 3.93  
 **$\alpha$ :** 1.33  
**Catalog #:** 1-780101-300



## Biphenyls

*2-(4-biphenyloxy)-N-(3-pyridinylmethyl)propanamide*

**Column:** (S,S) Whelk-O 1, 5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (65/35)

CO<sub>2</sub>/Ethanol

**Flow Rate:** 4.0 mL/min

**Temperature:** 40 °C

**Pressure:** 125 bar

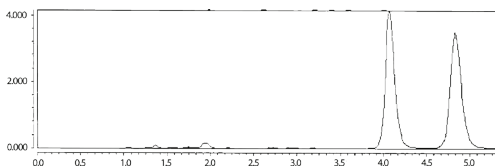
**Detection:** UV 254 nm

**k'<sub>1</sub>:** 4.43

**k'<sub>2</sub>:** 5.43

**$\alpha$ :** 1.23

**Catalog #:** 1-780101-300



## Biphenyls

*2-(4-biphenyloxy)-N-(3-pyridinylmethyl)propanamide*

**Column:** RegisPack,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (70/30)

Hexane/IPA

**Flow Rate:** 1.5 mL/min

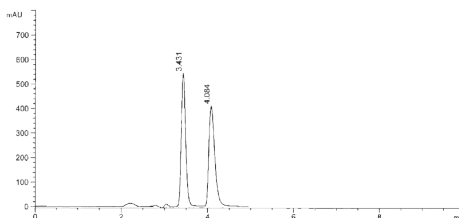
**Detection:** UV 220 nm

**k'<sub>1</sub>:** 0.81

**k'<sub>2</sub>:** 1.15

**$\alpha$ :** 1.42

**Catalog #:** 1-783104-300



## Biphenyls

*2-(4-biphenyloxy)-N-(3-pyridinylmethyl)propanamide*

**Column:** RegisPack, 5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (65/35)

CO<sub>2</sub>/CH<sub>3</sub>OH

**Flow Rate:** 4.0 mL/min

**Temperature:** 40 °C

**Pressure:** 124 bar

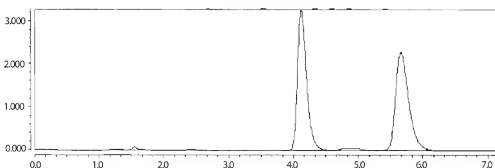
**Detection:** UV 254 nm

**k'<sub>1</sub>:** 4.51

**k'<sub>2</sub>:** 6.55

**$\alpha$ :** 1.45

**Catalog #:** 1-783104-300



## Biphenyls

*2-(4-biphenyloxy)-N-(3-pyridinylmethyl)propanamide*

**Column:** RegisCell, 5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (65/35)

$\text{CO}_2/\text{CH}_3\text{OH}$

**Flow Rate:** 4.0 mL/min

**Temperature:** 40  $^\circ\text{C}$

**Pressure:** 125 bar

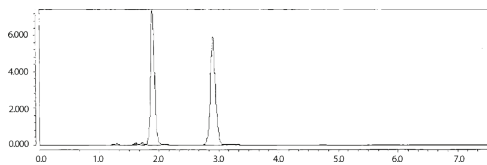
**Detection:** UV 254 nm

**$k'_1$ :** 1.53

**$k'_2$ :** 2.87

**$\alpha$ :** 1.88

**Catalog #:** 1-784104-300



## Biphenyls

*N-2-biphenyl-2-(2-methoxyphenoxy)propanamide*

**Column:** RegisPack,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (60/40)

Hexane/IPA

**Flow Rate:** 1.5 mL/min

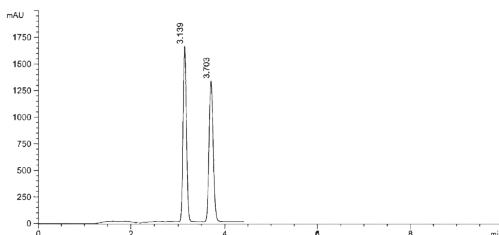
**Detection:** UV 220 nm

**$k'_1$ :** 0.65

**$k'_2$ :** 0.95

**$\alpha$ :** 1.46

**Catalog #:** 1-783104-300



## Biphenyls

*N-2-biphenyl-2-(2-methoxyphenoxy)propanamide*

**Column:** RegisPack, 5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (85/15)

$\text{CO}_2/\text{IPA}$

**Flow Rate:** 4.0 mL/min

**Temperature:** 40  $^\circ\text{C}$

**Pressure:** 124 bar

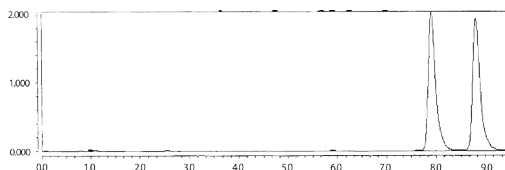
**Detection:** UV 220 nm

**$k'_1$ :** 9.55

**$k'_2$ :** 10.75

**$\alpha$ :** 1.13

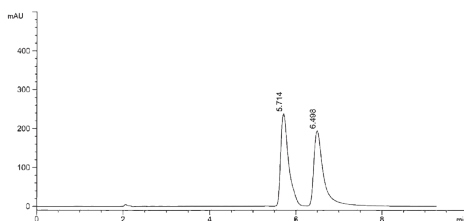
**Catalog #:** 1-783104-300



## Biphenyls

*1-(4-biphenyloxy)-3-(4-morpholinyl)-2-propanol hydrochloride*

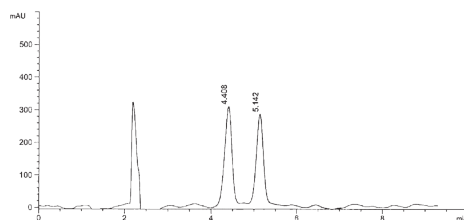
**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (70/30)  
Hexane/Ethanol  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
**k'1:** 2.01  
**k'2:** 2.42  
 **$\alpha$ :** 1.20  
**Catalog #:** 1-783104-300



## Biphenyls

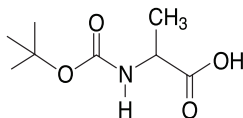
*1-[[3-(2-biphenyloxy)propyl]amino]-2-propanol ethanedioate (salt)*

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (95/5)  
Hexane/Ethanol + 0.1% DEA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
**k'1:** 1.32  
**k'2:** 1.71  
 **$\alpha$ :** 1.30  
**Catalog #:** 1-783104-300



## BOC-Ala

**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (98/2/0.2)  
Hexane/IPA/HOAc  
**Flow Rate:** 1.0 mL/min  
**Detection:** 220 nm  
**Run Time:** 17 min  
**k':** 4.43  
 **$\alpha$ :** 1.09  
**Catalog #:** 1-780101-300,  
1-780201-300



## DL-BPA

**Column:** ChiroSil ME RCA(+),

5  $\mu\text{m}$ , 15 cm x 4.6 mm

**Mobile Phase:** (30/70) 0.01%

Phosphoric Acid/MeOH

**Flow Rate:** 1.0 mL/min

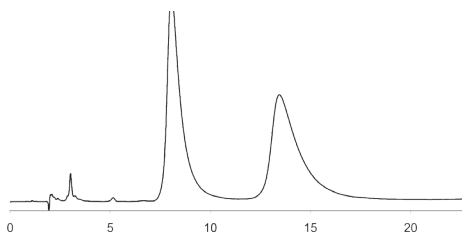
**Detection:** UV 210 nm

**Temperature:** 0  $^{\circ}\text{C}$

**$k'$ :** 3.14

**$\alpha$ :** 1.88

**Catalog #:** 1-788001-300



## Bromacil

*Insecticide*

**Column:** Whelk-O 1, 5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (98/2) Hexane/IPA

**Flow Rate:** 1.0 mL/min

**Detection:** UV 254 nm

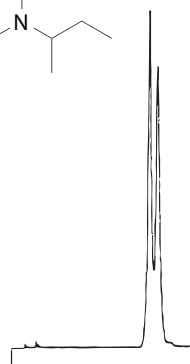
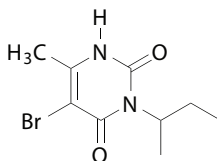
**$k'$ :** 21.43

**$\alpha$ :** 1.07

**Run Time:** 38 min

**Catalog #:** 1-780101-300,

1-780201-300



## Bromacil

**Column:** Reflect I-Amylose A,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (97/3)

Hexane/Ethanol

**Flow Rate:** 1.5 mL/min

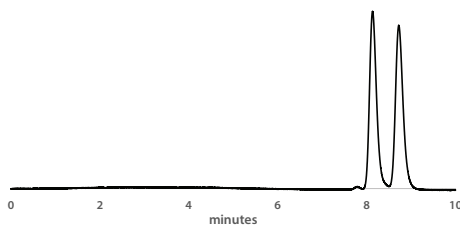
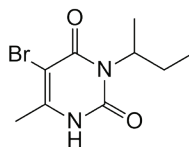
**Detection:** UV 254 nm

**$k'$ :** 3.06

**$\alpha$ :** 1.20

**CAS #:** 314-40-9

**Catalog #:** 1-591204-300



## Bromacil

**Column:** Reflect I-Cellulose J,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (95/5)  
Hexane/Ethanol

**Flow Rate:** 1.5 mL/min

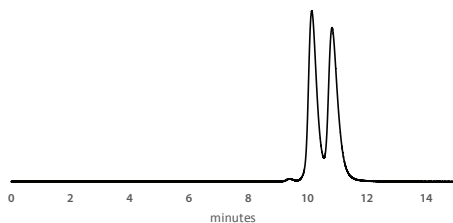
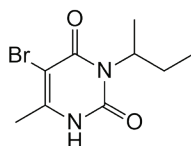
**Detection:** UV 254 nm

**k':** 4.06

**$\alpha$ :** 1.08

**CAS #:** 314-40-9

**Catalog #:** 1-594204-300



## Bromacil

**Column:** Reflect C-Amylose A,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (90/10)  
Hexane/Ethanol

**Flow Rate:** 1.5 mL/min

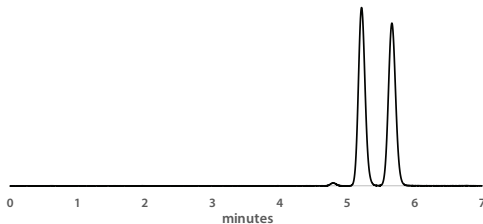
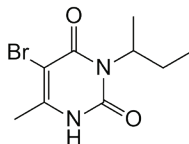
**Detection:** UV 254 nm

**k':** 1.60

**$\alpha$ :** 1.14

**CAS #:** 314-40-9

**Catalog #:** 1-580204-300



## Brompheniramine

**Column:** Reflect C-Amylose A,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (95/5/0.1)  
Hexane/Ethanol/DEA

**Flow Rate:** 1.5 mL/min

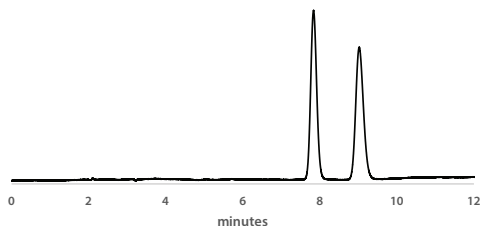
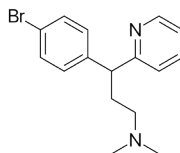
**Detection:** UV 254 nm

**k':** 2.91

**$\alpha$ :** 1.20

**CAS #:** 86-22-6

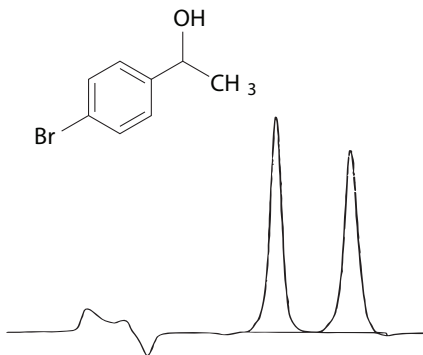
**Catalog #:** 1-580204-300





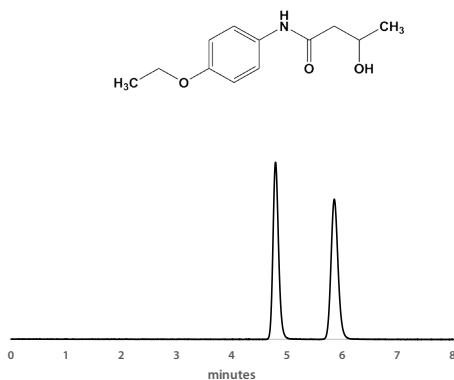
## 1-(p-Bromophenyl) Ethanol

**Column:** (S,S) ULMO,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (98.5/1.5)  
n-Heptane/1,2-Dimethoxyethane  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 11.5 min  
**k':** 2.39  
 **$\alpha$ :** 1.17  
**Reference:** 55  
**Catalog #:** 1-787100-300



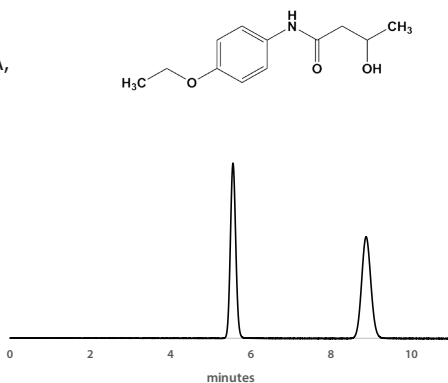
## Bucetin

**Column:** Reflect I-Amylose A,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (80/20)  
Hexane/IPA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**k':** 1.39  
 **$\alpha$ :** 1.38  
**CAS #:** 1083-57-4  
**Catalog #:** 1-591204-300



## Bucetin

**Column:** Reflect C-Amylose A,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (80/20)  
Hexane/IPA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**k':** 1.77  
 **$\alpha$ :** 1.93  
**CAS #:** 1083-57-4  
**Catalog #:** 1-580204-300



## Bucetin

**Column:** RegisPack CLA-1,

3  $\mu\text{m}$ , 15 cm x 4.6 mm

**Mobile Phase:** (80/20)

Hexane/IPA

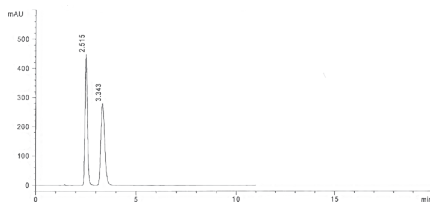
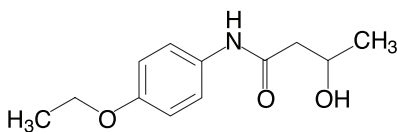
**Flow Rate:** 1.5 mL/min

**Detection:** UV 254 nm

**k'**: 1.17

**$\alpha$ :** 1.61

**Catalog #:** 1-793104-300



## Bucetin

**Column:** Reflect I-Amylose A,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (90/10) CO<sub>2</sub>/

Methanol

**Flow Rate:** 3.0 mL/min

**Detection:** UV 254 nm

**Temperature:** 40 °C

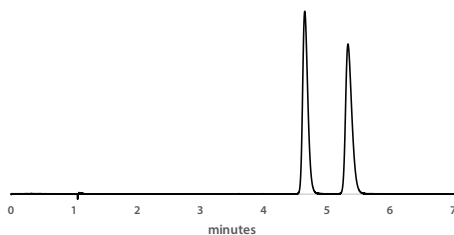
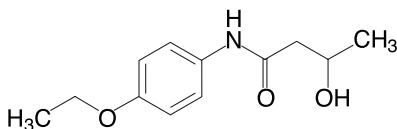
**Pressure:** 150 bar

**k'**: 3.64

**$\alpha$ :** 1.19

**CAS #:** 1083-57-4

**Catalog #:** 1-591204-300



## Bucetin

**Column:** Reflect I-Cellulose B,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (90/10) CO<sub>2</sub>/

Methanol

**Flow Rate:** 3.0 mL/min

**Detection:** UV 254 nm

**Temperature:** 40 °C

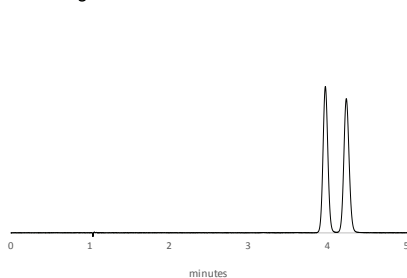
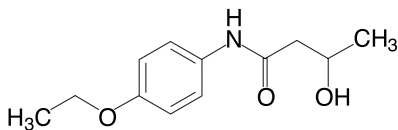
**Pressure:** 150 bar

**k'**: 2.97

**$\alpha$ :** 1.09

**CAS #:** 1083-57-4

**Catalog #:** 1-592204-300



## Bucetin

**Column:** Reflect C-Amylose A,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (80/20)  $\text{CO}_2$ /  
Methanol

**Flow Rate:** 3.0 mL/min

**Detection:** UV 254 nm

**Temperature:** 40  $^\circ\text{C}$

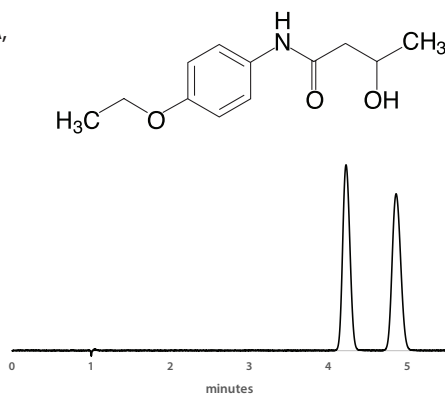
**Pressure:** 150 bar

**$k'_1$ :** 3.21

**$\alpha$ :** 1.20

**CAS #:** 1083-57-4

**Catalog #:** 1-580204-300



## Bucetin

**Column:** Reflect C-Cellulose B,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (90/10)  $\text{CO}_2$ /  
Methanol

**Flow Rate:** 3.0 mL/min

**Detection:** UV 254 nm

**Temperature:** 40  $^\circ\text{C}$

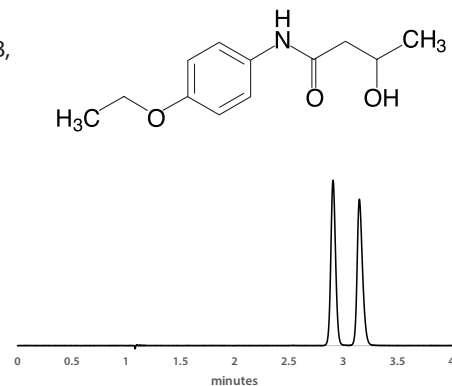
**Pressure:** 150 bar

**$k'_1$ :** 1.90

**$\alpha$ :** 1.13

**CAS #:** 1083-57-4

**Catalog #:** 1-590204-300



## Buckminsterfullerene-Enone [2+2] Photoadducts

*Semi-prep separation on analytical column*

**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** 2:1

Toluene/Hexane

**Flow Rate:** 1.0 mL/min

**Detection:** UV 400 nm

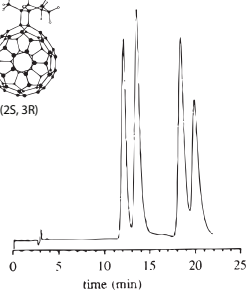
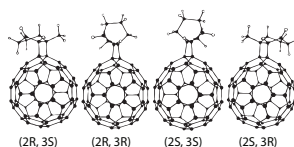
**Run Time:** 22 min

**Sample:** 100  $\mu\text{l}$  of 5 mg/ml solution (0.5 mg)

**Reference:** 8

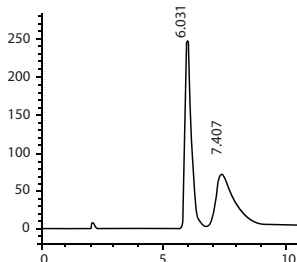
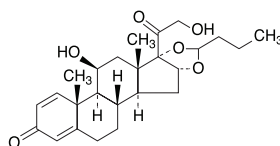
**Catalog #:** 1-780101-300,

1-780201-300



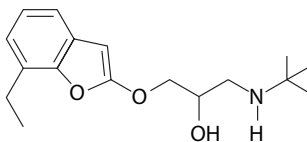
## Budesonide

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (85/15)  
Hexane/Ethanol  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 243 nm  
 **$k'$ :** 2.17  
 **$\alpha$ :** 1.34  
**CAS #:** 51333-22-3  
**Catalog #:** 1-783104-300



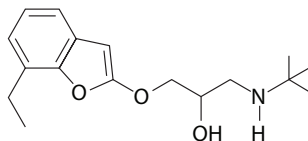
## Bufuralol

**Column:**  $\alpha$ -Burke 2,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
 $\text{CH}_2\text{Cl}_2/\text{EtOH}$  20 mM  $\text{NH}_4\text{OAc}$   
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 11.0 min  
 **$k'$ :** 0.96  
 **$\alpha$ :** 2.56  
**Catalog #:** 1-735035-300,  
1-735037-300



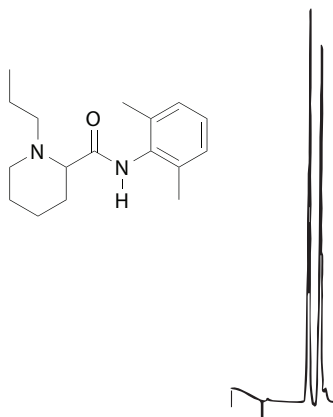
## Bufuralol

**Column:** (3R,4S) Pirkle 1-J,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
 $\text{CH}_2\text{Cl}_2/\text{Ethanol}$   
+ 0.02 M Ammonium Acetate  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 7.0 min  
 **$k'$ :** 0.91  
 **$\alpha$ :** 2.01  
**Catalog #:** 1-731044-300



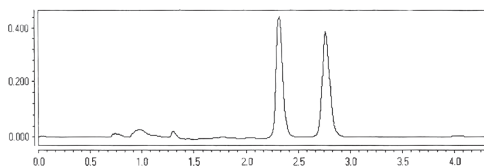
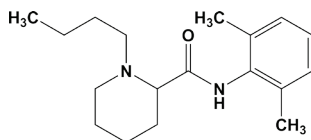
## Bupivacaine

**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (80/20/0.1)  
Hexane/IPA/TEA  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 7-8 min  
**k':** 1.89  
 **$\alpha$ :** 1.25  
**Catalog #:** 1-780101-300



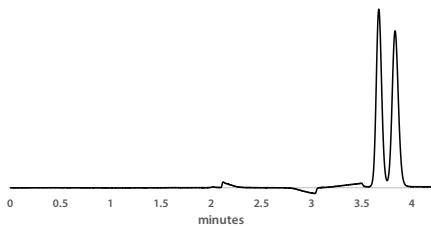
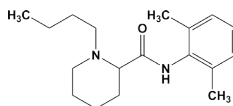
## Bupivacaine

**Column:** (S,S) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (75/25) CO<sub>2</sub>/  
Ethanol + 0.5% DEA  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40 °C  
**Pressure:** 125 bar  
**Detection:** UV 254 nm  
**k':** 2.09  
 **$\alpha$ :** 1.28  
**Catalog #:** 1-780101-300



## Bupivacaine

**Column:** Reflect I-Cellulose B,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (95/5/0.1)  
Hexane/Ethanol/DEA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**k':** 0.83  
 **$\alpha$ :** 1.10  
**CAS #:** 2180-92-9  
**Catalog #:** 1-592204-300



## Bupivacaine

**Column:** Reflect C-Cellulose B,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (90/10/0.1)

Hexane/IPA/DEA

**Flow Rate:** 1.5 mL/min

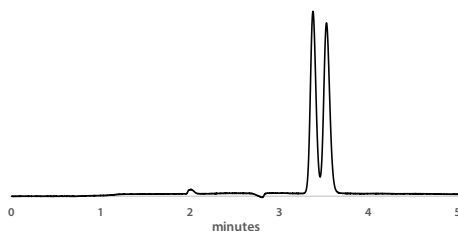
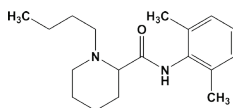
**Detection:** UV 254 nm

**k':** 0.69

**$\alpha$ :** 1.11

**CAS #:** 2180-92-9

**Catalog #:** 1-590204-300



## Bupranolol

**Column:** (3R,4S) Pirkle 1-J,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (85/15)

$\text{CH}_2\text{Cl}_2$ /Ethanol + 0.015M

Ammonium Acetate

**Flow Rate:** 1.0 mL/min

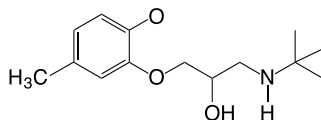
**Detection:** UV 254 nm

**Run Time:** 8.5 min

**k':** 1.44

**$\alpha$ :** 1.47

**Catalog #:** 1-731044-300



## Butaclamol

**Column:** RegisCell,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (95/5)

Hexane/Ethanol + 0.1% DEA

**Flow Rate:** 1.5 mL/min

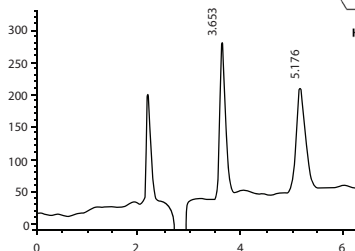
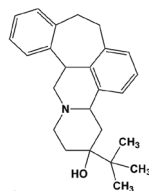
**Detection:** UV 220 nm

**k':** 0.92

**$\alpha$ :** 1.87

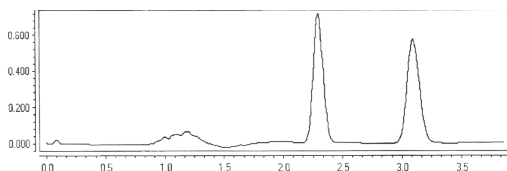
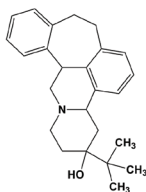
**CAS #:** 51152-91-1

**Catalog #:** 1-784104-300



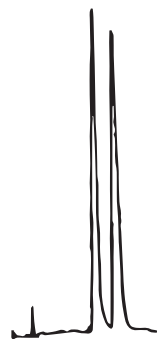
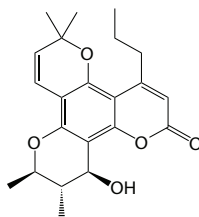
## Butaclamol

**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (80/20)  
 $\text{CO}_2/\text{CH}_3\text{OH}$  + 0.5% DEA  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40  $^\circ\text{C}$   
**Pressure:** 125 bar  
**Detection:** UV 220 nm  
 **$k'$ :** 2.06  
 **$\alpha$ :** 1.52  
**Catalog #:** 1-783104-300



## Calanolide A

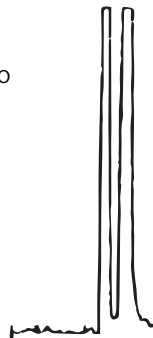
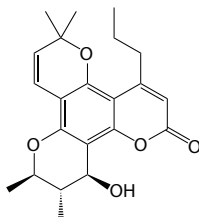
**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (10/90)  
IPA/Hexane  
**Flow Rate:** 1.25 mL/min  
**Detection:** UV 270 nm  
**Run Time:** 18 min  
 **$k'$ :** 3.2  
 **$\alpha$ :** 1.4  
**Reference:** 16  
**Catalog #:** 1-780101-300



## Calanolide A

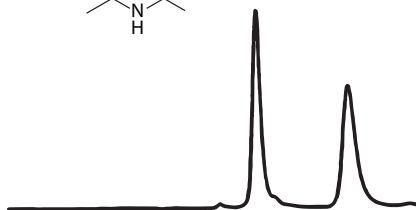
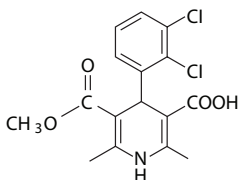
*Semi prep*

**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (10/90) IPA/Hexane  
**Flow Rate:** 1.25 mL/min  
**Detection:** UV 270 nm  
**Run Time:** 18 min  
**Sample:** 5 mg  
 **$k'$ :** 3.2  
 **$\alpha$ :** 1.4  
**Reference:** 16  
**Catalog #:** 1-780101-300



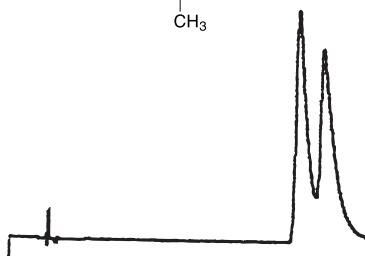
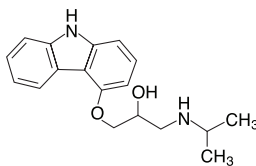
## Calcium Channel Blocker

**Column:** (S,S) ULMO,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (99/1)  
Heptane/IPA + 0.1% TFA  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 230 nm  
**Run Time:** 6 min  
**k'**: 0.55  
 **$\alpha$ :** 2.06  
**Reference:** 48  
**Catalog #:** 1-787100-300



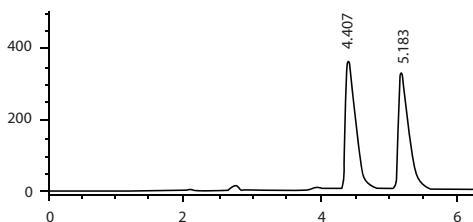
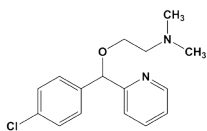
## Carazolol

**Column:** (R)  $\alpha$ -Burke 2,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (46/46/8)  
 $\text{CH}_2\text{Cl}_2$ /Methanol/Ethanol  
+ 0.01 M Ammonium Acetate  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 15.0 min  
**k'**: 6.73  
 **$\alpha$ :** 1.10  
**Catalog #:** 1-735035-300



## Carbinoxamine

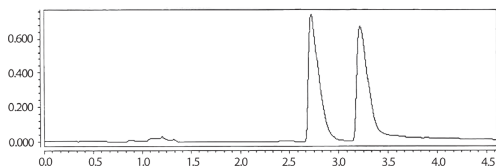
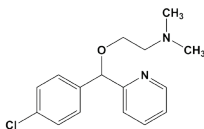
**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
Hexane/IPA + 0.1% DEA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**k'**: 1.32  
 **$\alpha$ :** 1.31  
**CAS #:** 486-16-8  
**Catalog #:** 1-783104-300





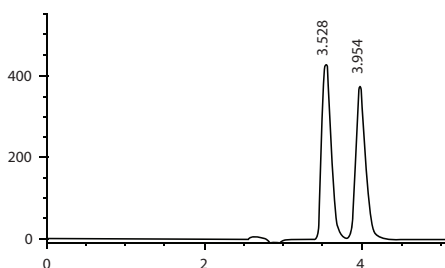
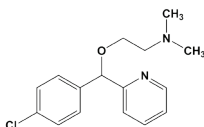
## Carbinoxamine

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (85/15)  
 $\text{CO}_2/\text{IPA} + 0.5\% \text{ DEA}$   
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40  $^\circ\text{C}$   
**Pressure:** 125 bar  
**Detection:** UV 254 nm  
 **$k'$ :** 2.64  
 **$\alpha$ :** 1.25  
**Catalog #:** 1-783104-300



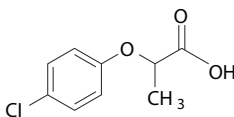
## Carbinoxamine

**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (92/8)  
Hexane/IPA + 0.1% DEA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
 **$k'$ :** 0.86  
 **$\alpha$ :** 1.20  
**CAS #:** 486-16-8  
**Catalog #:** 1-784104-300



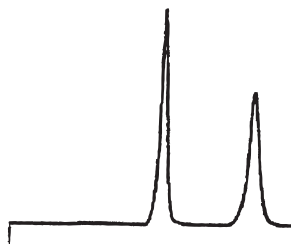
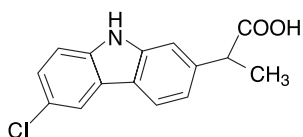
## Carboxylic Acid

**Column:** (S,S) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (95/5)  
Hexane/IPA + 0.1% TFA  
**Flow Rate:** 2.0 mL/min  
**Detection:** UV 254 nm  
 **$k'$ :** 0.84  
 **$\alpha$ :** 1.36  
**Run Time:** 3.5 min  
**Reference:** 44  
**Catalog #:** 1-780101-300



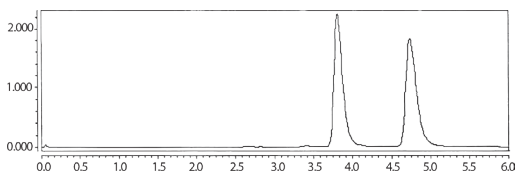
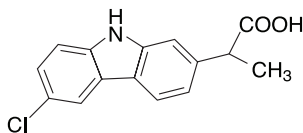
## Carprofen

**Column:** (R,R) Whelk-O 1,  
10  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (85/15)  
Hexane/IPA + 0.1% Acetic Acid  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**k':** 4.70  
 **$\alpha$ :** 1.73  
**Reference:** 46  
**Catalog #:** 1-786515-300



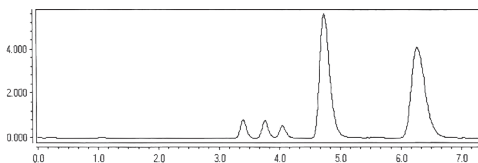
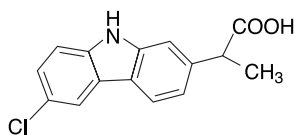
## Carprofen

**Column:** (S,S) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (70/30)  
CO<sub>2</sub>/Ethanol  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40 °C  
**Pressure:** 125 bar  
**Detection:** UV 254 nm  
**k':** 4.08  
 **$\alpha$ :** 1.31  
**Catalog #:** 1-780101-300



## Carprofen

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (70/30)  
CO<sub>2</sub>/IPA + 0.5% DEA  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40 °C  
**Pressure:** 123 bar  
**Detection:** UV 254 nm  
**k':** 5.32  
 **$\alpha$ :** 1.38  
**Catalog #:** 1-783104-300





## Chlorfurecol Methyl

*Herbicide*

**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (98/2)  
Hexane/IPA

**Flow Rate:** 1.0 mL/min

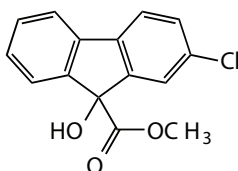
**Detection:** UV 254 nm

**Run Time:** 16 min

**k':** 3.96

**$\alpha$ :** 1.28

**Catalog #:** 1-780101-300, 1-780201-300



## Chlorfurecol Methyl Ester

**Column:** Reflect I-Cellulose B,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (95/5)  $\text{CO}_2$ /  
Methanol

**Flow Rate:** 3.0 mL/min

**Temperature:** 30  $^\circ\text{C}$

**Pressure:** 150 bar

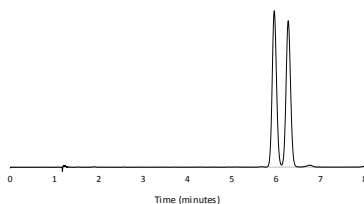
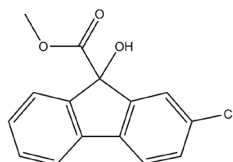
**Detection:** UV 210 nm

**k':** 4.94

**$\alpha$ :** 1.06

**CAS #:** 2536-31-4

**Catalog #:** 1-592204-300



## Chlorfurecol Methyl Ester

**Column:** Reflect I-Cellulose C,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (90/10)  $\text{CO}_2$ /IPA

**Flow Rate:** 3.0 mL/min

**Temperature:** 30  $^\circ\text{C}$

**Pressure:** 150 bar

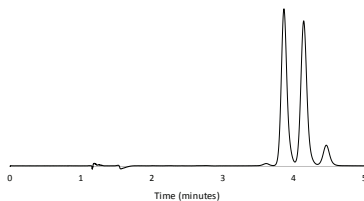
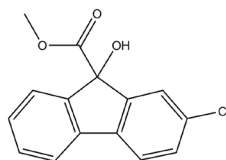
**Detection:** UV 210 nm

**k':** 2.86

**$\alpha$ :** 1.10

**CAS #:** 2536-31-4

**Catalog #:** 1-593204-300



## Chlorflurecol Methyl Ester

**Column:** Reflect C-Amylose A,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (80/20)  $\text{CO}_2$ /IPA

**Flow Rate:** 3.0 mL/min

**Temperature:** 30  $^\circ\text{C}$

**Pressure:** 150 bar

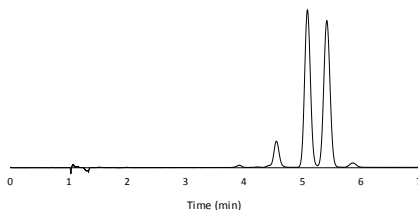
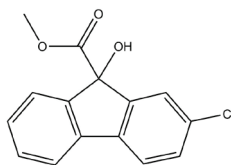
**Detection:** UV 210 nm

**$k'$ :** 4.07

**$\alpha$ :** 1.08

**CAS #:** 2536-31-4

**Catalog #:** 1-580204-300



## Chlormezanone

**Column:** (R,R) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (60/40)  
Hexane/IPA

**Flow Rate:** 1.5 mL/min

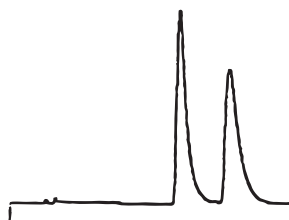
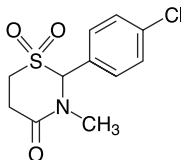
**Detection:** UV 254 nm

**Run Time:** 13.0 min

**$k'$ :** 4.48

**$\alpha$ :** 1.36

**Catalog #:** 1-780201-300



## Chlormezanone

**Column:** (S,S) Whelk-O, 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (70/30)  
 $\text{CO}_2$ /CH<sub>3</sub>OH

**Flow Rate:** 4.0 mL/min

**Temperature:** 40  $^\circ\text{C}$

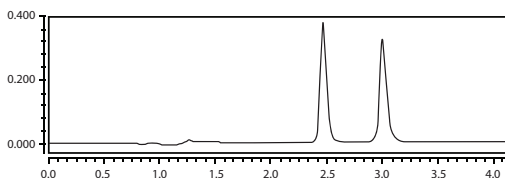
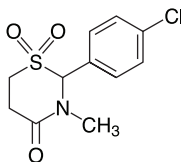
**Pressure:** 125 bar

**Detection:** UV 254 nm

**$k'$ :** 2.31

**$\alpha$ :** 1.31

**Catalog #:** 1-780101-300



## Chlormezanone

**Column:** Reflect I-Amylose A,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (50/50)

Hexane/IPA

**Flow Rate:** 1.5 mL/min

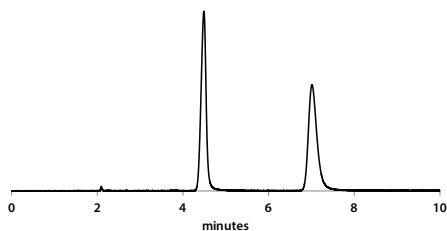
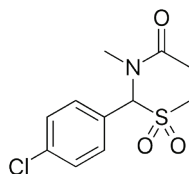
**Detection:** UV 220 nm

**k':** 1.24

**$\alpha$ :** 2.01

**CAS #:** 80-77-3

**Catalog #:** 1-591204-300



## Chlormezanone

**Column:** Reflect I-Cellulose B,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** 100% Ethanol

**Flow Rate:** 1.0 mL/min

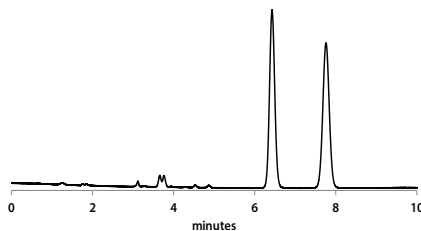
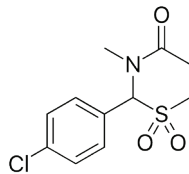
**Detection:** UV 220 nm

**k':** 1.09

**$\alpha$ :** 1.40

**CAS #:** 80-77-3

**Catalog #:** 1-592204-300



## Chlormezanone

**Column:** Reflect C-Amylose A,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (50/50)

Hexane/IPA

**Flow Rate:** 1.5 mL/min

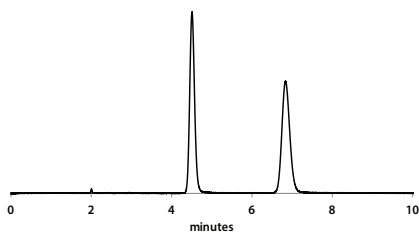
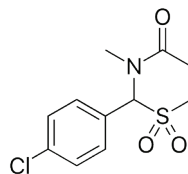
**Detection:** UV 220 nm

**k':** 1.25

**$\alpha$ :** 1.92

**CAS #:** 80-77-3

**Catalog #:** 1-580204-300



## Chlormezanone

**Column:** Reflect C-Cellulose B,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** 100% Ethanol

**Flow Rate:** 1.0 mL/min

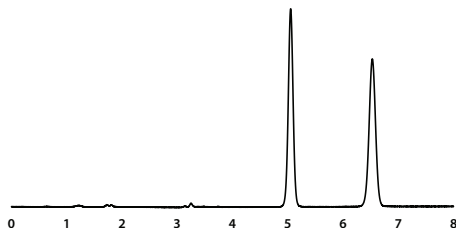
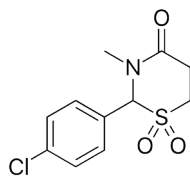
**Detection:** UV 220 nm

**k':** 0.64

**$\alpha$ :** 1.75

**CAS #:** 80-77-3

**Catalog #:** 1-590204-300



## Chlormezanone

**Column:** RegisPack,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (55/45)

CO<sub>2</sub>/CH<sub>3</sub>OH

**Flow Rate:** 4.0 mL/min

**Temperature:** 40 °C

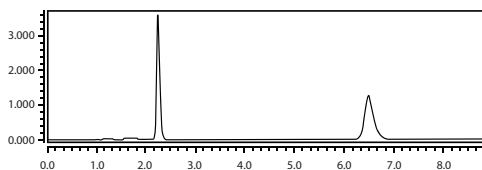
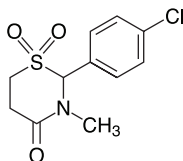
**Pressure:** 125 bar

**Detection:** UV 220 nm

**k':** 2.01

**$\alpha$ :** 3.81

**Catalog #:** 1-783104-300



## Chlormezanone

**Column:** RegisCell,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (65/35)

CO<sub>2</sub>/IPA

**Flow Rate:** 4.0 mL/min

**Temperature:** 40 °C

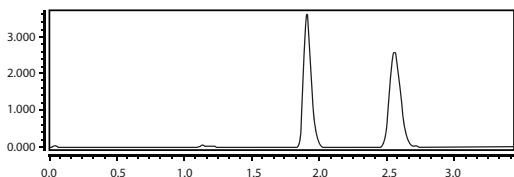
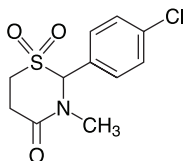
**Pressure:** 124 bar

**Detection:** UV 220 nm

**k':** 1.54

**$\alpha$ :** 1.56

**Catalog #:** 1-784104-300



## 4-Chloromandelic Acid

**Column:** (R,R) Whelk-O 2,

10  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (70/30)

H<sub>2</sub>O/CH<sub>3</sub>OH

+ 0.1% Acetic Acid

**Flow Rate:** 1.0 mL/min

**Detection:** UV 254 nm

**Run Time:** 10.0 min

**k':** 1.95

**$\alpha$ :** 1.43

**Catalog #:** 1-786315-300



## 2-(2-Chloro-4-methylphenoxy)propionic Acid

**Column:** (S,S) ULMO,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (99/1)

Hexane/IPA + 0.1% TFA

**Flow Rate:** 1.0 mL/min

**Detection:** UV 254 nm

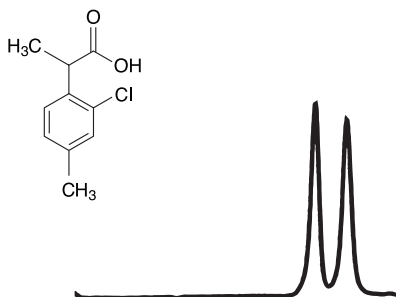
**Run Time:** 11.0 min

**k':** 2.22

**$\alpha$ :** 1.11

**Reference:** 43

**Catalog #:** 1-787100-300



## 2-(3-Chlorophenoxy) Propionic Acid

**Column:** (R,R) Whelk-O 1,

10  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (99/1)

Hexane/IPA

**Flow Rate:** 1.5 mL/min

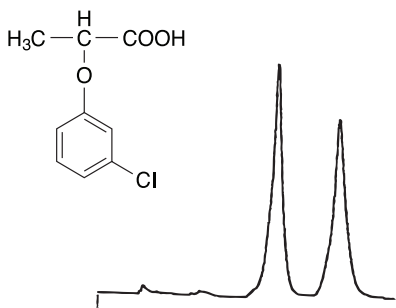
**Detection:** UV 254 nm

**Run Time:** 17.0 min

**k':** 6.09

**$\alpha$ :** 1.42

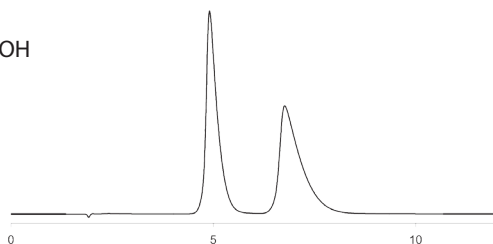
**Catalog #:** 1-786515-300





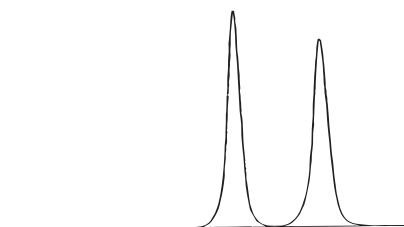
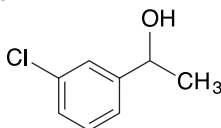
## DL-4-Chloro-phenylalanine

**Column:** ChiroSil ME RCA(+),  
5  $\mu\text{m}$ , 15 cm x 4.6 mm  
**Mobile Phase:** (40/60)  
0.01% Phosphoric Acid/MeOH  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 210 nm  
**Temperature:** 40  $^{\circ}\text{C}$   
**k':** 0.78  
 **$\alpha$ :** 1.58  
**Catalog #:** 1-788001-300



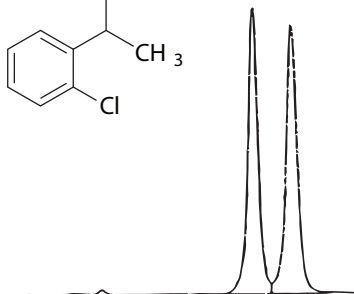
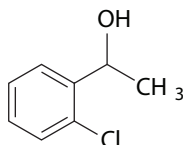
## 1-(m-Chlorophenyl) Ethanol

**Column:** (S,S) ULMO,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (98.5/1.5)  
n-Heptane/1,2-Dimethoxyethane  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 10.5 min  
**k':** 2.13  
 **$\alpha$ :** 1.17  
**Reference:** 55  
**Catalog #:** 1-787100-300



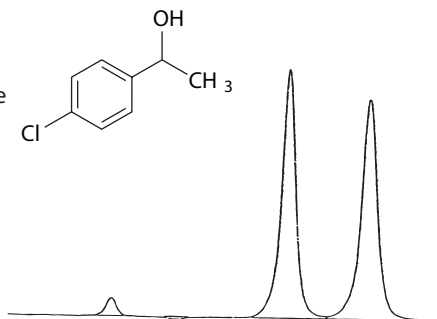
## 1-(o-Chlorophenyl) Ethanol

**Column:** (S,S) ULMO,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (98.5/1.5)  
n-Heptane/1,2-Dimethoxyethane  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 8.5 min  
**k':** 1.58  
 **$\alpha$ :** 1.12  
**Reference:** 55  
**Catalog #:** 1-787100-300



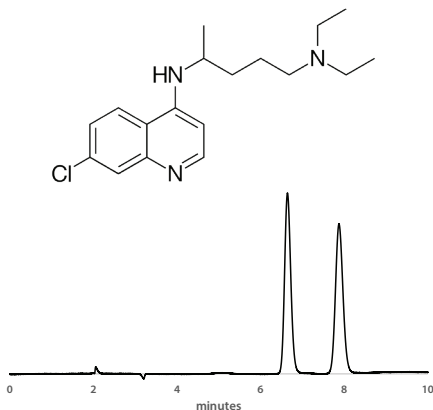
## 1-(p-Chlorophenyl) Ethanol

**Column:** (S,S) ULMO,  
 5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (98.5/1.5)  
 n-Heptane/1,2-Dimethoxyethane  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 10.5 min  
**k':** 2.18  
 **$\alpha$ :** 1.15  
**Reference:** 55  
**Catalog #:** 1-787100-300



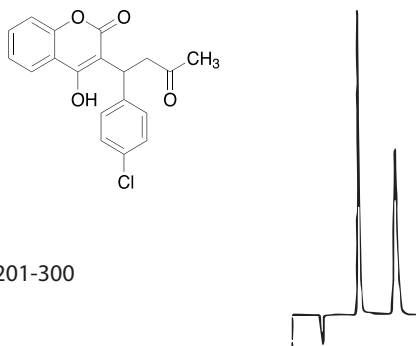
## Chloroquine

**Column:** Reflect C-Amylose A,  
 5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (95/5/0.1)  
 Hexane/Ethanol/DEA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**k':** 2.31  
 **$\alpha$ :** 1.27  
**CAS #:** 54-05-7  
**Catalog #:** 1-580204-300



## p-Chloro-Warfarin

**Column:** Whelk-O 1,  
 5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (85/15)  
 MeOH/H<sub>2</sub>O + 0.1% HOAc  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 12 min  
**k':** 1.64  
 **$\alpha$ :** 1.93  
**Catalog #:** 1-780101-300, 1-780201-300



## Chlorphedianol

**Column:** Reflect I-Cellulose B,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (90/10/0.1)

Hexane/Ethanol/DEA

**Flow Rate:** 1.5 mL/min

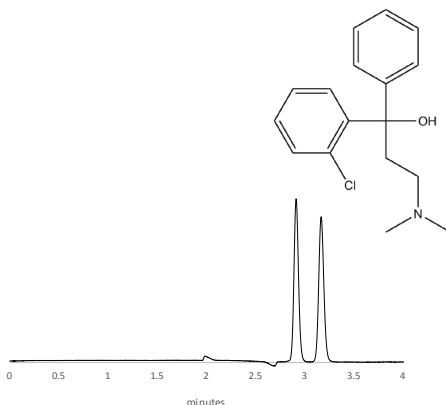
**Detection:** UV 254 nm

**k':** 0.45

**$\alpha$ :** 1.28

**CAS #:** 511-143-7

**Catalog #:** 1-592204-300



## Chlorphedianol

**Column:** Reflect I-Cellulose J,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (90/10/0.1)

Hexane/Ethanol/DEA

**Flow Rate:** 1.5 mL/min

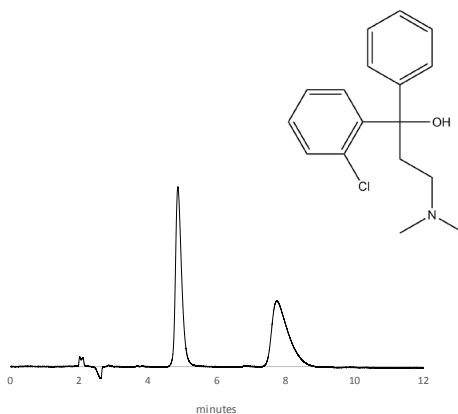
**Detection:** UV 254 nm

**k':** 1.43

**$\alpha$ :** 2.01

**CAS #:** 511-143-7

**Catalog #:** 1-594204-300



## Chlorphedianol

**Column:** Reflect C-Cellulose B,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (95/5/0.1)

Hexane/Ethanol/DEA

**Flow Rate:** 1.5 mL/min

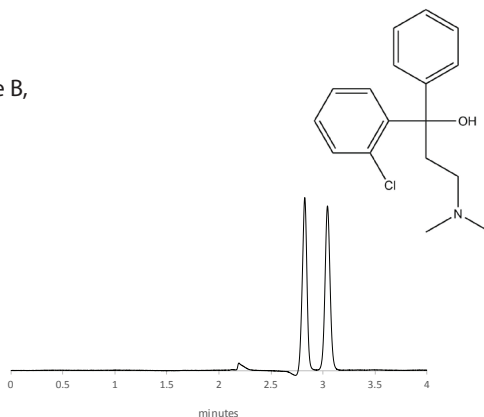
**Detection:** UV 254 nm

**k':** 0.41

**$\alpha$ :** 1.27

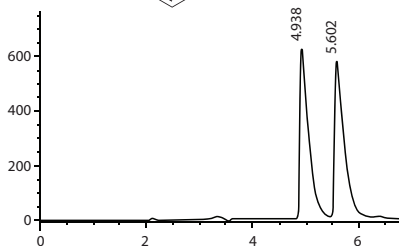
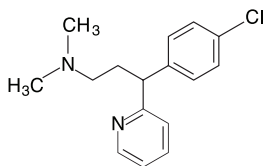
**CAS #:** 511-143-7

**Catalog #:** 1-590204-300



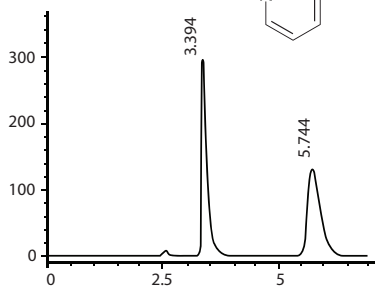
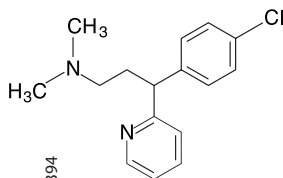
## Chlorpheniramine

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (95/5)  
Hexane/IPA + 0.1% DEA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**k'**: 1.60  
 **$\alpha$ :** 1.22  
**CAS #:** 132-22-9  
**Catalog #:** 1-783104-300



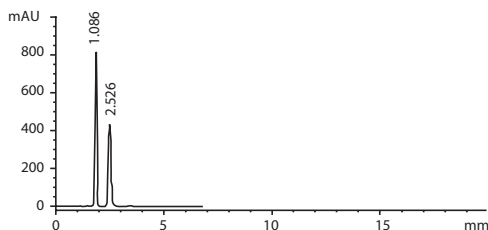
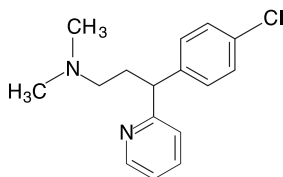
## Chlorpheniramine

**Column:** RegisPack CLA-1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (85/15)  
Hexane/IPA + 0.1% DEA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**k'**: 0.76  
 **$\alpha$ :** 2.60  
**CAS #:** 132-22-9  
**Catalog #:** 1-793104-300



## Chlorpheniramine

**Column:** RegisPack CLA-1,  
3  $\mu\text{m}$ , 15 cm x 4.6 mm  
**Mobile Phase:** (85/15)  
Hexane/IPA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**k'**: 0.63  
 **$\alpha$ :** 1.87  
**Catalog #:** 1-793503-300



## Chlorthalidone

**Column:** RegisPack,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (75/25)

Hexane/Ethanol + 0.1% TFA

**Flow Rate:** 1.5 mL/min

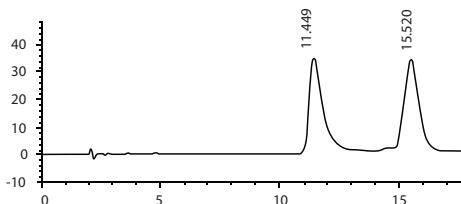
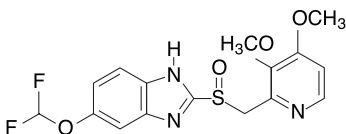
**Detection:** UV 254 nm

**k':** 5.03

**$\alpha$ :** 7.17

**CAS #:** 77-36-1

**Catalog #:** 1-783104-300



## Chlorthalidone

**Column:** (S,S) DACH-DNB,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (99/1)

$\text{CH}_2\text{Cl}_2/\text{CH}_3\text{OH}$

+ 0.01 M Ammonium Acetate

**Flow Rate:** 1.5 mL/min

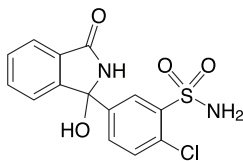
**Detection:** UV 254 nm

**Run Time:** 20.0 min

**k':** 9.38

**$\alpha$ :** 1.18

**Catalog #:** 1-788201-300



## Chrysanthemic Acid-Ethyl Ester

*Mixture of Isomers*

**Column:** Whelk-O 1,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

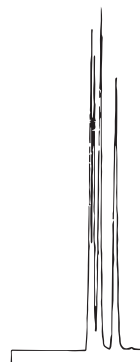
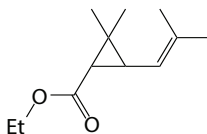
**Mobile Phase:** 100% Hexane

**Flow Rate:** 1.0 mL/min

**Detection:** UV 254 nm

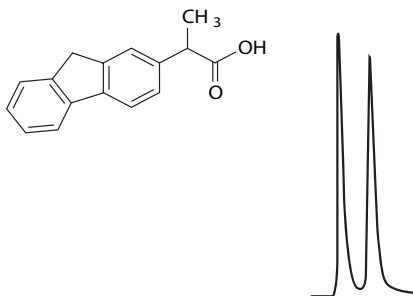
**Run Time:** 10 min

**Catalog #:** 1-780101-300, 1-780201-300



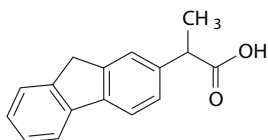
## Cicloprofen

**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (70/30)  
Hexane/IPA + 0.5% HOAc  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
 **$k'$ :** 0.48  
 **$\alpha$ :** 1.35  
**Catalog #:** 1-780101-300,  
1-780201-300



## Cicloprofen

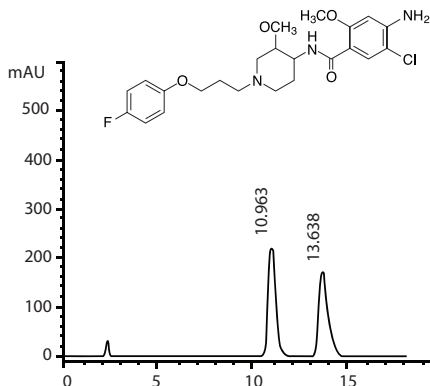
**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (20/80)  
IPA/Hexane, 1g/L  $\text{NH}_4\text{OAc}$   
**Flow Rate:** 2.0 mL/min  
**Detection:** UV 254 nm  
 **$k'$ :** 1.16  
 **$\alpha$ :** 2.15  
**Reference:** 4  
**Catalog #:** 1-780101-300, 1-780201-300



*No chromatogram available.*

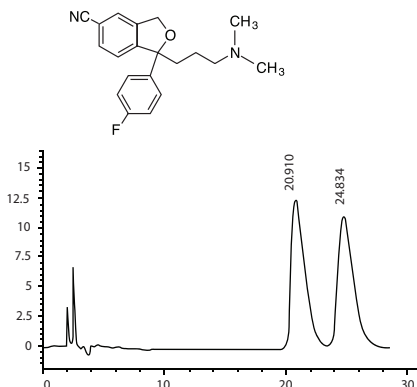
## Cisapride

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (80/20)  
Hexane/IPA + 0.1% DEA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 243 nm  
 **$k'$ :** 4.77  
 **$\alpha$ :** 1.29  
**CAS #:** 81098-60-4  
**Catalog #:** 1-783104-300



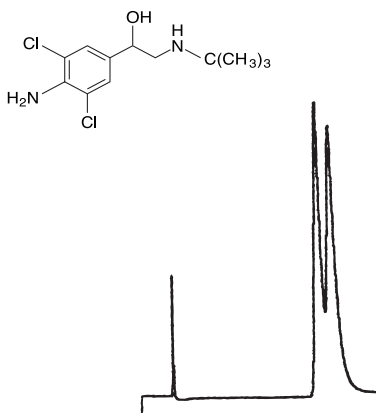
## Citalopram

**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
Hexane/IPA  
+ 0.1% DEA + 0.1% TFA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
 **$k'$ :** 10.01  
 **$\alpha$ :** 1.21  
**CAS #:** 59729-33-8  
**Catalog #:** 1-784104-300



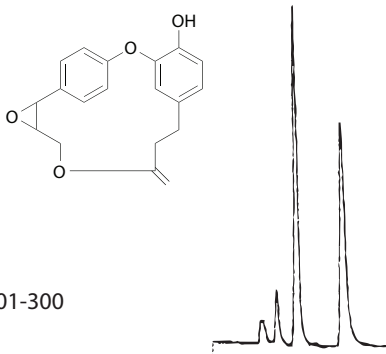
## Clenbuterol

**Column:** (R)  $\alpha$ -Burke 2,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
 $\text{CH}_2\text{Cl}_2$ /Ethanol  
+0.01 M Ammonium Acetate  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 12.0 min  
 **$k'$ :** 4.99  
 **$\alpha$ :** 1.09  
**Catalog #:** 1-735035-300



## Combretastatin D-1

**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (20/80)  
IPA/Hexane  
**Flow Rate:** 2.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 13 min  
 **$k'$ :** 4.54  
 **$\alpha$ :** 1.45  
**Catalog #:** 1-780101-300, 1-780201-300



## Coumachlor

**Column:** (R,R) Whelk-O 1,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (65/35)

Hexane/Ethanol

+ 0.1% Acetic Acid

**Flow Rate:** 1.5 mL/min

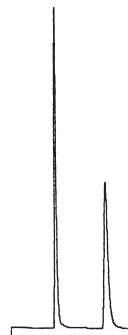
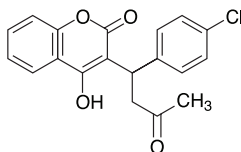
**Detection:** UV 254 nm

**Run Time:** 10.0 min

**k':** 1.48

**$\alpha$ :** 2.90

**Catalog #:** 1-780201-300



## Coumachlor

**Column:** (S,S) Whelk-O 1,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (60/40)

CO<sub>2</sub>/CH<sub>3</sub>OH

**Flow Rate:** 4.0 mL/min

**Temperature:** 40 °C

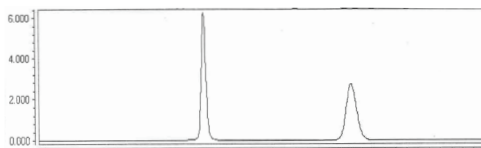
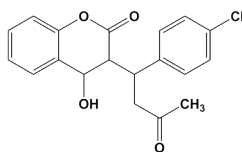
**Pressure:** 125 bar

**Detection:** UV 254 nm

**k':** 2.29

**$\alpha$ :** 2.28

**Catalog #:** 1-780101-300



## Coumachlor

**Column:** RegisPack,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (70/30)

CO<sub>2</sub>/CH<sub>3</sub>OH

**Flow Rate:** 4.0 mL/min

**Temperature:** 40 °C

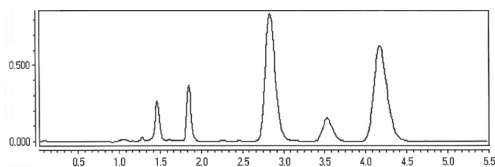
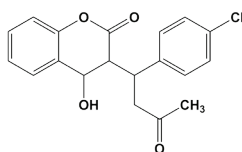
**Pressure:** 125 bar

**Detection:** UV 254 nm

**k':** 2.78

**$\alpha$ :** 1.64

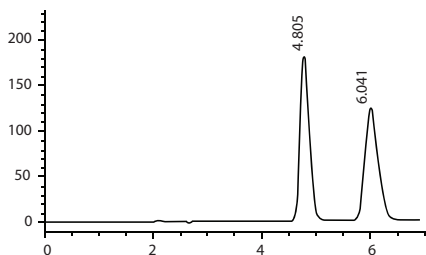
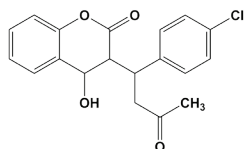
**Catalog #:** 1-783104-300





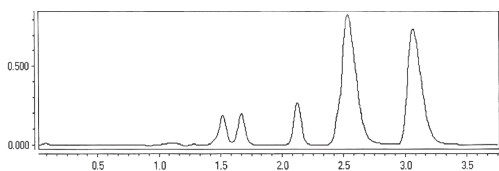
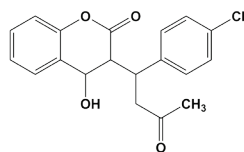
## Coumachlor

**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
Hexane/Ethanol  
+ 0.1% Acetic Acid  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
 **$k'$ :** 1.53  
 **$\alpha$ :** 1.43  
**CAS #:** 81-82-3  
**Catalog #:** 1-784104-300



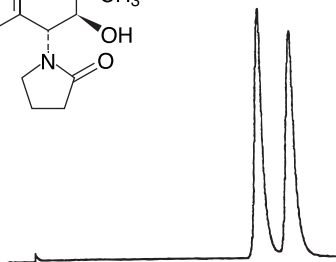
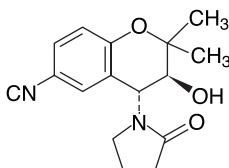
## Coumachlor

**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (80/20)  
 $\text{CO}_2/\text{CH}_3\text{OH}$   
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40  $^\circ\text{C}$   
**Pressure:** 125 bar  
**Detection:** UV 254 nm  
 **$k'$ :** 2.38  
 **$\alpha$ :** 1.30  
**Catalog #:** 1-784104-300



## Cromakalim

**Column:** (R,R) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (92/8)  
Hexane/Ethanol  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 21.0 min  
 **$k'$ :** 9.18  
 **$\alpha$ :** 1.14  
**Catalog #:** 1-780101-300



## Cromakalim

**Column:** (S,S) Whelk-O 1,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (85/15)

CO<sub>2</sub>/Ethanol

**Flow Rate:** 4.0 mL/min

**Temp:** 40 °C

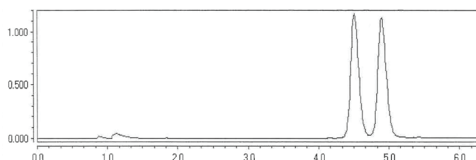
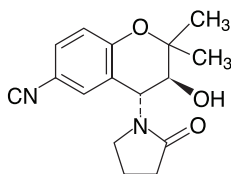
**Pressure:** 125 bar

**Detection:** UV 220 nm

**k'**: 5.01

**$\alpha$ :** 1.10

**Catalog #:** 1-780101-300



## Cromakalim

**Column:** RegisPack,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (90/10)

Hexane/Ethanol

**Flow Rate:** 1.5 mL/min

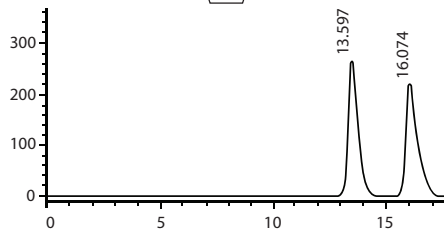
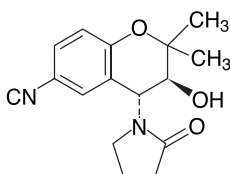
**Detection:** UV 254 nm

**k'**: 6.12

**$\alpha$ :** 1.22

**CAS #:** 94470-67-4

**Catalog #:** 1-783104-300



## Cromakalim

**Column:** RegisPack,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (85/15) CO<sub>2</sub>/IPA

**Flow Rate:** 4.0 mL/min

**Temperature:** 40 °C

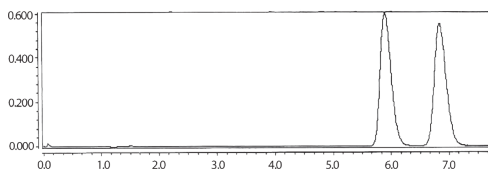
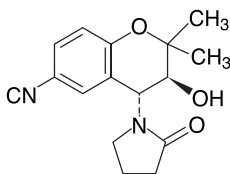
**Pressure:** 125 bar

**Detection:** UV 254 nm

**k'**: 6.87

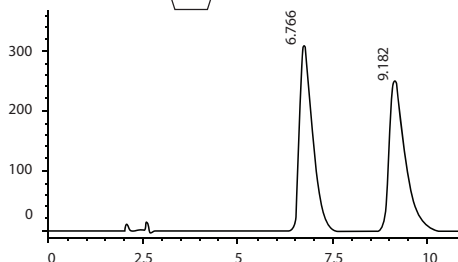
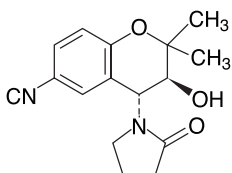
**$\alpha$ :** 1.18

**Catalog #:** 1-783104-300



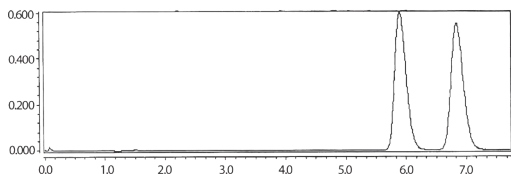
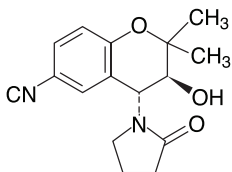
## Cromakalim

**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
Hexane/IPA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**k'**: 2.57  
 **$\alpha$ :** 1.49  
**CAS #:** 94470-67-4  
**Catalog #:** 1-784104-300



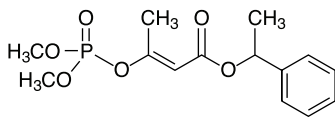
## Cromakalim

**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (85/15)  
 $\text{CO}_2$ /IPA  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40  $^\circ\text{C}$   
**Pressure:** 125 bar  
**Detection:** UV 254 nm  
**k'**: 1.19  
 **$\alpha$ :** 1.86  
**Catalog #:** 1-784104-300



## Crotoxyphos

**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (70/30)  
Hexane/IPA  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 15 min  
**k'**: 4.37  
 **$\alpha$ :** 1.93  
**Catalog #:** 1-780101-300



## Cyclandelate

Mixture of Isomers

**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

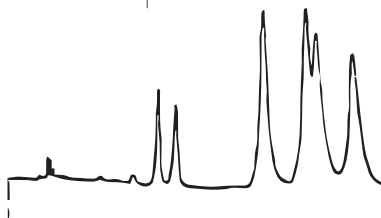
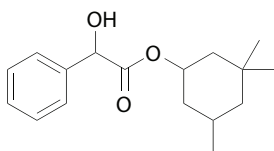
**Mobile Phase:** 100%  
Hexane

**Flow Rate:** 1.0 mL/min

**Detection:** UV 254 nm

**Run Time:** 35 min

**Catalog #:** 1-780101-300



## Cyclandelate

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

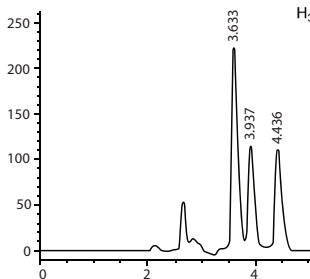
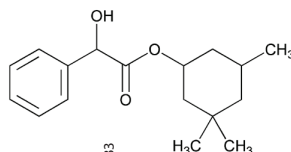
**Mobile Phase:** (92/8)  
Hexane/IPA + 0.1% DEA

**Flow Rate:** 1.5 mL/min

**Detection:** UV 254 nm

**CAS #:** 456-59-7

**Catalog #:** 1-783104-300



## Cyclandelate

**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (80/20)  
Hexane/IPA

**Flow Rate:** 1.5 mL/min

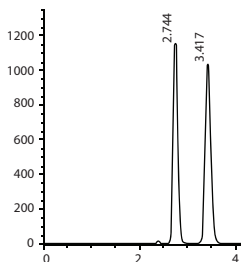
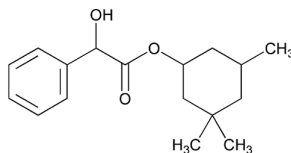
**Detection:** UV 220 nm

**k'1:** 0.44

**$\alpha$ :** 1.80

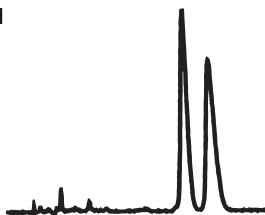
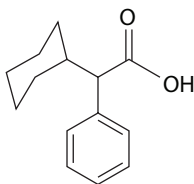
**CAS #:** 456-59-7

**Catalog #:** 1-784104-300



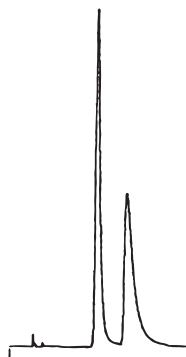
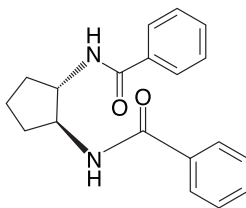
## 1-Cyclohexyl-1-phenylAcetic Acid

**Column:** (S,S) ULMO,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (99/1)  
Hexane/IPA + 0.1% TFA  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 13.0 min  
**k':** 2.53  
 **$\alpha$ :** 1.18  
**Reference:** 43  
**Catalog #:** 1-787100-300



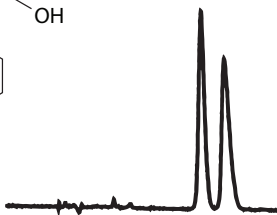
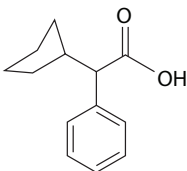
## Cyclopentyl Benzoyl-Diamide

**Column:** (S,S) ULMO,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
Hexane/IPA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 8.7 min  
**k':** 2.62  
 **$\alpha$ :** 1.47  
**Catalog #:** 1-787100-300



## 1-Cyclopentyl-1-phenylAcetic Acid

**Column:** (S,S) ULMO,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (99/1)  
Hexane/IPA + 0.1% TFA  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 12.0 min  
**k':** 2.46  
 **$\alpha$ :** 1.19  
**Reference:** 43  
**Catalog #:** 1-787100-300



## Cyclophosphamide

**Column:** (S,S) Whelk-O 1,

10  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (95/5)

Hexane/Ethanol

**Flow Rate:** 1.5 mL/min

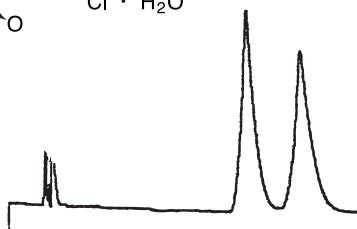
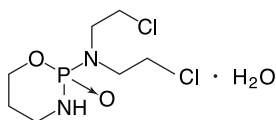
**Detection:** UV 195 nm

**Run Time:** 16.0 min

**k'**: 6.31

**$\alpha$** : 1.27

**Catalog #:** 1-786515-300



## Cyclothiazide

**Column:** (S,S) ULMO,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (75/25)

Hexane/IPA

+ 0.1% Acetic Acid

**Flow Rate:** 1.5 mL/min

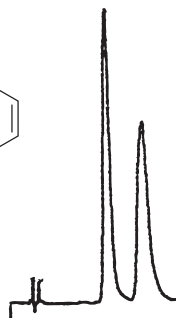
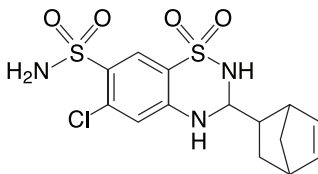
**Detection:** UV 254 nm

**Run Time:** 12.0 min

**k'**: 3.71

**$\alpha$** : 1.47

**Catalog #:** 1-787100-300



## cis:trans Cypermethrin

**Column:** (3R,4S) Pirkle 1-J,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (98/2) Hexane/IPA

**Flow Rate:** 1.0 mL/min

**Detection:** UV 254 nm

**Run Time:** 22.0 min

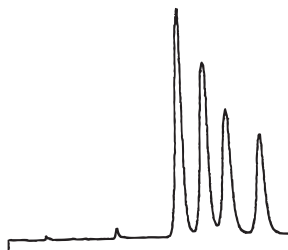
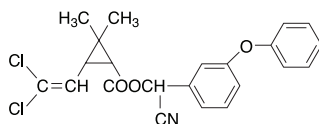
**k'** (trans): 4.59

**$\alpha$**  (trans): 1.19

**k'** (cis): 6.19

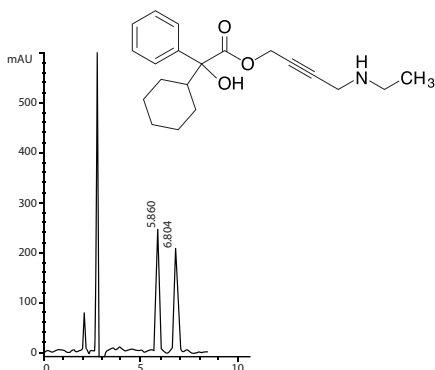
**$\alpha$**  (cis): 1.18

**Catalog #:** 1-731044-300



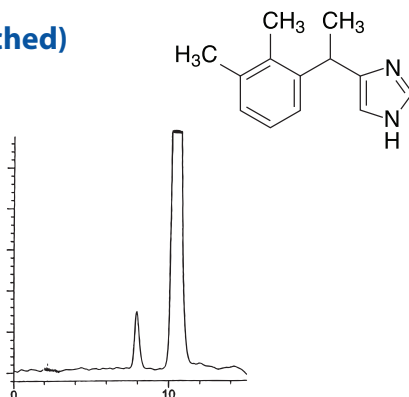
## Desethyloxybutynin

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
Hexane/IPA + 0.1% DEA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
**k':** 2.08  
 **$\alpha$ :** 1.24  
**CAS #:** 81039-77-2  
**Catalog #:** 1-783104-300



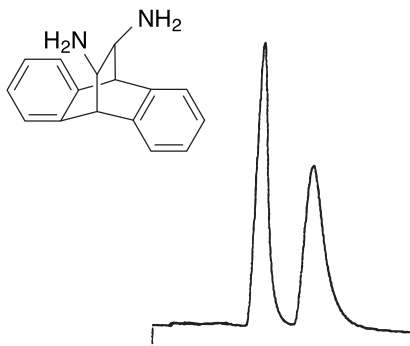
## Dexmedetomidine (Enriched)

**Column:** (S,S) Whelk-O 2,  
10  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
Hexane/Ethanol  
+ 10 mM Ammonium Acetate  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
**k':** 3.41  
 **$\alpha$ :** 1.39  
**Catalog #:** 1-786415-300



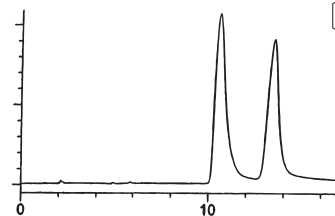
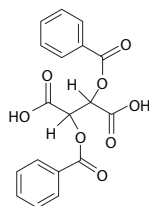
## trans-11,12-Diamino-9,10-dihydro-9,10-ethanoanthracene

**Column:** ChiroSil RCA(+),  
5  $\mu\text{m}$ , 15 cm x 4.6 mm  
**Mobile Phase:** (80/20)  
CH<sub>2</sub>OH/H<sub>2</sub>O  
+ 0.1% Phosphoric acid  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 220 nm  
**Run Time:** 10.7 min  
**k':** 3.22  
 **$\alpha$ :** 1.65  
**Catalog #:** 1-799001-300



## 2,3-Dibenzoyl-Tartaric Acid

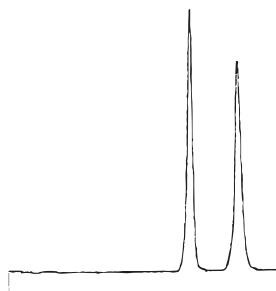
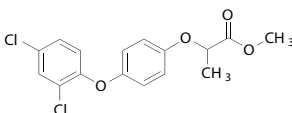
**Column:** (R,R) ULMO,  
10  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
Hexane/Ethanol +  
10 mM Ammonium Acetate  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**k':** 4.87  
 **$\alpha$ :** 1.33  
**Catalog #:** 1-787400-300



## Diclofop Methyl

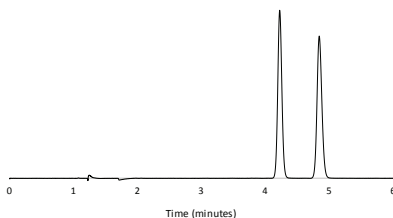
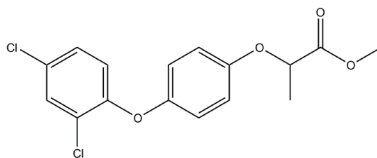
Herbicide

**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** 100% Hexane  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 30 min  
**k':** 14.19  
 **$\alpha$ :** 1.30  
**Catalog #:** 1-780101-300, 1-780201-300



## Diclofop Methyl

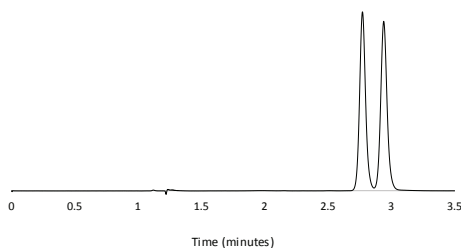
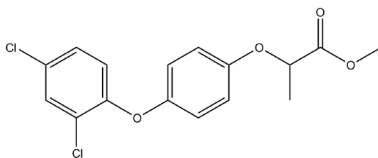
**Column:** Reflect I-Cellulose B,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10) CO<sub>2</sub>/Methanol  
**Flow Rate:** 3.0 mL/min  
**Temperature:** 30 °C  
**Pressure:** 150 bar  
**Detection:** UV 210 nm  
**k':** 3.22  
 **$\alpha$ :** 1.19  
**CAS#:** 51338-27-3  
**Catalog #:** 1-592204-300





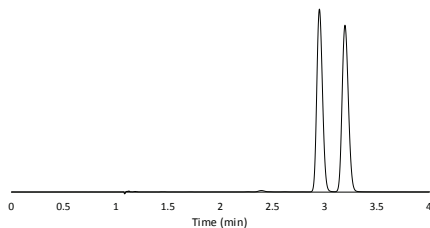
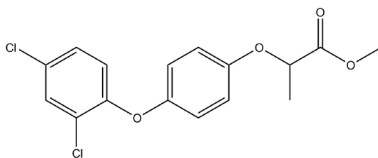
## Diclofop Methyl

**Column:** Reflect I-Cellulose C,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (95/5) CO<sub>2</sub>/Methanol  
**Flow Rate:** 3.0 mL/min  
**Temperature:** 30 °C  
**Pressure:** 150 bar  
**Detection:** UV 210 nm  
**k'**: 1.77  
 **$\alpha$ :** 1.09  
**CAS#:** 51338-27-3  
**Catalog #:** 1-593204-300



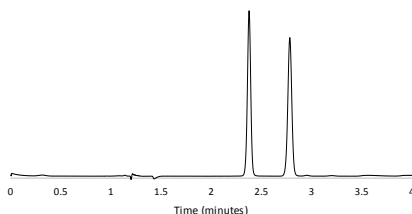
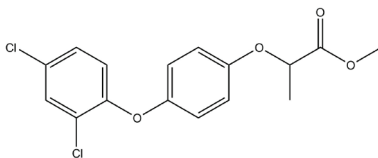
## Diclofop Methyl

**Column:** Reflect C-Amylose A,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10) CO<sub>2</sub>/Methanol  
**Flow Rate:** 3.0 mL/min  
**Temperature:** 30 °C  
**Pressure:** 150 bar  
**Detection:** UV 210 nm  
**k'**: 1.94  
 **$\alpha$ :** 1.13  
**CAS#:** 51338-27-3  
**Catalog #:** 1-580204-300



## Diclofop Methyl

**Column:** Reflect C-Cellulose B,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10) CO<sub>2</sub>/IPA  
**Flow Rate:** 3.0 mL/min  
**Temperature:** 30 °C  
**Pressure:** 150 bar  
**Detection:** UV 210 nm  
**k'**: 1.37  
 **$\alpha$ :** 1.30  
**CAS#:** 51338-27-3  
**Catalog #:** 1-590204-300



## Dihydroquinazolinones

*6,7-dimethoxy-3-(tetrahydro-2-furanylmethyl)-2,4(1H,3H)-quinazolidinedione*

**Column:** RegisPack, 5  $\mu\text{m}$ ,  
25 cm x 4.6 mm

**Mobile Phase:** (85/15)  
Hexane/IPA

**Flow Rate:** 2.0 mL/min

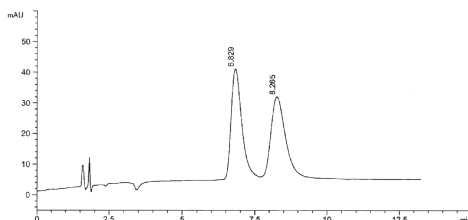
**Detection:** UV 220 nm

**k'1:** 3.71

**k'2:** 4.70

**$\alpha$ :** 1.27

**Catalog #:** 1-783104-300



## Dihydroquinazolinones

*6,7-dimethoxy-3-(tetrahydro-2-furanylmethyl)-2,4(1H,3H)-quinazolidinedione*

**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (80/20)  
Hexane/Ethanol

**Flow Rate:** 1.5 mL/min

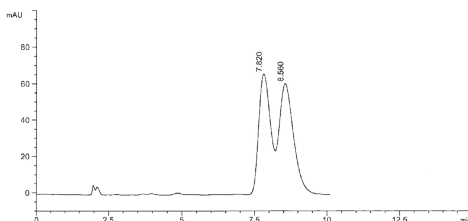
**Detection:** UV 220 nm

**k'1:** 3.12

**k'2:** 3.51

**$\alpha$ :** 1.13

**Catalog #:** 1-784104-300



## Dihydroquinazolinones

*1-allyl-1'H-spiro[indole-3,2'-quinazoline]-2,4'(1H,3'H)-dione*

**Column:** (S,S) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (70/30)  
Hexane/Ethanol

**Flow Rate:** 2.0 mL/min

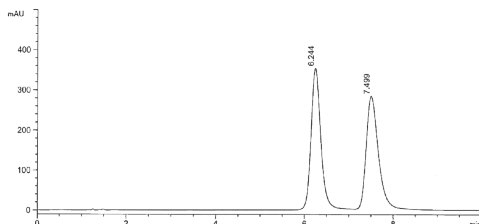
**Detection:** UV 220 nm

**k'1:** 3.30

**k'2:** 4.17

**$\alpha$ :** 1.26

**Catalog #:** 1-780101-300



## Dihydroquinazolinones

*1-allyl-1'H-spiro[indole-3,2'-quinazoline]-2,4'(1H,3'H)-dione*

**Column:** Whelk-O 1, 5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (75/25)

CO<sub>2</sub>/Ethanol

**Flow Rate:** 4.0 mL/min

**Temperature:** 40 °C

**Pressure:** 125 bar

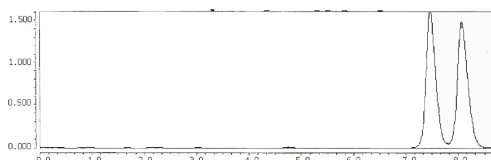
**Detection:** UV 254 nm

**k'<sub>1</sub>:** 8.97

**k'<sub>2</sub>:** 9.76

**$\alpha$ :** 1.09

**Catalog #:** 1-780101-300, 1-780201-300



## Dihydroquinazolinones

*1-allyl-1'H-spiro[indole-3,2'-quinazoline]-2,4'(1H,3'H)-dione*

**Column:** RegisPack,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (50/50)

Hexane/Ethanol

**Flow Rate:** 1.5 mL/min

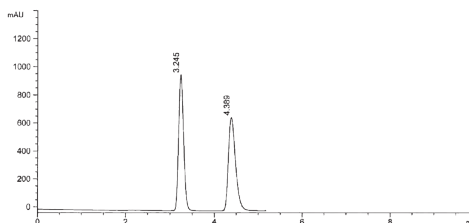
**Detection:** UV 220 nm

**k'<sub>1</sub>:** 0.71

**k'<sub>2</sub>:** 1.31

**$\alpha$ :** 1.85

**Catalog #:** 1-783104-300



## Dihydroquinazolinones

*1-allyl-1'H-spiro[indole-3,2'-quinazoline]-2,4'(1H,3'H)-dione*

**Column:** RegisPack, 5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (80/20)

CO<sub>2</sub>/Ethanol

**Flow Rate:** 4.0 mL/min

**Temperature:** 40 °C

**Pressure:** 125 bar

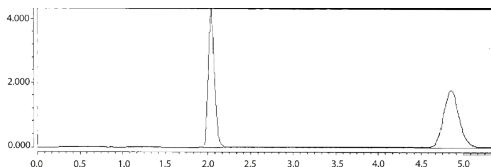
**Detection:** UV 254 nm

**k'<sub>1</sub>:** 1.72

**k'<sub>2</sub>:** 5.48

**$\alpha$ :** 3.19

**Catalog #:** 1-783104-300



## Dihydroquinazolinones

*1-allyl-1'H-spiro[indole-3,2'-quinazoline]-2,4'(1H,3'H)-dione*

**Column:** RegisCell,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (70/30)

Hexane/Ethanol

**Flow Rate:** 1.5 mL/min

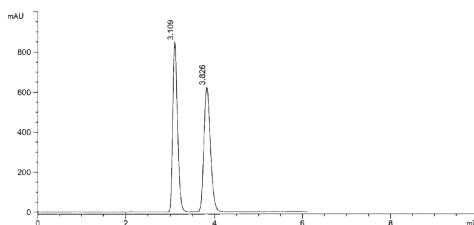
**Detection:** UV 220 nm

**k':** 0.64

**k':** 1.02

**$\alpha$ :** 1.59

**Catalog #:** 1-784104-300



## Dihydroquinazolinones

*1-allyl-1'H-spiro[indole-3,2'-quinazoline]-2,4'(1H,3'H)-dione*

**Column:** RegisCell, 5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (80/20)

CO<sub>2</sub>/Ethanol

**Flow Rate:** 4.0 mL/min

**Temperature:** 40 °C

**Pressure:** 125 bar

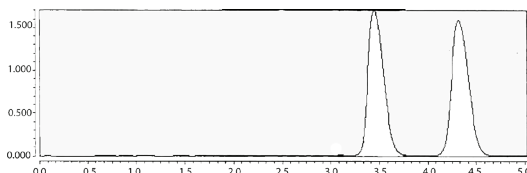
**Detection:** UV 254 nm

**k':** 3.60

**k':** 4.76

**$\alpha$ :** 1.32

**Catalog #:** 1-784104-300



## Dihydroquinazolinones

*1-propyl-1'H-spiro[indole-3,2'-quinazoline]-2,4'(1H,3'H)-dione*

**Column:** (S,S) Whelk-O 1,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (65/35)

Hexane/Ethanol

**Flow Rate:** 1.5 mL/min

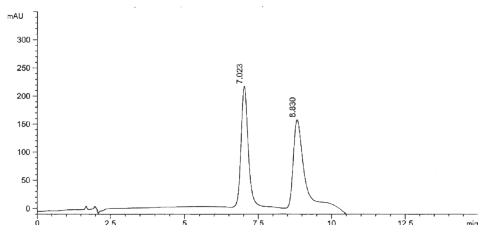
**Detection:** UV 220 nm

**k':** 2.70

**k':** 3.65

**$\alpha$ :** 1.35

**Catalog #:** 1-780101-300



## Dihydroquinazolinones

*1-propyl-1'H-spiro[indole-3,2'-quinazoline]-2,4'(1H,3'H)-dione*

**Column:** Whelk-O 1, 5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (75/25) CO<sub>2</sub>/Ethanol

**Flow Rate:** 4.0 mL/min

**Temperature:** 40 °C

**Pressure:** 124 bar

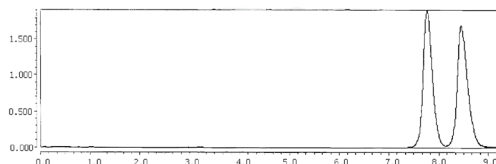
**Detection:** UV 254 nm

**k'<sub>1</sub>:** 9.36

**k'<sub>2</sub>:** 10.28

**$\alpha$ :** 1.10

**Catalog #:** 1-780101-300



## Dihydroquinazolinones

*1-propyl-1'H-spiro[indole-3,2'-quinazoline]-2,4'(1H,3'H)-dione*

**Column:** RegisPack, 5  $\mu\text{m}$ ,  
25 cm x 4.6 mm

**Mobile Phase:** (70/30)

Hexane/Ethanol

**Flow Rate:** 1.5 mL/min

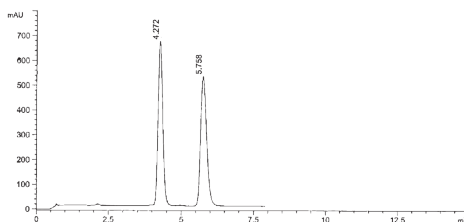
**Detection:** UV 220 nm

**k'<sub>1</sub>:** 1.25

**k'<sub>2</sub>:** 2.03

**$\alpha$ :** 1.62

**Catalog #:** 1-783104-300



## Dihydroquinazolinones

*1-propyl-1'H-spiro[indole-3,2'-quinazoline]-2,4'(1H,3'H)-dione*

**Column:** RegisPack, 5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (65/35)

CO<sub>2</sub>/CH<sub>3</sub>OH

**Flow Rate:** 4.0 mL/min

**Temperature:** 40 °C

**Pressure:** 125 bar

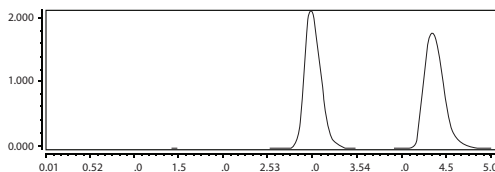
**Detection:** UV 254 nm

**k'<sub>1</sub>:** 3.01

**k'<sub>2</sub>:** 4.83

**$\alpha$ :** 1.60

**Catalog #:** 1-783104-300



## Dihydroquinazolinones

*1-propyl-1'H-spiro[indole-3,2'-quinazoline]-2,4'(1H,3'H)-dione*

**Column:** RegisCell, 5  $\mu\text{m}$ ,  
25 cm x 4.6 mm

**Mobile Phase:** (85/15)  
Hexane/Ethanol

**Flow Rate:** 1.5 mL/min

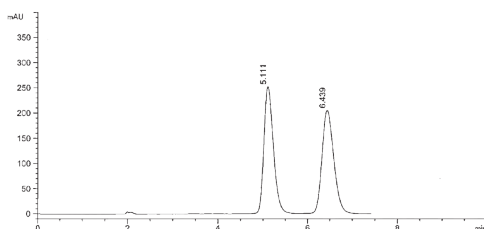
**Detection:** UV 220 nm

**k'1:** 1.69

**k'2:** 2.39

**$\alpha$ :** 1.41

**Catalog #:** 1-784104-300



## Dihydroquinazolinones

*1-propyl-1'H-spiro[indole-3,2'-quinazoline]-2,4'(1H,3'H)-dione*

**Column:** RegisCell, 5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (75/25)

CO<sub>2</sub>/Ethanol

**Flow Rate:** 4.0 mL/min

**Temp:** 40 °C

**Pressure:** 124 bar

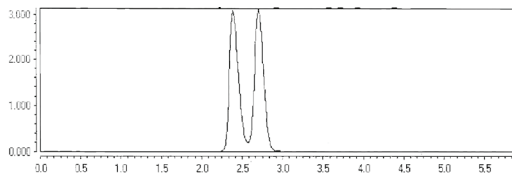
**Detection:** UV 254 nm

**k'1:** 2.19

**k'2:** 2.61

**$\alpha$ :** 1.19

**Catalog #:** 1-784104-300



## Dihydroquinazolinones

*1-isobutyl-1'H-spiro[indole-3,2'-quinazoline]-2,4'(1H,3'H)-dione*

**Column:** (S,S) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (65/35)

Hexane/Ethanol

**Flow Rate:** 1.5 mL/min

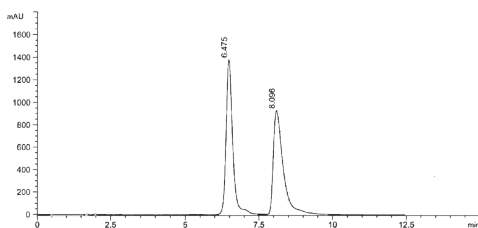
**Detection:** UV 220 nm

**k'1:** 2.41

**k'2:** 3.26

**$\alpha$ :** 1.35

**Catalog #:** 1-780101-300



## Dihydroquinazolinones

*1-isobutyl-1'H-spiro[indole-3,2'-quinazoline]-2,4'(1H,3'H)-dione*

**Column:** (S,S) Whelk-O 1, 5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (70/30) CO<sub>2</sub>/Ethanol

**Flow Rate:** 4.0 mL/min

**Temperature:** 40 °C

**Pressure:** 125 bar

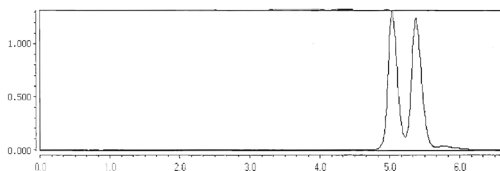
**Detection:** UV 254 nm

**k'<sub>1</sub>:** 5.72

**k'<sub>2</sub>:** 6.17

**$\alpha$ :** 1.08

**Catalog #:** 1-780101-300



## Dihydroquinazolinones

*1-isobutyl-1'H-spiro[indole-3,2'-quinazoline]-2,4'(1H,3'H)-dione*

**Column:** RegisPack,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (70/30)

Hexane/Ethanol

**Flow Rate:** 1.5 mL/min

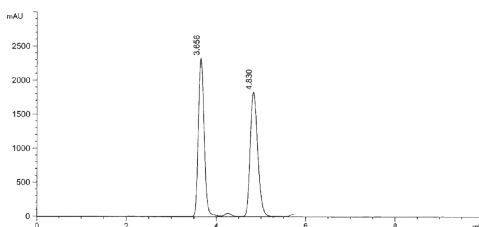
**Detection:** UV 220 nm

**k'<sub>1</sub>:** 0.92

**k'<sub>2</sub>:** 1.54

**$\alpha$ :** 1.67

**Catalog #:** 1-783104-300



## Dihydroquinazolinones

*1-isobutyl-1'H-spiro[indole-3,2'-quinazoline]-2,4'(1H,3'H)-dione*

**Column:** RegisPack,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (70/30)

CO<sub>2</sub>/Ethanol

**Flow Rate:** 4.0 mL/min

**Temperature:** 40 °C

**Pressure:** 123 bar

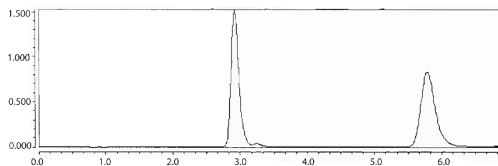
**Detection:** UV 254 nm

**k'<sub>1</sub>:** 2.89

**k'<sub>2</sub>:** 6.72

**$\alpha$ :** 2.33

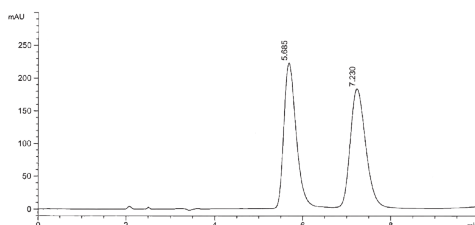
**Catalog #:** 1-783104-300



## Dihydroquinazolinones

*1-isobutyl-1'H-spiro[indole-3,2'-quinazoline]-2,4'(1H,3'H)-dione*

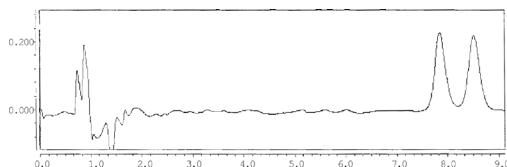
**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (85/15)  
Hexane/IPA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
**k'1:** 1.99  
**k'2:** 2.81  
 **$\alpha$ :** 1.41  
**Catalog #:** 1-784104-300



## Dihydroquinazolinones

*4,4,6-trimethyl-1'H,4H-spiro[pyrrolo[3,2,1-ij]quinoline-1,2'-quinazoline]-2,4'(3'H)-dione*

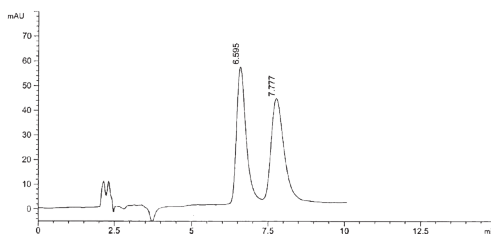
**Column:** (S,S) Whelk-O 1, 5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (75/25)  
CO<sub>2</sub>/IPA + 0.2% DEA  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40 °C  
**Pressure:** 125 bar  
**Detection:** UV 220 nm  
**k'1:** 9.47  
**k'2:** 10.36  
 **$\alpha$ :** 1.09  
**Catalog #:** 1-780101-300



## Dihydroquinazolinones

*4,4,6-trimethyl-1'H,4H-spiro[pyrrolo[3,2,1-ij]quinoline-1,2'-quinazoline]-2,4'(3'H)-dione*

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (80/20)  
Hexane/IPA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
**k'1:** 2.47  
**k'2:** 3.09  
 **$\alpha$ :** 1.25  
**Catalog #:** 1-783104-300





## Dihydroquinazolinones

*4,4,6-trimethyl-1'H,4H-spiro[pyrrolo[3,2,1-ij]quinoline-1,2'-quinazoline]-2,4'(3'H)-dione*

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (80/20)  
 $\text{CO}_2/\text{CH}_3\text{OH}$  + 0.2% DEA

**Flow Rate:** 4.0 mL/min

**Temperature:** 40 °C

**Pressure:** 125 bar

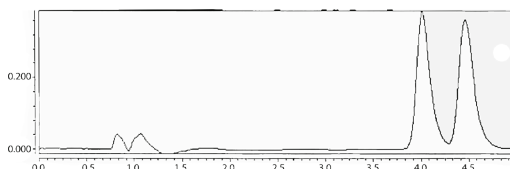
**Detection:** UV 220 nm

**$k'_1$ :** 4.36

**$k'_2$ :** 4.96

**$\alpha$ :** 1.14

**Catalog #:** 1-783104-300



## Dihydroquinazolinones

*4,4,6-trimethyl-1'H,4H-spiro[pyrrolo[3,2,1-ij]quinoline-1,2'-quinazoline]-2,4'(3'H)-dione*

**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (85/15)  
Hexane/Ethanol

**Flow Rate:** 1.5 mL/min

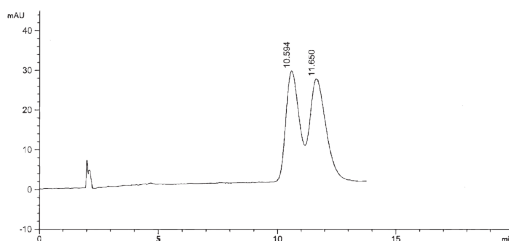
**Detection:** UV 220 nm

**$k'_1$ :** 4.58

**$k'_2$ :** 5.13

**$\alpha$ :** 1.12

**Catalog #:** 1-784104-300



## Dihydroquinazolinones

*4,4,6-trimethyl-1'H,4H-spiro[pyrrolo[3,2,1-ij]quinoline-1,2'-quinazoline]-2,4'(3'H)-dione*

**Column:** RegisCell, 5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (75/25)

$\text{CO}_2/\text{IPA}$  + 0.2% DEA

**Flow Rate:** 4.0 mL/min

**Temperature:** 40 °C

**Pressure:** 125 bar

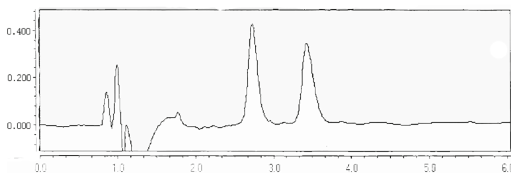
**Detection:** UV 220 nm

**$k'_1$ :** 2.64

**$k'_2$ :** 3.57

**$\alpha$ :** 1.35

**Catalog #:** 1-784104-300



## Dihyrotetrabenazine

**Column:** (S,S) Whelk-O 1,  
10  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (60/40)  
Hexane/IPA + 0.1% TFA

**Flow Rate:** 1.5 mL/min

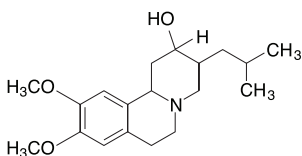
**Detection:** UV 280 nm

**Run Time:** 9.3 min

**k':** 2.50

**$\alpha$ :** 1.65

**Catalog #:** 1-786515-300



## r-7,t-8-Dihydroxy-t-9, 10-epoxy-7,8,9,10-tetrahydrobenzo[a]pyrene

**Column:** (R,R)  $\beta$ -Gem 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (60/40)  
Hexane/EtOH

**Flow Rate:** 1.0 mL/min

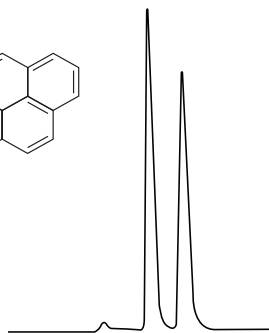
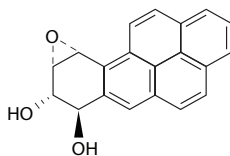
**Detection:** UV 254 nm

**Run Time:** 14 min

**k':** 3.18

**$\alpha$ :** 1.25

**Catalog #:** 1-731043-300



## Dimethenamid-P

**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (95/5)  
Hexane/IPA

**Flow Rate:** 2.0 mL/min

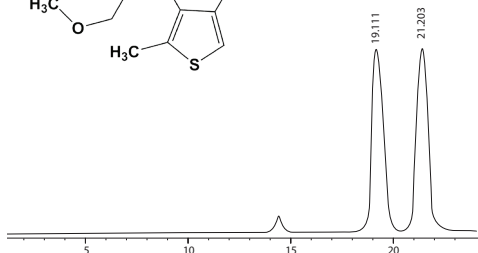
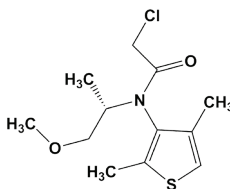
**Detection:** UV 237 nm

**k':** 12.18

**$\alpha$ :** 1.12

**Catalog #:** 1-780101-300;

1-780201-300



## 3,5-Dimethylanilide-R,S-Ibuprofen

**Column:** (3R,4S) Pirkle 1-J,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (85/15)

Hexane/IPA

**Flow Rate:** 1.0 mL/min

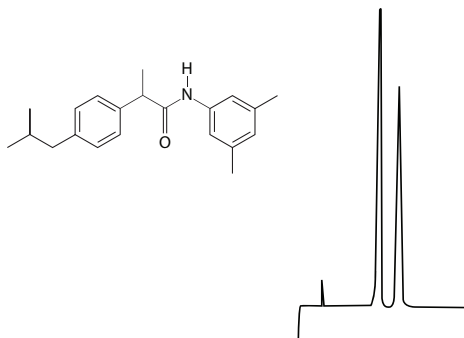
**Detection:** UV 254 nm

**Run Time:** 13.0 min

**k'**: 2.91

**$\alpha$ :** 1.36

**Catalog #:** 1-731044-300



## Dinocap

*Fungicide (mixture of isomers)*

**Column:** Whelk-O 1,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

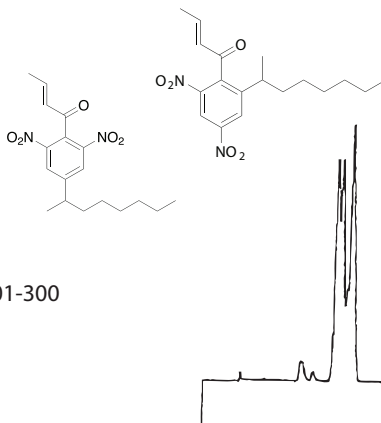
**Mobile Phase:** 100% Hexane

**Flow Rate:** 1.0 mL/min

**Detection:** UV 254 nm

**Run Time:** 15 min

**Catalog #:** 1-780101-300, 1-780201-300



## Dinoseb

**Column:** Reflect C-Amylose A,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (95/5) CO<sub>2</sub>/

Methanol

**Flow Rate:** 3.0 mL/min

**Temperature:** 30 °C

**Pressure:** 150 bar

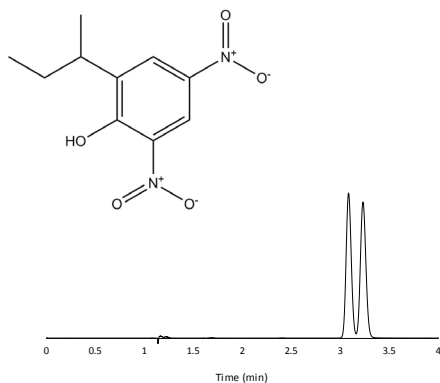
**Detection:** UV 210 nm

**k'**: 2.08

**$\alpha$ :** 1.08

**CAS #:** 88-85-7

**Catalog #:** 1-580204-300



## Diperodon

**Column:** Reflect C-Amylose A,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (100/0.1)

Ethanol/DEA

**Flow Rate:** 1.0 mL/min

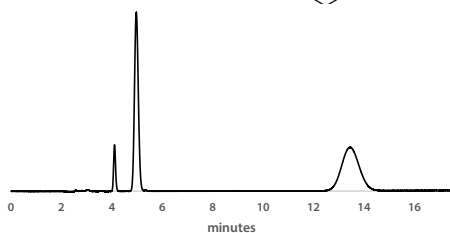
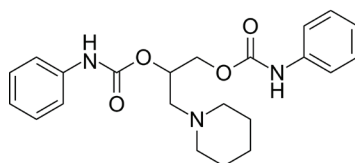
**Detection:** UV 254 nm

**k':** 0.60

**$\alpha$ :** 5.55

**CAS #:** 101-08-6

**Catalog #:** 1-580204-300



## Diperodon

**Column:** Reflect C-Cellulose B,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (100/0.1)

Ethanol/DEA

**Flow Rate:** 1.0 mL/min

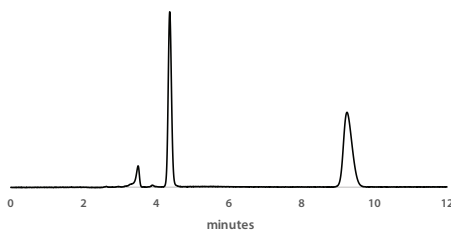
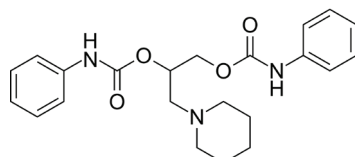
**Detection:** UV 254 nm

**k':** 1.18

**$\alpha$ :** 3.06

**CAS #:** 101-08-6

**Catalog #:** 1-590204-300



## Diperodon

**Column:** Reflect I-Cellulose B,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (100/0.1)

Ethanol/DEA

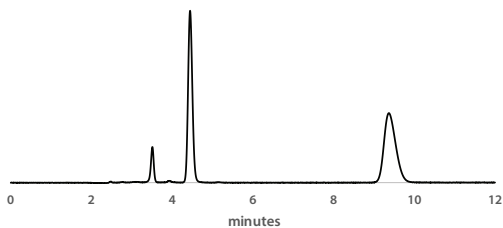
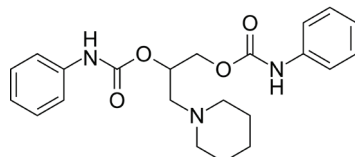
**Flow Rate:** 1.0 mL/min

**Detection:** UV 254 nm

**k':** .48

**$\alpha$ :** 4.44

**Catalog #:** 1-592204-30



## Disopyramide

**Column:** Reflect C-Amylose A,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (95/5/0.1)  
Hexane/IPA/DEA

**Flow Rate:** 1.5 mL/min

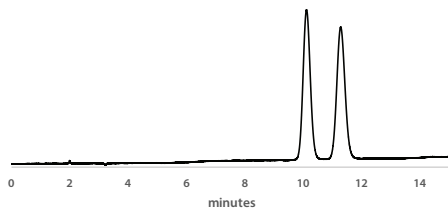
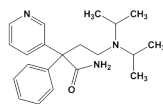
**Detection:** UV 254 nm

**k':** 4.04

**$\alpha$ :** 1.14

**CAS #:** 3737-09-5

**Catalog #:** 1-580204-300



## Disopyramide

**Column:** Reflect C-Cellulose B,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (95/5/0.1)  
Hexane/IPA/DEA

**Flow Rate:** 1.5 mL/min

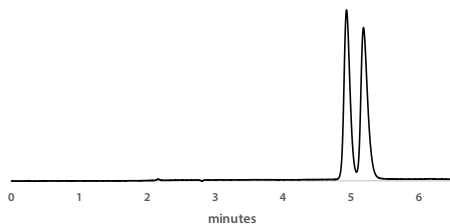
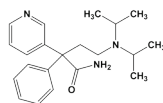
**Detection:** UV 254 nm

**k':** 1.46

**$\alpha$ :** 1.09

**CAS #:** 3737-09-5

**Catalog #:** 1-590204-300



## Disopyramide

**Column:** Reflect I-Amylose A,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (95/5/0.1)  
Hexane/IPA/DEA

**Flow Rate:** 1.5 mL/min

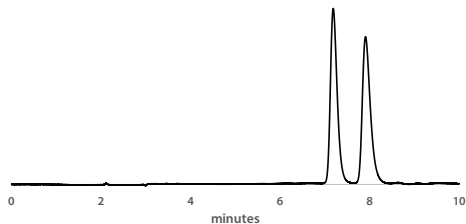
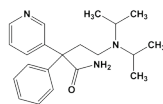
**Detection:** UV 254 nm

**k':** 2.59

**$\alpha$ :** 1.14

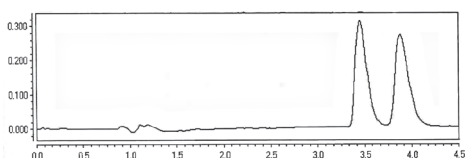
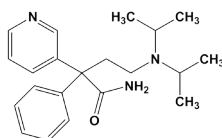
**CAS #:** 3737-09-5

**Catalog #:** 1-591204-300



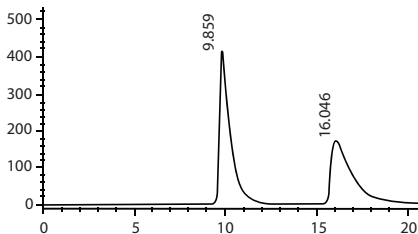
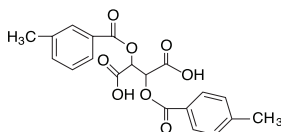
## Disopyramide

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (80/20)  
CO<sub>2</sub>/IPA + 0.5% DEA  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40 °C  
**Pressure:** 125 bar  
**Detection:** UV 254 nm  
**k'**: 3.59  
 **$\alpha$** : 1.16  
**Catalog #:** 1-783104-300



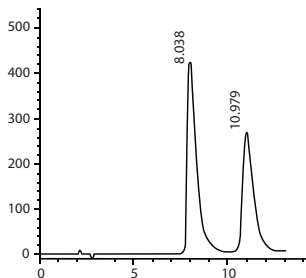
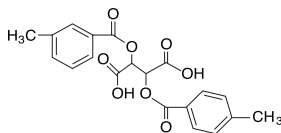
## Ditoluoyltartaric Acid

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
Hexane/Ethanol + 0.1% TFA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**k'**: 4.11  
 **$\alpha$** : 1.78  
**Catalog #:** 1-783104-300



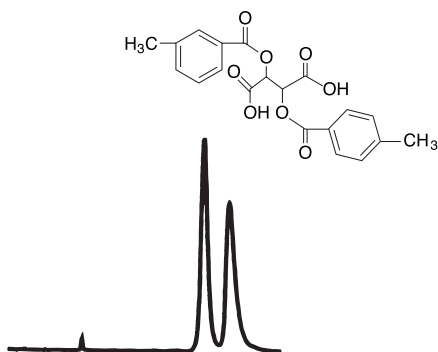
## Ditoluoyltartaric Acid

**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (95/5)  
Hexane/Ethanol + 0.1% TFA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**k'**: 3.16  
 **$\alpha$** : 1.48  
**Catalog #:** 1-784104-300



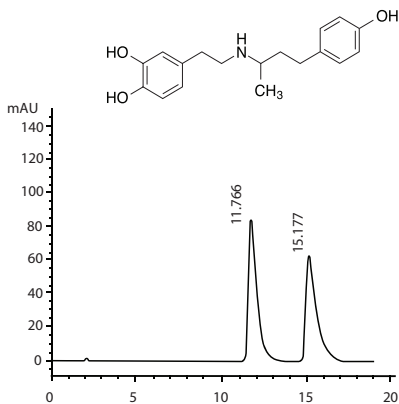
## Ditoluoyltartaric Acid

**Column:** (S,S) ULMO,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
Hexane/IPA + 0.1% TFA  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 12.0 min  
**k':** 2.47  
 **$\alpha$ :** 1.19  
**Reference:** 48  
**Catalog #:** 1-787100-300



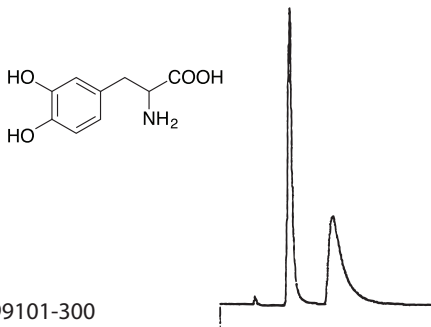
## Dobutamine

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
Hexane/Ethanol + 0.1% TFA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 280 nm  
**k':** 5.19  
 **$\alpha$ :** 1.35  
**CAS #:** 34368-04-2  
**Catalog #:** 1-783104-300



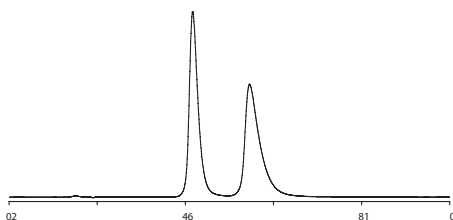
## Dihydroxyphenylalanine

**Column:** ChiroSil,  
5  $\mu\text{m}$ , 15 cm x 4.6 mm  
**Mobile Phase:** (70/30)  
 $\text{CH}_3\text{OH}/\text{H}_2\text{O}$   
+0.01% Phosphoric acid  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 210 nm  
**Run Time:** 5.5 min  
**k':** 0.97  
 **$\alpha$ :** 2.30  
**Catalog #:** 1-799001-300, 1-799101-300



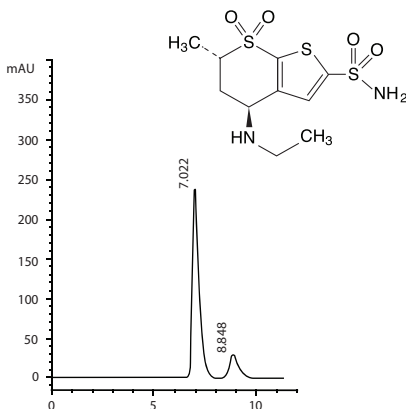
## DL-Dihydroxyphenylalanine

**Column:** ChiroSil ME RCA(+),  
 5  $\mu\text{m}$ , 15 cm x 4.6 mm  
**Mobile Phase:** (30/70)  
 0.01% Phosphoric Acid / MeOH  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 210 nm  
**Temperature:** 20  $^{\circ}\text{C}$   
**k':** 1.20  
 **$\alpha$ :** 1.57  
**Catalog #:** 1-788001-300



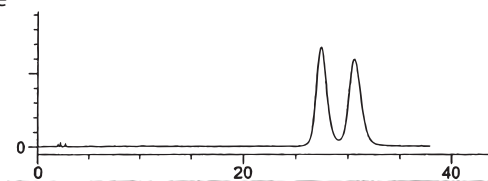
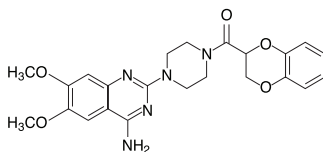
## Enriched Dorzolamide

**Column:** RegisCell,  
 5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (80/20)  
 Hexane/Ethanol + 0.1% DEA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**k':** 2.70  
 **$\alpha$ :** 1.35  
**CAS #:** 120279-96-1  
**Catalog #:** 1-784104-300



## Doxazosin

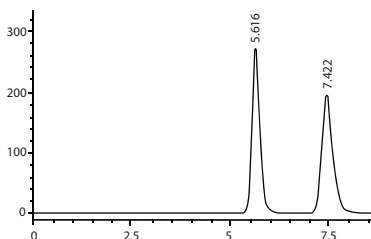
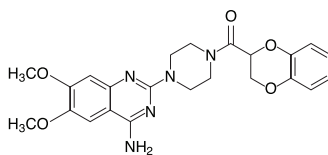
**Column:** (S,S) Whelk-O 1,  
 10  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (66/29/5)  
 Hexane/ $\text{CH}_2\text{Cl}_2$ /Ethanol  
 + 5 mM Ammonium Acetate  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**k':** 14.2  
 **$\alpha$ :** 1.13  
**Catalog #:** 1-786615-300





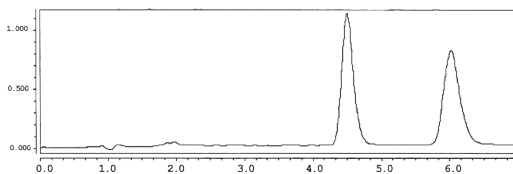
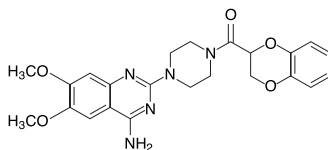
## Doxazosin

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (65/35)  
Hexane/IPA + 0.1% DEA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
 **$k'$ :** 1.96  
 **$\alpha$ :** 1.49  
**CAS #:** 77883-43-3  
**Catalog #:** 1-783104-300



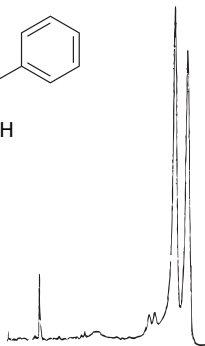
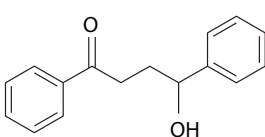
## Doxazosin

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (65/35)  
 $\text{CO}_2$ /IPA + 0.5% DEA  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40  $^\circ\text{C}$   
**Pressure:** 125 bar  
**Detection:** UV 254 nm  
 **$k'$ :** 5.00  
 **$\alpha$ :** 1.41  
**Catalog #:** 1-783104-300



## DPHB

**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (94/6)  
Hexane/EtOH  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 41 min  
**Reference:** 26  
**Catalog #:** 1-780101-300,  
1-780201-300



## Dropropizine

**Column:** Reflect C-Amylose A,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (70/30/0.1)

Hexane/Ethanol/DEA

**Flow Rate:** 1.5 mL/min

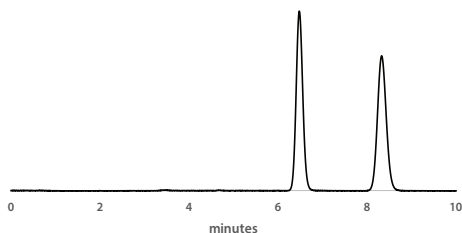
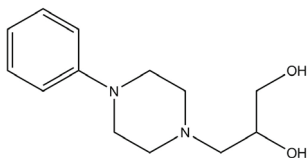
**Detection:** UV 254 nm

**$k'$ :** 2.23

**$\alpha$ :** 1.41

**CAS #:** 17692-31-8

**Catalog #:** 1-580204-300



## Dropropizine

**Column:** Reflect C-Cellulose B,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (90/10/0.1)

Hexane/Ethanol/DEA

**Flow Rate:** 1.5 mL/min

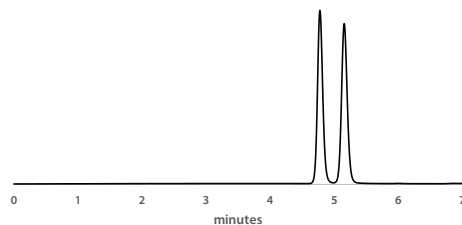
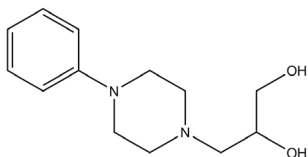
**Detection:** UV 254 nm

**$k'$ :** 1.38

**$\alpha$ :** 1.14

**CAS #:** 17692-31-8

**Catalog #:** 1-590204-300



## Dropropizine

**Column:** Reflect I-Amylose A,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (70/30/0.1)

Hexane/Ethanol/DEA

**Flow Rate:** 1.5 mL/min

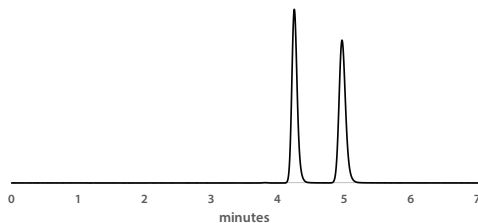
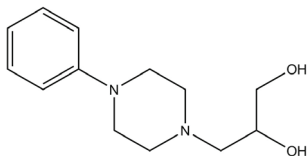
**Detection:** UV 254 nm

**$k'$ :** 1.12

**$\alpha$ :** 1.32

**CAS #:** 17692-31-8

**Catalog #:** 1-591204-300



## Dropropizine

**Column:** Reflect I-Cellulose B,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (90/10/0.1)  
Hexane/Ethanol/Acetic Acid

**Flow Rate:** 1.5 mL/min

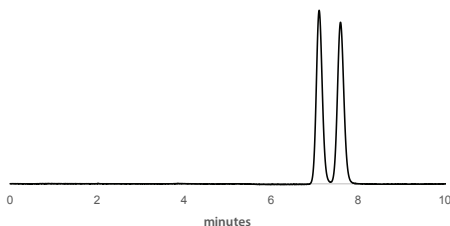
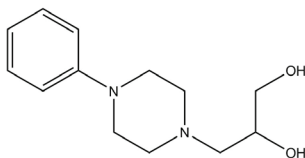
**Detection:** UV 254 nm

**$k'$ :** 2.55

**$\alpha$ :** 1.10

**CAS #:** 17692-31-8

**Catalog #:** 1-592204-300



## Dropropizine

**Column:** Reflect I-Cellulose J,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (70/30/0.1)  
Hexane/Ethanol/DEA

**Flow Rate:** 1.5 mL/min

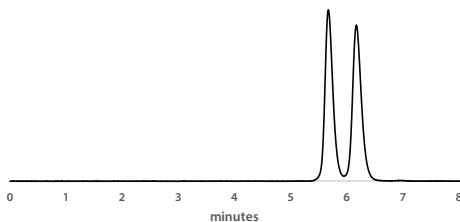
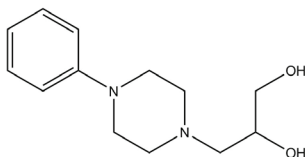
**Detection:** UV 254 nm

**$k'$ :** 1.83

**$\alpha$ :** 1.14

**CAS #:** 17692-31-8

**Catalog #:** 1-594204-300



## Dylox

**Column:** Reflect I-Cellulose C,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (90/10) CO<sub>2</sub>/Methanol

**Flow Rate:** 3.0 mL/min

**Temperature:** 30 °C

**Pressure:** 150 bar

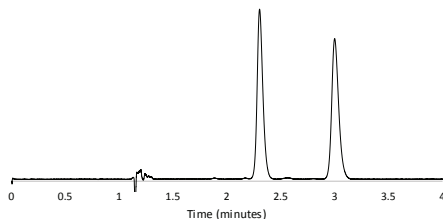
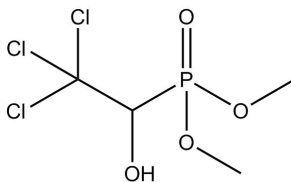
**Detection:** UV 210 nm

**$k'$ :** 1.30

**$\alpha$ :** 1.53

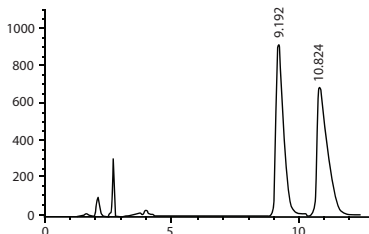
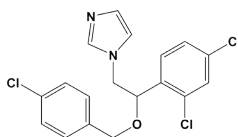
**CAS #:** 52-68-6

**Catalog #:** 1-593204-300



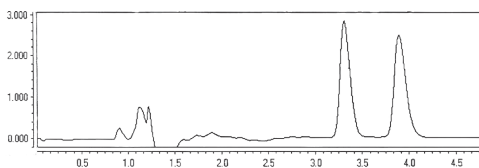
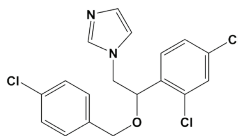
## Econazole

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
Hexane/IPA + 0.1% DEA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
**k'**: 3.84  
 **$\alpha$ :** 1.22  
**CAS #:** 27220-47-9  
**Catalog #:** 1-783104-300



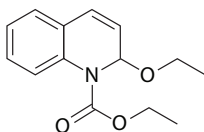
## Econazole

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (75/25)  
 $\text{CO}_2$ /IPA + 0.5% DEA  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40  $^\circ\text{C}$   
**Pressure:** 125 bar  
**Detection:** UV 220 nm  
**k'**: 3.42  
 **$\alpha$ :** 1.23  
**Catalog #:** 1-783104-300



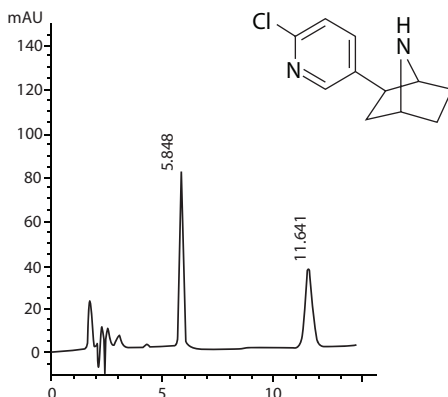
## EEDQ

**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
Hexane/IPA  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 25 min  
**k'**: 1.53  
 **$\alpha$ :** 2.13  
**Catalog #:** 1-780101-300, 1-780201-300



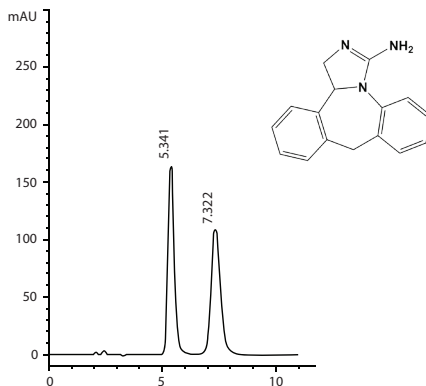
## Epibatidine

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** 100%  
Ethanol + 0.1% DEA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
**k'**: 2.08  
 **$\alpha$ :** 2.44  
**CAS #:** 140111-52-0  
**Catalog #:** 1-783104-300



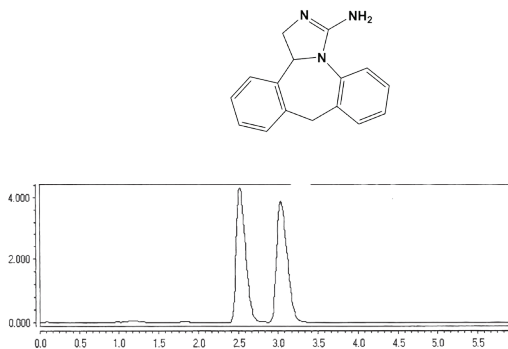
## Epinastine

**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (85/15)  
Hexane/IPA + 0.1% DEA  
+ 0.1% TFA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**k'**: 1.81  
 **$\alpha$ :** 2.85  
**CAS #:** 80012-43-7  
**Catalog #:** 1-784104-300



## Epinastine

**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (80/20)  
CO<sub>2</sub>/CH<sub>3</sub>OH + 0.5% DEA  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40 °C  
**Pressure:** 125 bar  
**Detection:** UV 220 nm  
**k'**: 2.37  
 **$\alpha$ :** 1.29  
**Catalog #:** 1-784104-300



## EPN

**Column:** Reflect I-Amylose A,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (95/5)  $\text{CO}_2$ /IPA

**Flow Rate:** 3.0 mL/min

**Temperature:** 30  $^\circ\text{C}$

**Pressure:** 150 bar

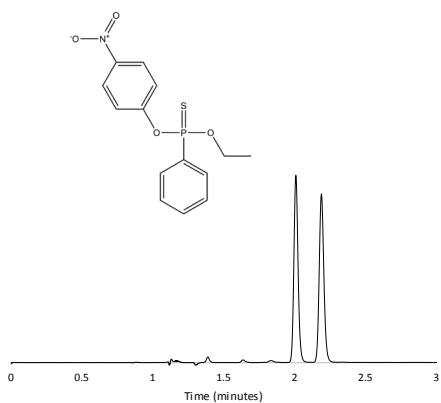
**Detection:** UV 210 nm

**$k'$ :** 1.00

**$\alpha$ :** 1.18

**CAS #:** 2104-64-5

**Catalog #:** 1-591204-300



## EPN

**Column:** Reflect I-Cellulose J,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (95/5)  $\text{CO}_2$ /IPA

**Flow Rate:** 3.0 mL/min

**Temperature:** 30  $^\circ\text{C}$

**Pressure:** 150 bar

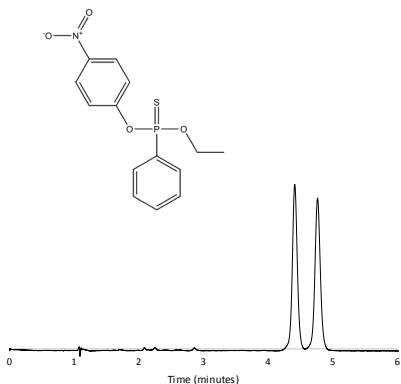
**Detection:** UV 210 nm

**$k'$ :** 3.40

**$\alpha$ :** 1.10

**CAS #:** 2104-64-5

**Catalog #:** 1-594204-300



## EPN

**Column:** Reflect C-Amylose A,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (95/5)  $\text{CO}_2$ /IPA

**Flow Rate:** 3.0 mL/min

**Temperature:** 30  $^\circ\text{C}$

**Pressure:** 150 bar

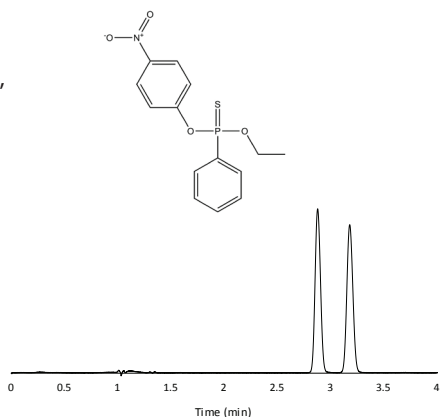
**Detection:** UV 210 nm

**$k'$ :** 1.88

**$\alpha$ :** 1.16

**CAS #:** 2104-64-5

**Catalog #:** 1-580204-300



## EPN

**Column:** Reflect C-Cellulose B,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (95/5)  $\text{CO}_2$ /IPA

**Flow Rate:** 3.0 mL/min

**Temperature:** 30  $^\circ\text{C}$

**Pressure:** 150 bar

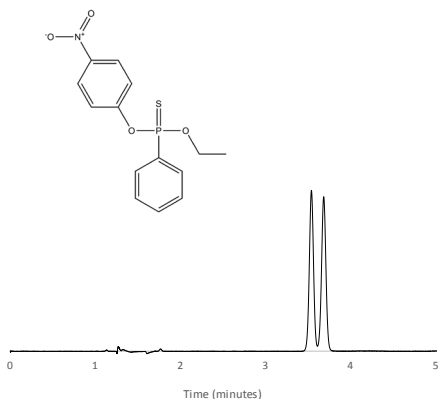
**Detection:** UV 210 nm

**$k'$ :** 2.53

**$\alpha$ :** 1.06

**CAS #:** 2104-64-5

**Catalog #:** 1-590204-300



## Ethionine

**Column:** ChiroSil,

5  $\mu\text{m}$ , 15 cm x 4.6 mm

**Mobile Phase:** (75/25)

$\text{CH}_3\text{OH}/\text{H}_2\text{O}$  + 0.02% Acetic Acid

**Flow Rate:** 1.0 mL/min

**Detection:** UV 210 nm

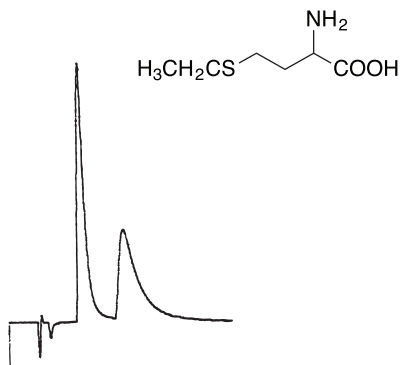
**Run Time:** 6.2 min

**$k'$ :** 1.29

**$\alpha$ :** 2.07

**Catalog #:** 1-799001-300,

1-799101-300



## Ethotoin

**Column:** (S,S) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (72/25)

Hexane/Ethanol

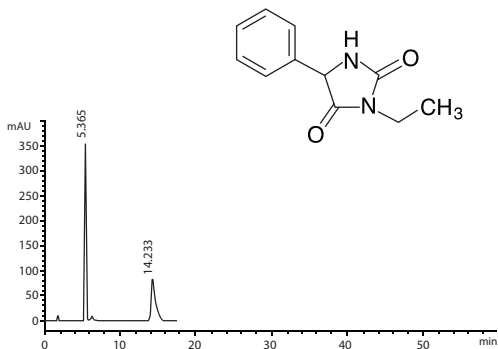
**Flow Rate:** 1.5 mL/min

**Detection:** UV 254 nm

**$k'$ :** 1.78

**$\alpha$ :** 3.62

**Catalog #:** 1-780101-300



## Ethotoin

**Column:** (S,S) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (75/25)  
Hexane/Ethanol

**Flow Rate:** 1.5 mL/min

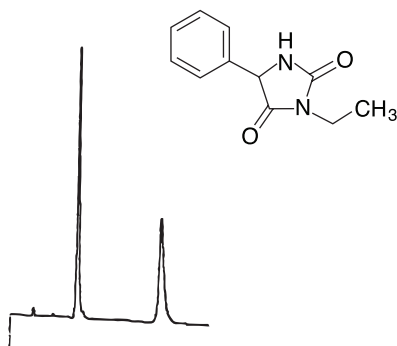
**Detection:** UV 254 nm

**Run Time:** 11.0 min

**k':** 1.65

**$\alpha$ :** 3.03

**Catalog #:** 1-780101-300



## Ethofumesate

**Column:** Reflect I-Cellulose B,  
10  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (95/5) CO<sub>2</sub>/  
Methanol

**Flow Rate:** 3.0 mL/min

**Temperature:** 30 °C

**Pressure:** 150 bar

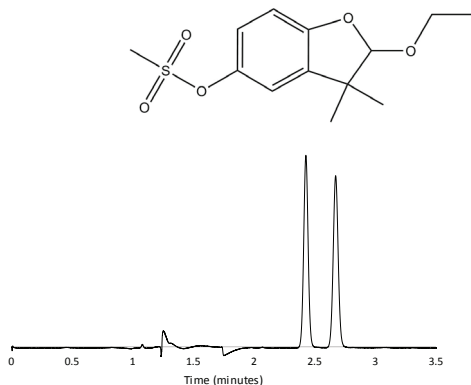
**Detection:** UV 210 nm

**k':** 1.42

**$\alpha$ :** 1.17

**CAS #:** 26225-79-6

**Catalog #:** 1-592204-300



## Ethofumesate

**Column:** Reflect C-Cellulose B,  
10  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (95/5) CO<sub>2</sub>/IPA

**Flow Rate:** 3.0 mL/min

**Temperature:** 30 °C

**Pressure:** 150 bar

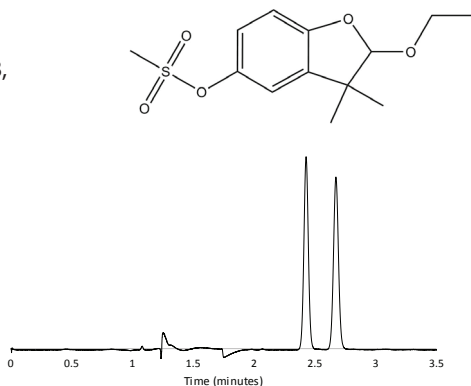
**Detection:** UV 210 nm

**k':** 1.05

**$\alpha$ :** 1.29

**CAS #:** 26225-79-6

**Catalog #:** 1-590204-300





## Ethyl-2-(p-Hydroxyphenoxy) Propionate

**Column:** (S,S) Whelk-O 1,

10  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (98/2)

Hexane/Ethanol

**Flow Rate:** 2.0 mL/min

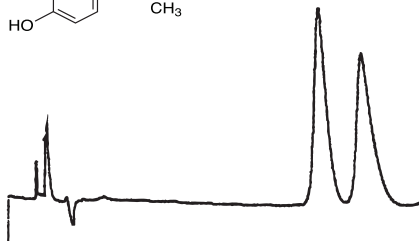
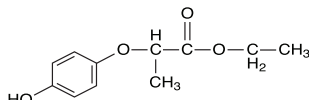
**Detection:** UV 254 nm

**Run Time:** 21.1 min

**k':** 12.72

**$\alpha$ :** 1.15

**Catalog #:** 1-786615-300



## Etodolac

**Column:** (S,S) ULMO,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (98/2)

Hexane/IPA + 0.1% TFA

**Flow Rate:** 1.0 mL/min

**Detection:** UV 254 nm

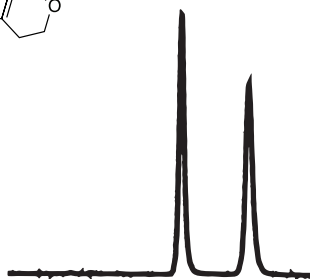
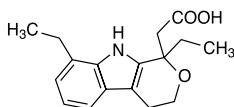
**Run Time:** 14.5 min

**k':** 2.43

**$\alpha$ :** 1.50

**Reference:** 48

**Catalog #:** 1-787100-300



## Fendiline

**Column:** RegisPack,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (95/5)

Hexane/IPA + 0.1% TFA

**Flow Rate:** 1.5 mL/min

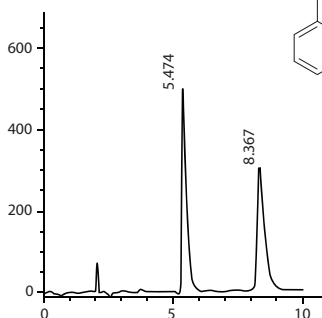
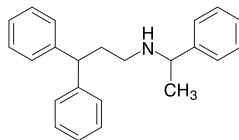
**Detection:** UV 220 nm

**k':** 1.88

**$\alpha$ :** 1.81

**CAS #:** 13042-18-7

**Catalog #:** 1-783104-300



## Fenarimol

**Column:** Reflect I-Amylose A,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (80/20)  $\text{CO}_2$ /  
Methanol

**Flow Rate:** 3.0 mL/min

**Temperature:** 30  $^\circ\text{C}$

**Pressure:** 150 bar

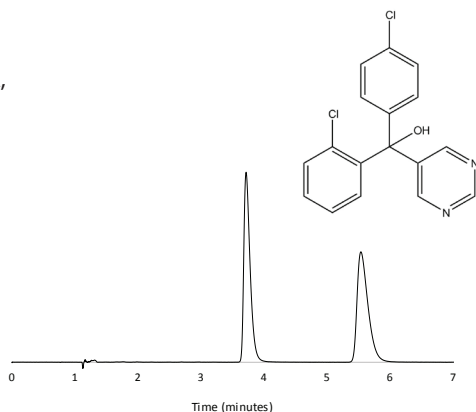
**Detection:** UV 210 nm

**$k'$ :** 2.71

**$\alpha$ :** 1.67

**CAS #:** 162707-16-6

**Catalog #:** 1-591204-300



## Fenarimol

**Column:** Reflect I-Cellulose B,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (90/20)  $\text{CO}_2$ /  
Methanol

**Flow Rate:** 3.0 mL/min

**Temperature:** 30  $^\circ\text{C}$

**Pressure:** 150 bar

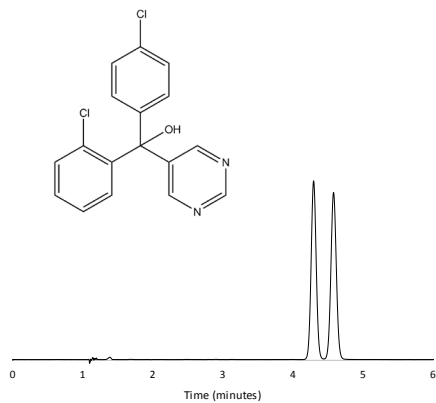
**Detection:** UV 210 nm

**$k'$ :** 3.29

**$\alpha$ :** 1.08

**CAS #:** 162707-16-6

**Catalog #:** 1-592204-300



## Fenarimol

**Column:** Reflect I-Cellulose C,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (80/20)  $\text{CO}_2$ /  
Methanol

**Flow Rate:** 3.0 mL/min

**Temperature:** 30  $^\circ\text{C}$

**Pressure:** 150 bar

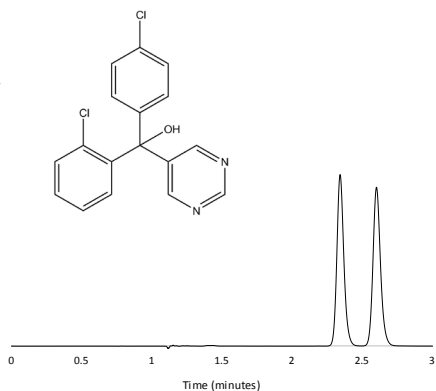
**Detection:** UV 210 nm

**$k'$ :** 1.34

**$\alpha$ :** 1.19

**CAS #:** 162707-16-6

**Catalog #:** 1-593204-300



## Fenarimol

**Column:** Reflect I-Cellulose J,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (90/20)  $\text{CO}_2$ /  
Methanol

**Flow Rate:** 3.0 mL/min

**Temperature:** 30  $^\circ\text{C}$

**Pressure:** 150 bar

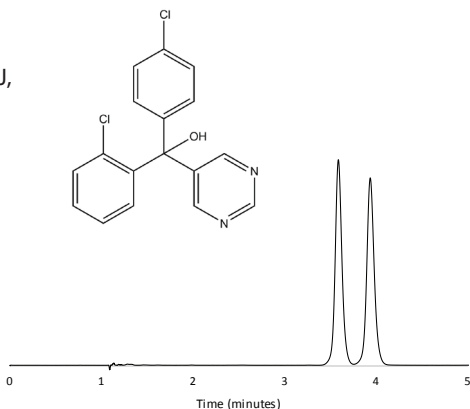
**Detection:** UV 210 nm

**$k'$ :** 2.58

**$\alpha$ :** 1.13

**CAS #:** 162707-16-6

**Catalog #:** 1-594204-300



## Fenarimol

**Column:** Reflect C-Amylose A,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (90/20)  $\text{CO}_2$ /  
Methanol

**Flow Rate:** 3.0 mL/min

**Temperature:** 30  $^\circ\text{C}$

**Pressure:** 150 bar

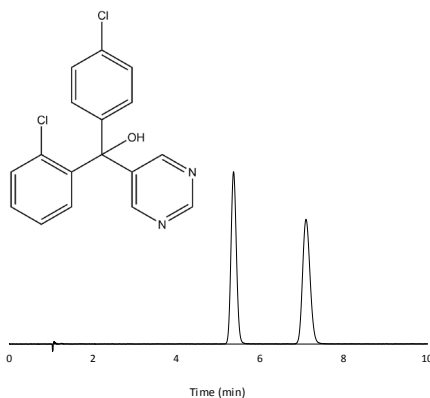
**Detection:** UV 210 nm

**$k'$ :** 4.36

**$\alpha$ :** 1.

**CAS #:** 162707-16-6

**Catalog #:** 1-580204-300



## Fenoprofen

**Column:** (S,S) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (90/10)  
Hexane/IPA + 0.1% Acetic Acid

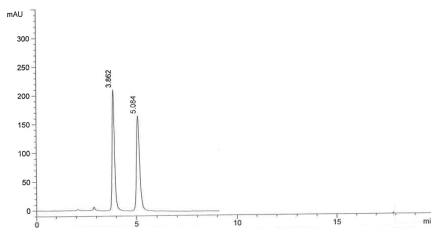
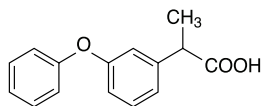
**Flow Rate:** 1.5 mL/min

**Detection:** UV 254 nm

**$k'$ :** 1.00

**$\alpha$ :** 1.63

**Catalog #:** 1-780101-300



## Fenopropfen

**Column:** (R,R) Whelk-O 1,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (98/2)

Hexane/IPA +

0.1% Acetic Acid

**Flow Rate:** 1.0 mL/min

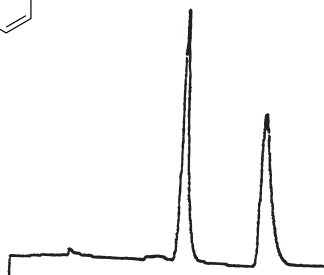
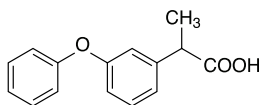
**Detection:** UV 254 nm

**Run Time:** 14.5 min

**k':** 2.62

**$\alpha$ :** 1.66

**Catalog #:** 1-780201-300



## Fenopropfen

**Column:** (S,S) Whelk-O 1,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (85/15)

CO<sub>2</sub>/Ethanol+.5% Acetic Acid

**Flow Rate:** 4.0 mL/min

**Temperature:** 40 °C

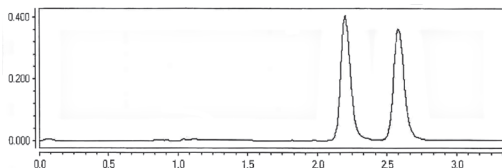
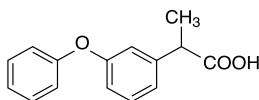
**Pressure:** 125 bar

**Detection:** UV 254 nm

**k':** 1.94

**$\alpha$ :** 1.26

**Catalog #:** 1-780101-300



## Fenopropfen

**Column:** Reflect C-Amylose A,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (90/10/0.1)

Hexane/Ethanol/Acetic Acid

**Flow Rate:** 1.5 mL/min

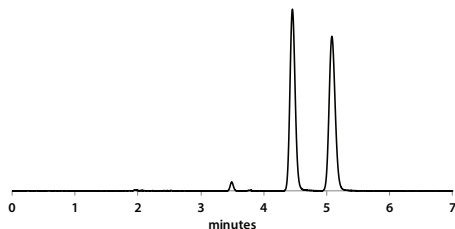
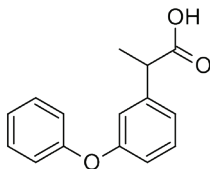
**Detection:** UV 254 nm

**k':** 1.22

**$\alpha$ :** 1.26

**CAS#:** 29679-58-1

**Catalog #:** 1-580204-300



## Fenoterol

**Column:** Reflect C-Amylose A,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (70/30/0.1)

Hexane/Ethanol/DEA

**Flow Rate:** 1.5 mL/min

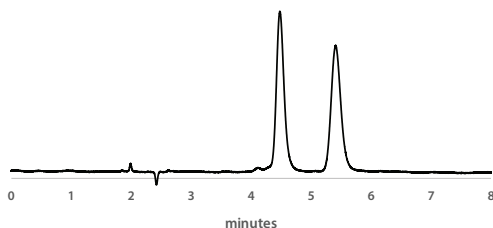
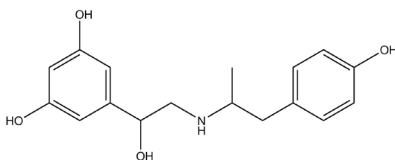
**Detection:** UV 220 nm

**k':** 1.24

**$\alpha$ :** 1.38

**CAS #:** 13392-18-2

**Catalog #:** 1-580204-300



## Fenoterol

**Column:** Reflect I-Amylose A,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (70/30/0.1)

Hexane/Ethanol/DEA

**Flow Rate:** 1.5 mL/min

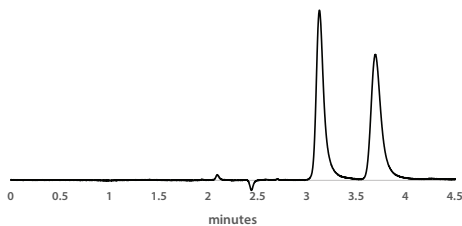
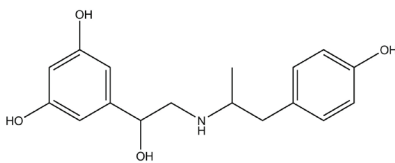
**Detection:** UV 220 nm

**k':** 0.56

**$\alpha$ :** 1.40

**CAS #:** 13392-18-2

**Catalog #:** 1-591204-300



## Fenoterol

**Column:** Reflect I-Cellulose C,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (80/20/0.1)

Hexane/2-propanol/DEA

**Flow Rate:** 1.5 mL/min

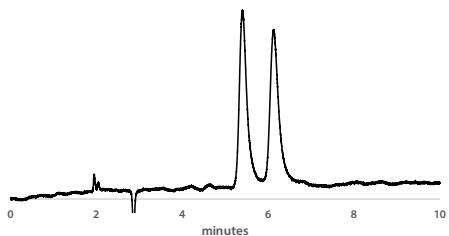
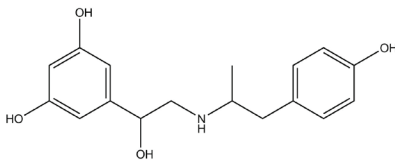
**Detection:** UV 220 nm

**k':** 1.70

**$\alpha$ :** 1.21

**CAS #:** 13392-18-2

**Catalog #:** 1-593204-300



## Fenoprop

**Column:** Reflect I-Cellulose C,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (95/5)  $\text{CO}_2$ /  
IPA+0.5% TFA

**Flow Rate:** 3.0 mL/min

**Temperature:** 30  $^\circ\text{C}$

**Pressure:** 150 bar

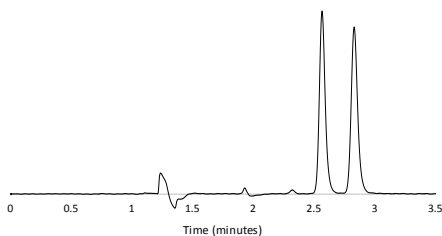
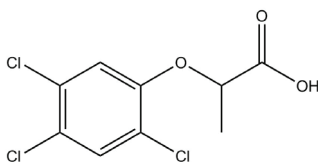
**Detection:** UV 210 nm

**$k'$ :** 1.55

**$\alpha$ :** 1.17

**CAS #:** 93-72-1

**Catalog #:** 1-593204-300



## Fenoprop

**Column:** Reflect C-Amylose A,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (90/10)  $\text{CO}_2$ /  
Methanol+0.2% TrifluoroAcetic  
Acid

**Flow Rate:** 3.0 mL/min

**Temperature:** 30  $^\circ\text{C}$

**Pressure:** 150 bar

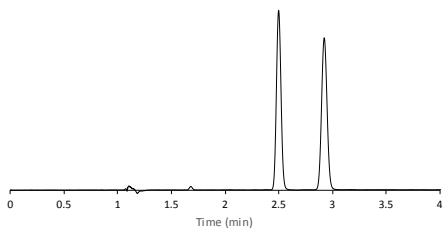
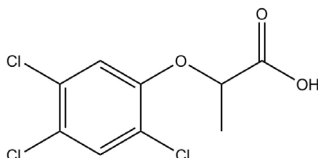
**Detection:** UV 210 nm

**$k'$ :** 1.49

**$\alpha$ :** 1.28

**CAS #:** 93-72-1

**Catalog #:** 1-580204-300



## Fenoxaprop-ethyl

**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (90/10)  
Hexane/IPA

**Flow Rate:** 1.5 mL/min

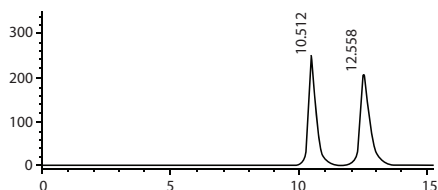
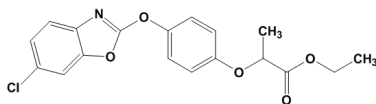
**Detection:** UV 254 nm

**$k'$ :** 4.45

**$\alpha$ :** 1.24

**CAS #:** 66441-23-4

**Catalog #:** 1-780101-300,  
1-780201-300



## Fenoxaprop-ethyl

**Column:** (R,R) DACH-DNB,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (95/5)

Hexane/IPA

**Temperature:** 20  $^{\circ}\text{C}$

**Flow Rate:** 1.0 mL/min

**Detection:** UV 254 nm

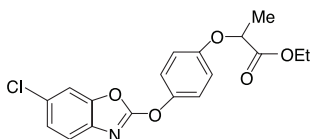
**Run Time:** 18.0 min

**$k'$ :** 4.70

**$\alpha$ :** 1.15

**Reference:** 59

**Catalog #:** 1-788101-300



## Fenoxaprop-ethyl

**Column:** Reflect I-Amylose A,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (90/10) Hexane/  
Ethanol

**Flow Rate:** 1.5 mL/min

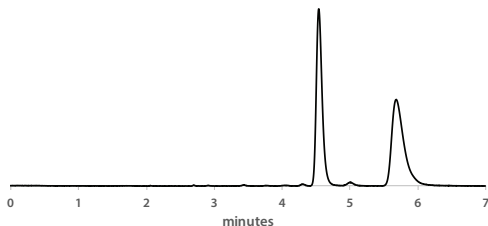
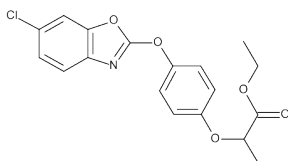
**Detection:** UV 254 nm

**$k'$ :** 1.27

**$\alpha$ :** 1.45

**CAS #:** 66441-23-4

**Catalog #:** 1-591204-300



## Fenoxaprop-ethyl

**Column:** Reflect C-Amylose A,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (80/20)  $\text{CO}_2$ /  
Methanol

**Flow Rate:** 3.0 mL/min

**Temperature:** 40  $^{\circ}\text{C}$

**Pressure:** 150 bar

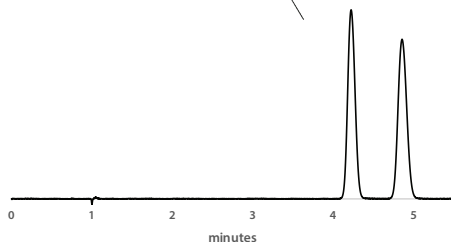
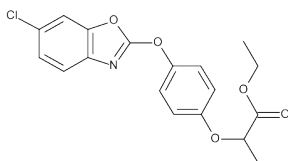
**Detection:** 3.0 mL/min

**$k'$ :** 2.03

**$\alpha$ :** 1.31

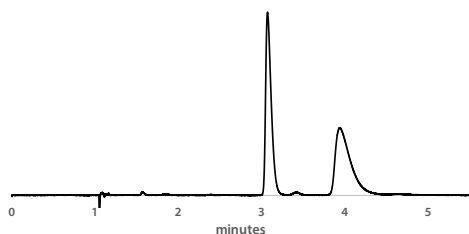
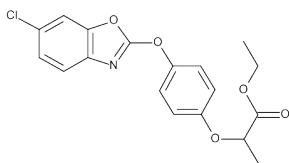
**CAS #:** 66441-23-4

**Catalog #:** 1-580204-300



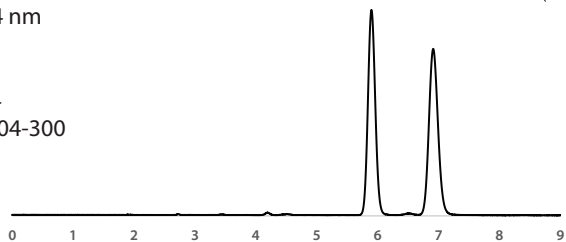
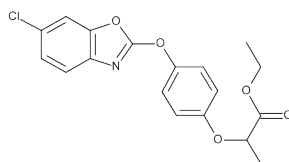
## Fenoxprop-ethyl

**Column:** Reflect I-Amylose A,  
5  $\mu$ m, 25 cm x 4.6 mm  
**Mobile Phase:** (90/10) CO<sub>2</sub>/IPA  
**Flow Rate:** 3.0 mL/min  
**Temperature:** 40 °C  
**Pressure:** 150 bar  
**Detection:** UV 254 nm  
**k':** 2.07  
 **$\alpha$ :** 1.42  
**CAS #:** 66441-23-4  
**Catalog #:** 1-591204-300



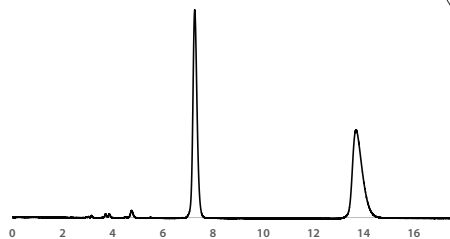
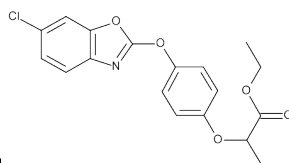
## Fenoxprop-ethyl

**Column:** Reflect C-Amylose A,  
5  $\mu$ m, 25 cm x 4.6 mm  
**Mobile Phase:** (90/10) Hexane/IPA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**k':** 1.94  
 **$\alpha$ :** 1.26  
**CAS #:** 66441-23-4  
**Catalog #:** 1-580204-300



## Fenoxprop-ethyl

**Column:** Reflect I-Cellulose J,  
5  $\mu$ m, 25 cm x 4.6 mm  
**Mobile Phase:** (80/20) Hexane/  
Ethanol  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**k':** 2.63  
 **$\alpha$ :** 2.22  
**CAS #:** 66441-23-4  
**Catalog #:** 1-594204-300





## Fenoxprop-ethyl

**Column:** Reflect I-Cellulose J,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (80/20)  $\text{CO}_2$ /  
Methanol

**Flow Rate:** 3.0 mL/min

**Temperature:** 40  $^\circ\text{C}$

**Pressure:** 150 bar

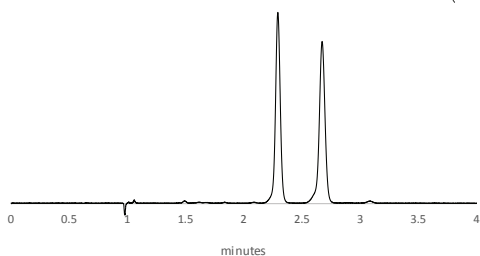
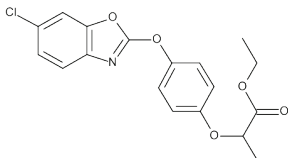
**Detection:** UV 254 nm

**$k'_1$ :** 1.29

**$\alpha$ :** 1.30

**CAS #:** 66441-23-4

**Catalog #:** 1-594204-300



## Fenvalerate

**Column:** (R,R) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (92/8)  
Hexane/IPA

**Flow Rate:** 2.0 mL/min

**Detection:** UV 220 nm

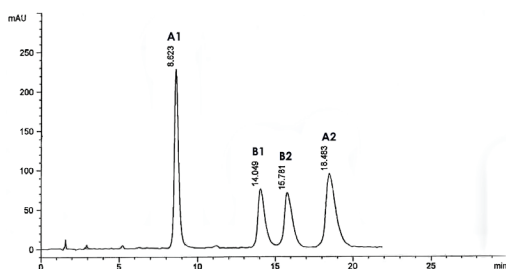
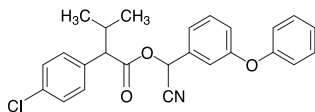
**$k'_{A1}$ :** 4.94

**$\alpha_{A1, A2}$ :** 4.10

**$k'_{B1}$ :** 8.69

**$\alpha_{B1, B2}$ :** 1.14

**Catalog #:** 1-780201-300



## Fenvalerate

**Column:** (S,S) Whelk-O 1,  
10  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (99/1)  
Hexane/IPA

**Flow Rate:** 3.0 mL/min

**Detection:** UV 254 nm

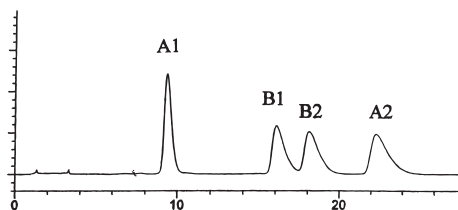
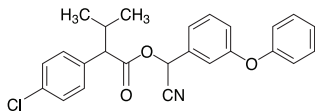
**$k'_{A1}$ :** 9.36

**$\alpha_{(A1, A2)}$ :** 2.54

**$k'_{B1}$ :** 16.79

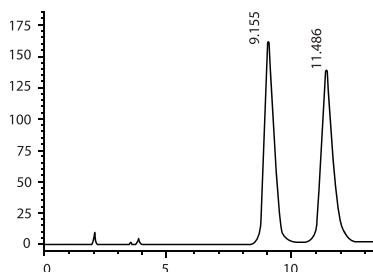
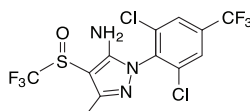
**$\alpha_{(B1, B2)}$ :** 1.14

**Catalog #:** 1-786615-300



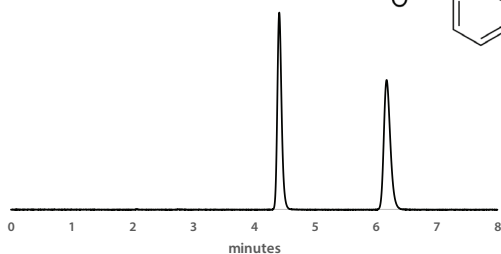
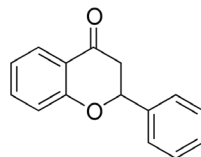
## Fipronil

**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (95/5)  
Hexane/IPA + 0.1% Acetic Acid  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**k'**: 3.74  
 **$\alpha$ :** 1.32  
**CAS #:** 1200068-37-3  
**Catalog #:** 1-780101-300;  
1-780201-300



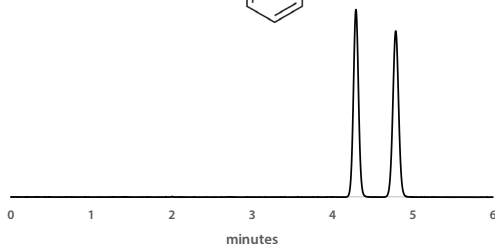
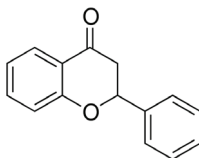
## Flavanone

**Column:** Reflect I-Amylose A,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
Hexane/Ethanol  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**k'**: 1.20  
 **$\alpha$ :** 1.73  
**CAS #:** 487-26-3  
**Catalog #:** 1-591204-300



## Flavanone

**Column:** Reflect I-Cellulose B,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
Hexane/Ethanol  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**k'**: 1.14  
 **$\alpha$ :** 1.22  
**CAS #:** 487-26-3  
**Catalog #:** 1-592204-300



## Flavanone

**Column:** Reflect I-Cellulose C,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (90/10)

Hexane/IPA

**Flow Rate:** 1.5 mL/min

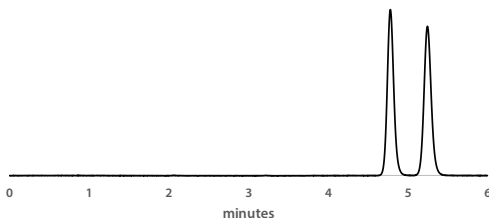
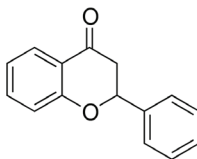
**Detection:** UV 254 nm

**$k'$ :** 1.38

**$\alpha$ :** 1.17

**CAS #:** 487-26-3

**Catalog #:** 1-593204-300



## Flavanone

**Column:** Reflect I-Cellulose J

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (80/20)

Hexane/IPA

**Flow Rate:** 1.5 mL/min

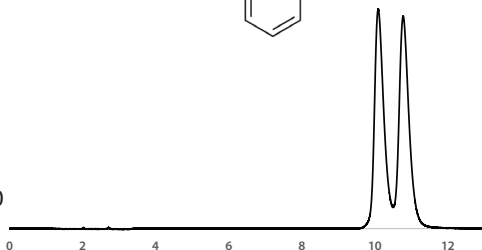
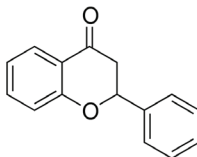
**Detection:** UV 254 nm

**$k'$ :** 4.03

**$\alpha$ :** 1.08

**CAS #:** 487-26-3

**Catalog #:** 1-594204-300



## Flavanone

**Column:** Reflect C-Amylose A,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (90/10)

Hexane/Ethanol

**Flow Rate:** 1.5 mL/min

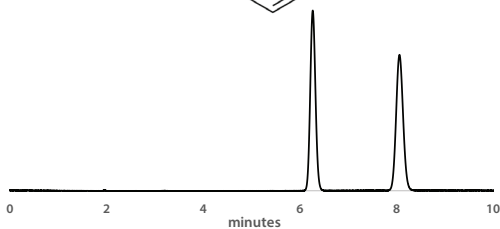
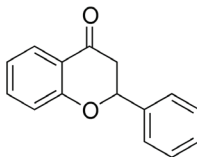
**Detection:** UV 254 nm

**$k'$ :** 2.12

**$\alpha$ :** 1.42

**CAS #:** 487-26-3

**Catalog #:** 1-580204-300



## Flavanone

**Column:** Reflect C-Cellulose B,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (90/10) Hexane/  
Ethanol

**Flow Rate:** 1.5 mL/min

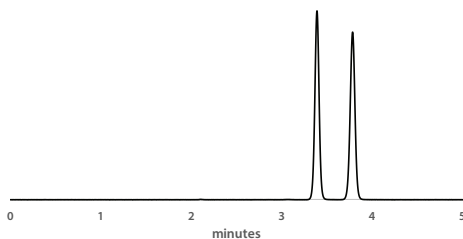
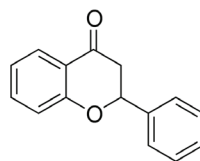
**Detection:** UV 254 nm

**k':** 0.69

**$\alpha$ :** 1.28

**CAS #:** 487-26-3

**Catalog #:** 1-590204-300



## Flavanone

**Column:** Reflect I-Amylose A,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (70/30) CO<sub>2</sub>/  
Methanol

**Flow Rate:** 3.0 mL/min

**Temperature:** 40 °C

**Pressure:** 150 bar

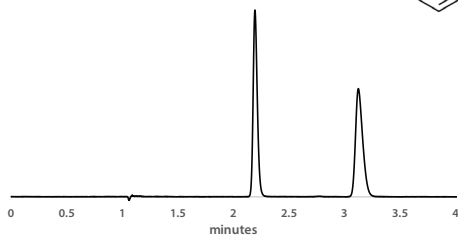
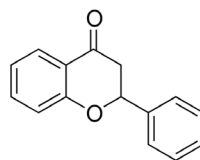
**Detection:** UV 210 nm

**k':** 1.19

**$\alpha$ :** 1.78

**CAS #:** 487-26-3

**Catalog #:** 1-591204-300



## Flavanone

**Column:** Reflect I-Cellulose B,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (90/10) CO<sub>2</sub>/  
Methanol

**Flow Rate:** 3.0 mL/min

**Temperature:** 40 °C

**Pressure:** 150 bar

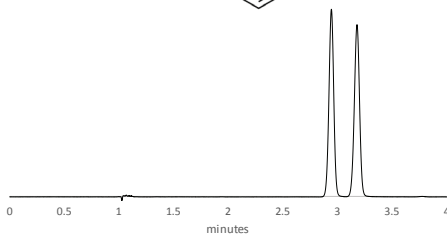
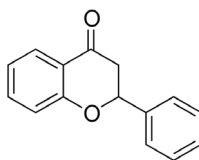
**Detection:** UV 210 nm

**k':** 1.94

**$\alpha$ :** 1.12

**CAS #:** 487-26-3

**Catalog #:** 1-592204-300



## Flavanone

**Column:** Reflect I-Cellulose J,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (90/10)  $\text{CO}_2$ /  
Methanol

**Flow Rate:** 3.0 mL/min

**Temperature:** 40  $^\circ\text{C}$

**Pressure:** 150 bar

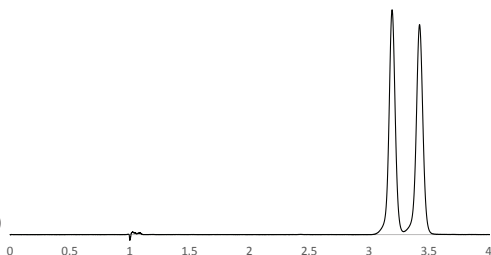
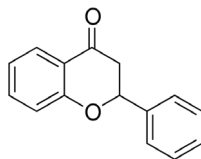
**Detection:** UV 210 nm

**$k'$ :** 2.19

**$\alpha$ :** 1.10

**CAS #:** 487-26-3

**Catalog #:** 1-594204-300



## Flavanone

**Column:** Reflect C-Amylose A,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (60/40)  $\text{CO}_2$ /  
Methanol

**Flow Rate:** 3.0 mL/min

**Temperature:** 40  $^\circ\text{C}$

**Pressure:** 150 bar

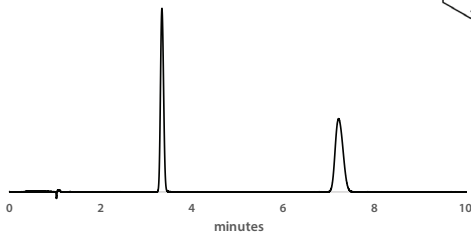
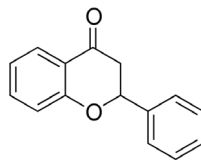
**Detection:** UV 210 nm

**$k'$ :** 2.33

**$\alpha$ :** 2.66

**CAS #:** 487-26-3

**Catalog #:** 1-580204-300



## Flavanone

**Column:** Reflect C-Cellulose B,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (90/10)  $\text{CO}_2$ /  
Methanol

**Flow Rate:** 3.0 mL/min

**Temperature:** 40  $^\circ\text{C}$

**Pressure:** 150 bar

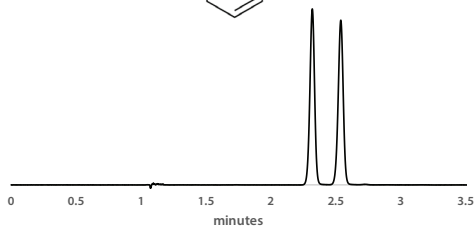
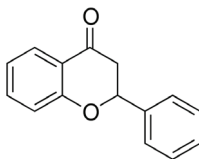
**Detection:** UV 210 nm

**$k'$ :** 1.94

**$\alpha$ :** 1.12

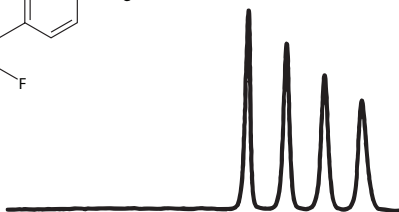
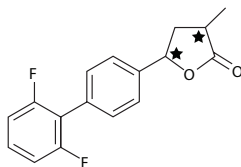
**CAS #:** 487-26-3

**Catalog #:** 1-590204-300



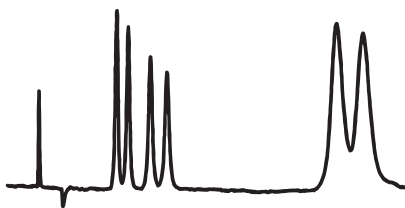
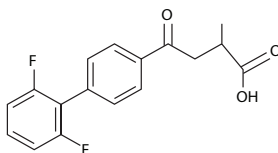
## Flobufen and Flobufen Metabolites

**Column:** (S,S) ULMO,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
Heptane/IPA + 0.1% TFA  
**Flow Rate:** 2.0 mL/min  
**Detection:** UV 230 nm  
**Run Time:** 24.0 min  
**Reference:** 47  
**Catalog #:** 1-787100-300



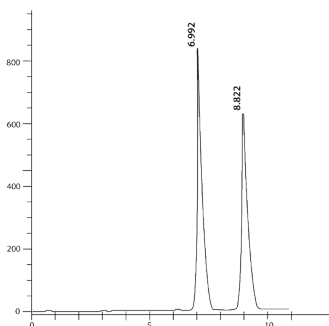
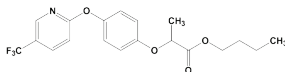
## Flobufen Metabolites

**Column:** (S,S) ULMO,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (97/3)  
Heptane/Glyme + 0.1% TFA  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 215 nm  
**Run Time:** 21.0 min  
**Reference:** 47  
**Catalog #:** 1-787100-300



## Fluazifop-butyl

**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (95/5)  
Hexane/IPA  
**Flow Rate:** 2.0 mL/min  
**Detection:** UV 254 nm  
**k':** 3.82  
 **$\alpha$ :** 1.33  
**Catalog #:** 1-780101-300,  
1-780201-300



## Fluazifop-butyl

**Column:** (S,S)-DACH-DNB,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (95/5)

Hexane/IPA

**Temperature:** 20 °C

**Flow Rate:** 1.0 mL/min

**Detection:** UV 254 nm

**Run Time:** 11.5 min

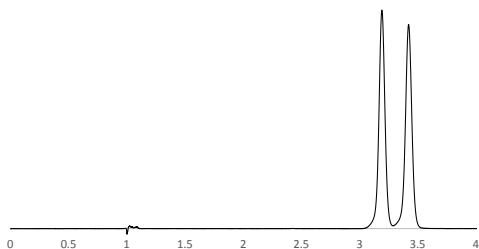
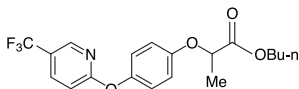
**k':** 2.65

**$\alpha$ :** 1.22

**Reference:** 59

**Catalog #:** 1-788101-300,

1-788201-300



## Flucythrinate

**Column:** Reflect C-Amylose A,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (95/5) CO<sub>2</sub>/Methanol

**Flow Rate:** 3.0 mL/min

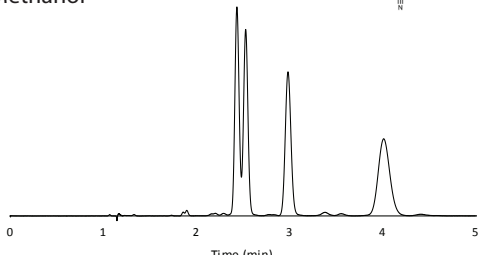
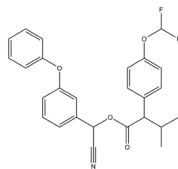
**Temperature:** 30 °C

**Pressure:** 150 bar

**Detection:** UV 210 nm

**CAS #:** 70124-77-5

**Catalog #:** 1-580204-300



## Flucythrinate

**Column:** Reflect C-Cellulose B,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (95/5) CO<sub>2</sub>/IPA

**Flow Rate:** 3.0 mL/min

**Temperature:** 30 °C

**Pressure:** 150 bar

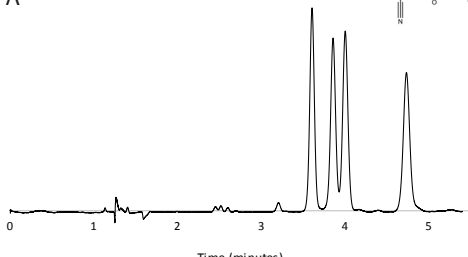
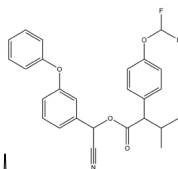
**Detection:** UV 210 nm

**k':** 2.60

**$\alpha$ :** 1.10

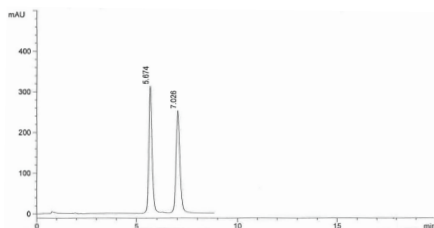
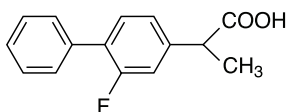
**CAS #:** 70124-77-5

**Catalog #:** 1-590204-300



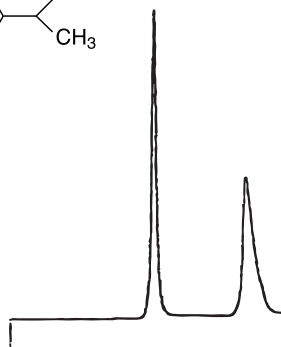
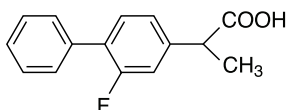
## Flurbiprofen

**Column:** (S,S) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (95/5)  
Hexane/IPA + 0.1% Acetic Acid  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**k'**: 1.94  
 **$\alpha$ :** 1.36  
**Catalog #:** 1-780101-300



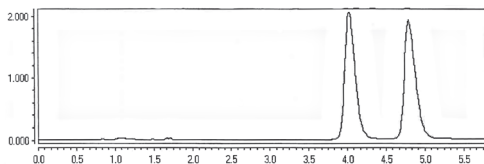
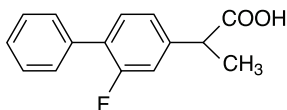
## Flurbiprofen

**Column:** (R,R) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
Hexane/IPA + 0.01 M  
Ammonium Acetate  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 20.5 min  
**k'**: 5.90  
 **$\alpha$ :** 1.76  
**Catalog #:** 1-780201-300



## Flurbiprofen

**Column:** (S,S) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (80/20)  
CO<sub>2</sub>/Ethanol + 0.5% DEA  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40 °C  
**Pressure:** 125 bar  
**Detection:** UV 254 nm  
**k'**: 4.36  
 **$\alpha$ :** 1.23  
**Catalog #:** 1-780101-300





## Flurbiprofen

**Column:** Reflect I-Amylose A,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (90/10/0.1)

Hexane/Ethanol/Acetic Acid

**Flow Rate:** 1.5 mL/min

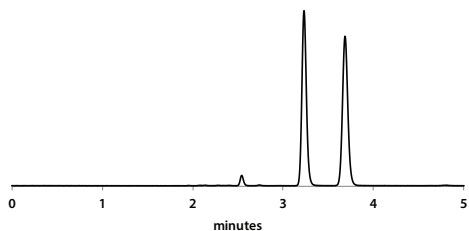
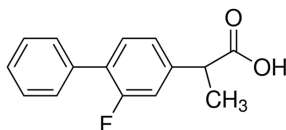
**Detection:** UV 254 nm

**k'**: 0.61

**$\alpha$ :** 1.37

**CAS #:** 5104-49-4

**Catalog #:** 1-591204-300



## Flurbiprofen

**Column:** Reflect C-Amylose A,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (90/10/0.1)

Hexane/Ethanol/Acetic Acid

**Flow Rate:** 1.5 mL/min

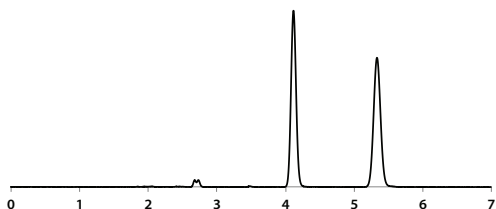
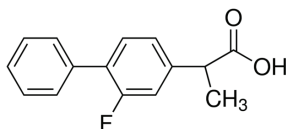
**Detection:** UV 254 nm

**k'**: 1.06

**$\alpha$ :** 1.58

**CAS #:** 5104-49-4

**Catalog #:** 1-580204-300



## Flurbiprofen

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (85/15)

CO<sub>2</sub>/CH<sub>3</sub>OH + 0.5% TFA

**Flow Rate:** 4.0 mL/min

**Temperature:** 40 °C

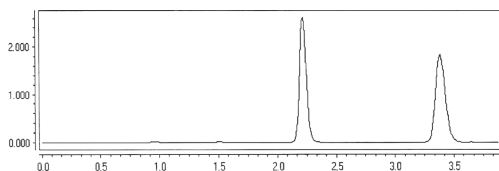
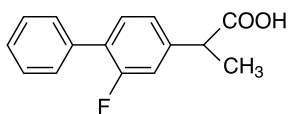
**Pressure:** 125 bar

**Detection:** UV 254 nm

**k'**: 1.96

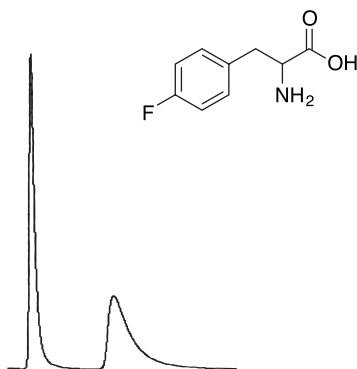
**$\alpha$ :** 1.80

**Catalog #:** 1-783104-300



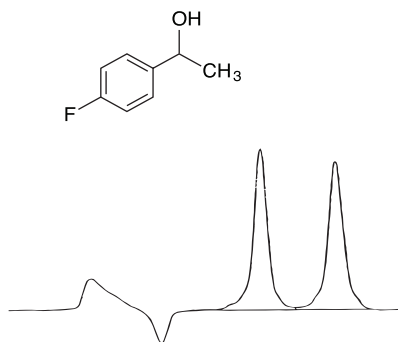
## 4-Fluorophenylalanine

**Column:** ChiroSil,  
5  $\mu\text{m}$ , 15 cm x 4.6 mm  
**Mobile Phase:** (70/30)  
CH<sub>3</sub>OH/H<sub>2</sub>O+10  
mM Acetic Acid  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 210 nm  
**Run Time:** 9.6 min  
**k'**: 2.92  
 **$\alpha$** : 2.56  
**Catalog #:** 1-799001-300,  
1-799101-300



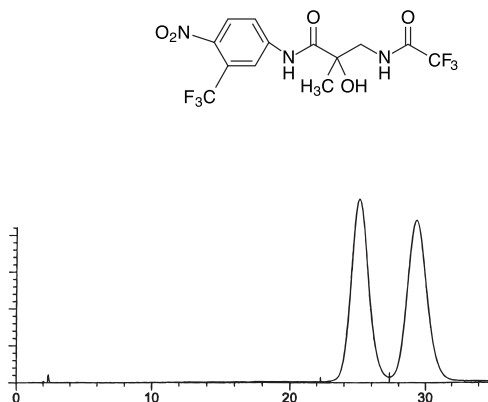
## 1-(p-Fluorophenyl) Ethanol

**Column:** (S,S) ULMO,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (98.5/1.5)  
n-Heptane/1,2-Dimethoxyethane  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 10.5 min  
**k'**: 2.13  
 **$\alpha$** : 1.16  
**Reference:** 60  
**Catalog #:** 1-788201-300



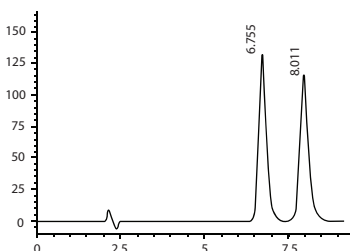
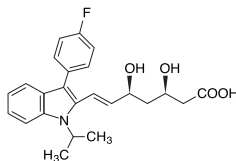
## Fluridil

**Column:** (S,S) Whelk-O 2,  
10  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (57/43)  
H<sub>2</sub>O/CH<sub>3</sub>OH  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**k'**: 12.9  
 **$\alpha$** : 1.18  
**Catalog #:** 1-786446-300



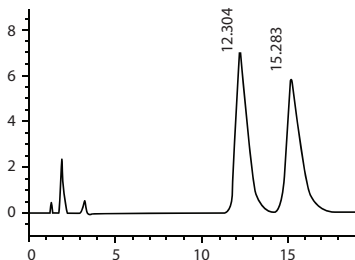
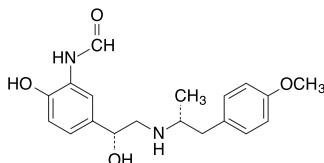
## Fluvastatin

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (92/8)  
Hexane/Ethanol + 0.1% TFA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
 **$k'$ :** 2.56  
 **$\alpha$ :** 1.26  
**CAS #:** 93957-54-1  
**Catalog #:** 1-783104-300



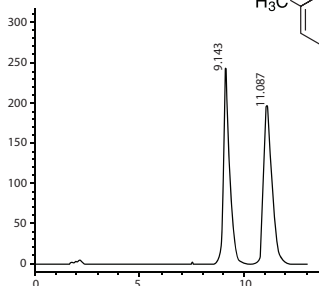
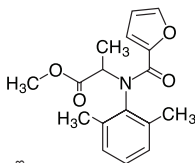
## Formoterol

**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (80/20)  
Hexane/IPA  
+ 0.1% TFA + 0.1% DEA  
**Flow Rate:** 2.0 mL/min  
**Detection:** UV 254 nm  
 **$k'$ :** 5.38  
 **$\alpha$ :** 1.29  
**CAS #:** 73573-87-2  
**Catalog #:** 1-780101-300,  
1-780201-300



## Furalaxyl

**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (60/40)  
Hexane/IPA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
 **$k'$ :** 3.81  
 **$\alpha$ :** 1.27  
**CAS #:** 57646-30-7  
**Catalog #:** 1-780101-300,  
1-780201-300



## Furalaxyl

**Column:** (S,S) Whelk-O 1,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (70/30)

CO<sub>2</sub>/IPA

**Flow Rate:** 4.0 mL/min

**Temperature:** 40 °C

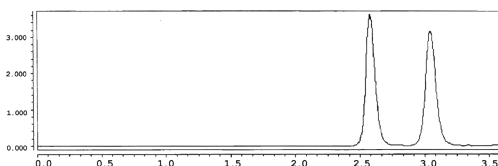
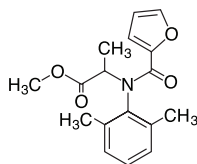
**Pressure:** 125 bar

**Detection:** UV 254 nm

**k'**: 2.44

**$\alpha$ :** 1.25

**Catalog #:** 1-780101-300



## Furalaxyl

**Column:** RegisPack,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (90/10)

Hexane/IPA

**Flow Rate:** 1.5 mL/min

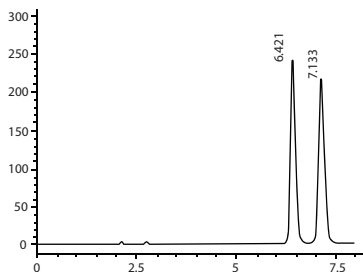
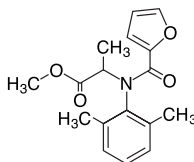
**Detection:** UV 220 nm

**k'**: 2.28

**$\alpha$ :** 1.21

**CAS #:** 57646-30-7

**Catalog #:** 1-783104-300



## Furalaxyl

**Column:** RegisPack,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (85/15)

CO<sub>2</sub>/IPA + 0.5% DEA

**Flow Rate:** 4.0 mL/min

**Temperature:** 40 °C

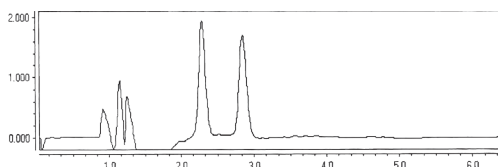
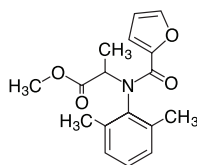
**Pressure:** 125 bar

**Detection:** UV 220 nm

**k'**: 2.04

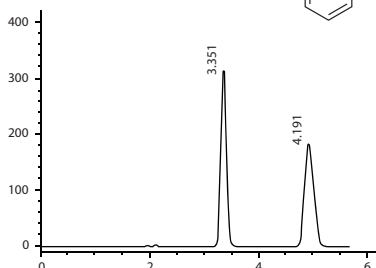
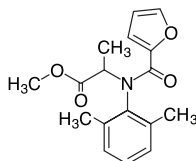
**$\alpha$ :** 1.36

**Catalog #:** 1-783104-300



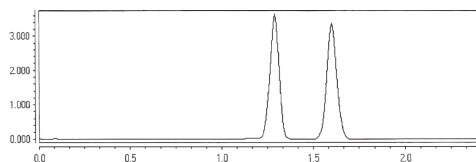
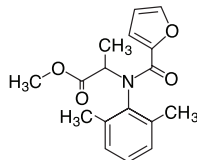
## Furalaxyl

**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (75/25)  
Hexane/Ethanol  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
**k'**: 0.76  
 **$\alpha$ :** 2.09  
**CAS #:** 57646-30-7  
**Catalog #:** 1-784104-300



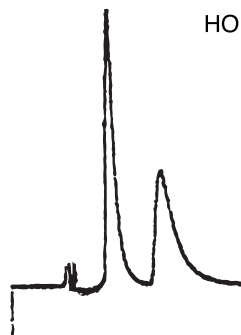
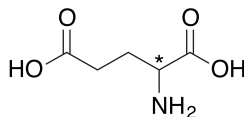
## Furalaxyl

**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (80/20)  
 $\text{CO}_2$ /Ethanol  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40  $^\circ\text{C}$   
**Pressure:** 125 bar  
**Detection:** UV 220 nm  
**k'**: 0.72  
 **$\alpha$ :** 1.58  
**Catalog #:** 1-784104-300



## Glutamic Acid

**Column:** ChiroSil,  
5  $\mu\text{m}$ , 15 cm x 4.6 mm  
**Mobile Phase:** (65/35)  
 $\text{CH}_3\text{OH}/\text{H}_2\text{O}$   
+0.05% Phosphoric acid  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 210 nm  
**Run Time:** 4.5 min  
**k'**: 0.71  
 **$\alpha$ :** 2.27  
**Catalog #:** 1-799001-300,  
1-799101-300



## Glutamine

**Column:** ChiroSil SCA(-),

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (65/35)

$\text{CH}_3\text{CN}/\text{H}_2\text{O}$

+0.01% Acetic Acid

**Flow Rate:** 1.5 mL/min

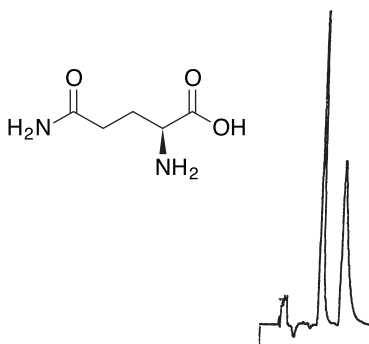
**Detection:** UV 210 nm

**Run Time:** 6.5 min

**k':** 1.51

**$\alpha$ :** 1.61

**Catalog #:** 1-799101-300



## Glutethimide

**Column:** RegisCell,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (85/15)

Hexane/IPA

**Flow Rate:** 1.0 mL/min

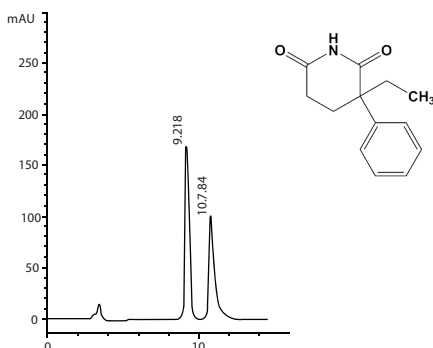
**Detection:** UV 220 nm

**k':** 2.18

**$\alpha$ :** 1.24

**CAS #:** 77-21-4

**Catalog #:** 1-784104-300



## Glutethimide

**Column:** RegisCell,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (90/10)

$\text{CO}_2/\text{Ethanol}$

**Flow Rate:** 4.0 mL/min

**Temperature:** 40  $^\circ\text{C}$

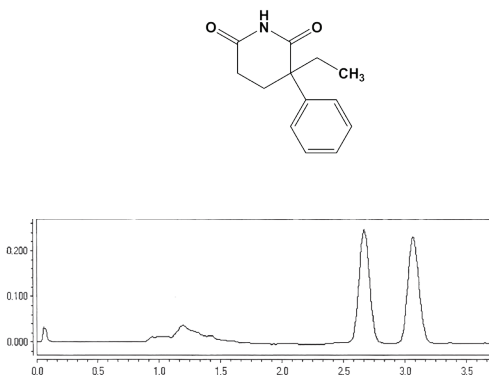
**Pressure:** 125 bar

**Detection:** UV 220 nm

**k':** 2.57

**$\alpha$ :** 1.20

**Catalog #:** 1-784104-300



## Haloxyfop-ethoxyethyl

**Column:** (S,S) DACH-DNB,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (95/5)

Hexane/IPA

**Temperature:** 20  $^{\circ}\text{C}$

**Flow Rate:** 1.0 mL/min

**Detection:** UV 254 nm

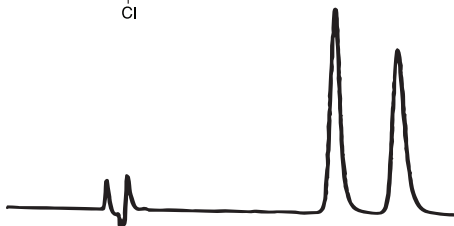
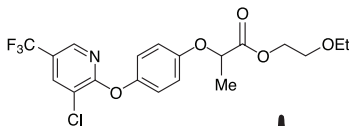
**Run Time:** 13.0 min

**k':** 3.13

**$\alpha$ :** 1.25

**Reference:** 59

**Catalog #:** 1-788201-300



## Hanessian's Lignan

**Column:** Whelk-O 1,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** 100%

Methanol

**Flow Rate:** 1.0 mL/min

**Detection:** UV 254 nm

**Run Time:** 8 min

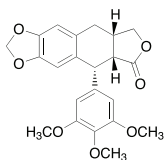
**k':** 0.94

**$\alpha$ :** 1.69

**Reference:** 7

**Catalog #:** 1-780101-300,

1-780201-300



## Hesperetin

**Column:** Reflect C-Amylose A,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (70/30/0.1)

Hexane/2-propanol/Acetic Acid

**Flow Rate:** 1.5 mL/min

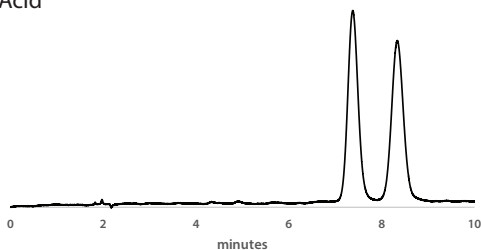
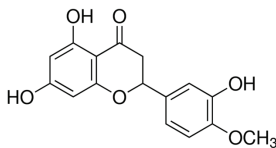
**Detection:** UV 220 nm

**k':** 2.68

**$\alpha$ :** 1.18

**CAS #:** 69097-99-0

**Catalog #:** 1-580204-300



## Hesperetin

**Column:** Reflect C-Cellulose B,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (80/20/0.1)  
Hexane/2-propanol/Acetic  
Acid

**Flow Rate:** 1.5 mL/min

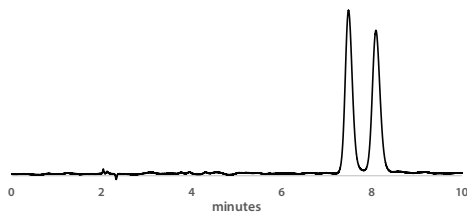
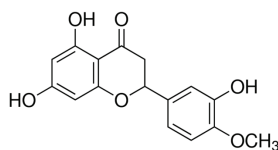
**Detection:** UV 220 nm

**k':** 2.73

**$\alpha$ :** 1.11

**CAS #:** 69097-99-0

**Catalog #:** 1-590204-300



## Hexobarbital

**Column:** L-Leucine,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (95/5)  
Hexane/EtOH

**Flow Rate:** 0.7 mL/min

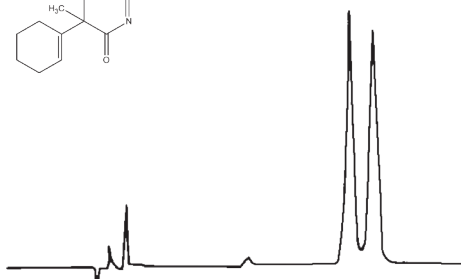
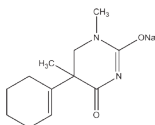
**Detection:** UV 254 nm

**Run Time:** 16 min

**k':** 2.89

**$\alpha$ :** 1.10

**Catalog #:** 1-731041-300



## Hippuryl-phenyllactic acid

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (75/25)  
Hexane/Ethanol + 0.1% TFA

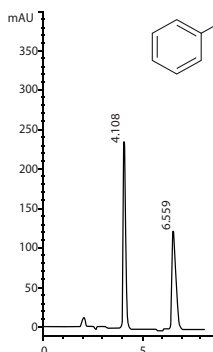
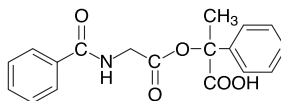
**Flow Rate:** 1.5 mL/min

**Detection:** UV 254 nm

**k':** 1.16

**$\alpha$ :** 2.11

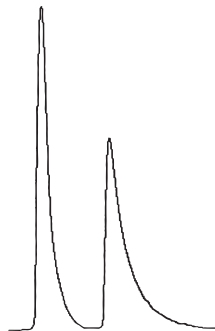
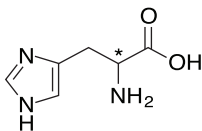
**Catalog #:** 1-783104-300





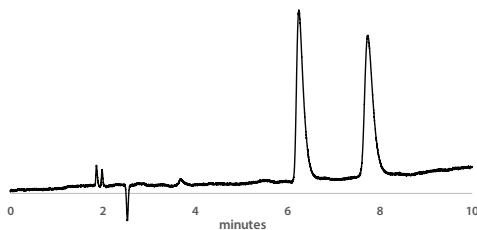
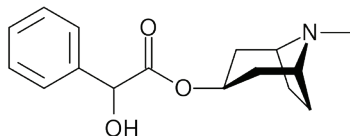
## Histidine

**Column:** ChiroSil,  
5  $\mu\text{m}$ , 15 cm x 4.6 mm  
**Mobile Phase:** (45/55)  
CH<sub>3</sub>OH/H<sub>2</sub>O  
+10 mM Acetic Acid  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 210 nm  
**Run Time:** 26.0 min  
**k':** 10.96  
 **$\alpha$ :** 1.27  
**Catalog #:** 1-799001-300,  
1-799101-300



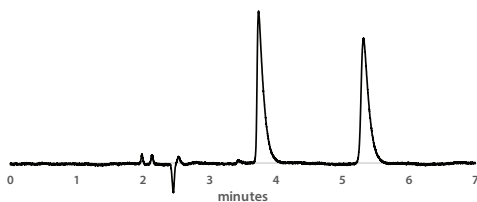
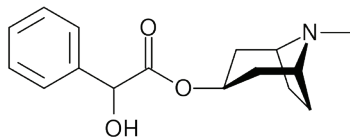
## Homatropine

**Column:** Reflect C-Amylose A,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (80/20/0.1)  
Hexane/Ethanol/DEA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 240 nm  
**k':** 2.12  
 **$\alpha$ :** 1.35  
**CAS #:** 87-00-3  
**Catalog #:** 1-580204-300



## Homatropine

**Column:** Reflect C-Cellulose B,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (80/20/0.1)  
Hexane/Ethanol/DEA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 240 nm  
**k':** 0.86  
 **$\alpha$ :** 1.91  
**CAS #:** 87-00-3  
**Catalog #:** 1-590204-300



## Homatropine

**Column:** Reflect I-Cellulose B,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (80/20/0.1)

Hexane/Ethanol/DEA

**Flow Rate:** 1.5 mL/min

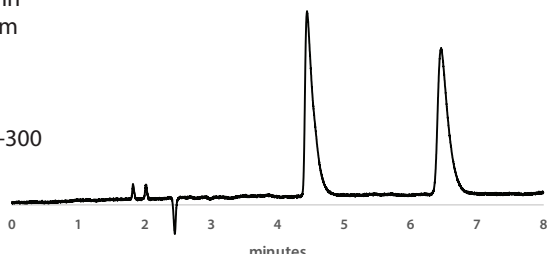
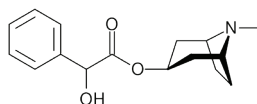
**Detection:** UV 240 nm

**k':** 1.22

**$\alpha$ :** 1.83

**CAS #:** 87-00-3

**Catalog #:** 1-592204-300



## Homatropine

**Column:** RegisCell,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (75/25)

CO<sub>2</sub>/CH<sub>3</sub>OH + 0.5% DEA

**Flow Rate:** 4.0 mL/min

**Temperature:** 40 °C

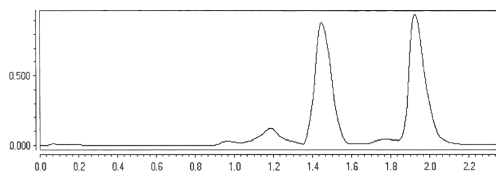
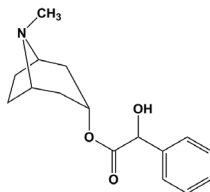
**Pressure:** 125 bar

**Detection:** UV 220 nm

**k':** 0.93

**$\alpha$ :** 1.67

**Catalog #:** 1-784104-300



## Homocysteine-Thiolactone HCl

**Column:** ChiroSil RCA (+),

5  $\mu\text{m}$ , 15 cm x 4.6 mm

**Mobile Phase:** (60/40)

CH<sub>2</sub>OH/H<sub>2</sub>O + 0.05% TFA

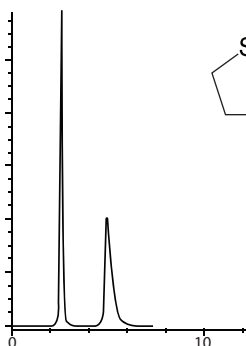
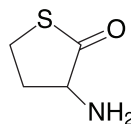
**Flow Rate:** 1.0 mL/min

**Detection:** UV 240 nm

**k':** 0.58

**$\alpha$ :** 3.56

**Catalog #:** 1-799001-300



## DL-Homophenylalanine

**Column:** ChiroSil ME RCA(+),  
5  $\mu\text{m}$ , 15 cm x 4.6 mm

**Mobile Phase:** (30/70) 0.01%  
Phosphoric Acid/MeOH

**Flow Rate:** 1.0 mL/min

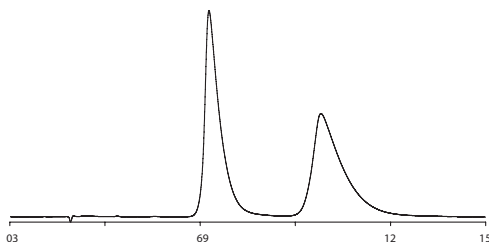
**Detection:** UV 210 nm

**Temperature:** 20  $^{\circ}\text{C}$

**$k'$ :** 2.27

**$\alpha$ :** 1.81

**Catalog #:** 1-788001-300



## DL-Homo-Serine

**Column:** ChiroSil ME RCA(+),  
5  $\mu\text{m}$ , 15 cm x 4.6 mm

**Mobile Phase:** (30/70) 0.01%  
Phosphoric Acid/MeOH

**Flow Rate:** 1.0 mL/min

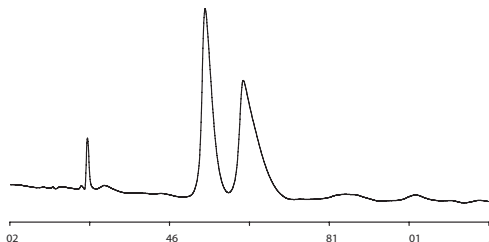
**Detection:** UV 210 nm

**Temperature:** 20  $^{\circ}\text{C}$

**$k'$ :** 1.51

**$\alpha$ :** 1.32

**Catalog #:** 1-788001-300



## Huperzine

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (75/25)  
Hexane/IPA + 0.1% DEA

**Flow Rate:** 1.5 mL/min

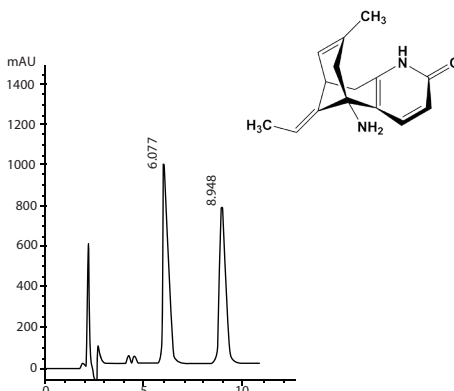
**Detection:** UV 220 nm

**$k'$ :** 2.22

**$\alpha$ :** 1.69

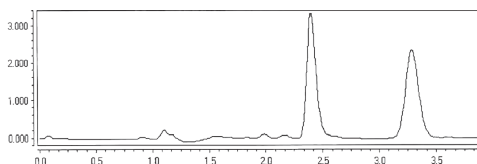
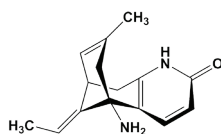
**CAS #:** 102518-79-6

**Catalog #:** 1-783104-300



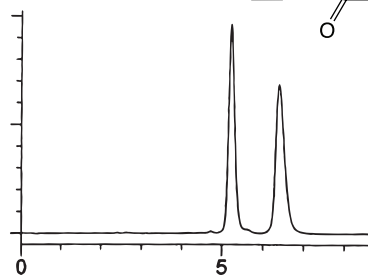
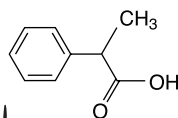
## Huperzine

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (70/30)  
CO<sub>2</sub>/Ethanol + 0.5% DEA  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40 °C  
**Pressure:** 125 bar  
**Detection:** UV 220 nm  
**k'**: 2.20  
 **$\alpha$ :** 1.54  
**Catalog #:** 1-783104-300



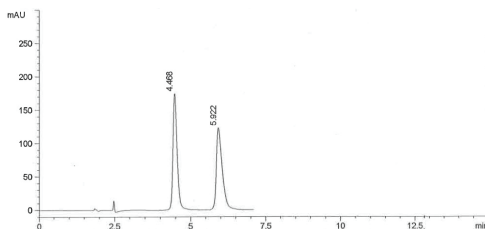
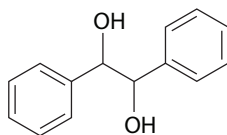
## Hydratropic Acid

**Column:** (R,R) Whelk-O 1,  
10  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (98/2)  
Hexane/IPA  
+ 0.1% Acetic Acid  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**k'**: 1.89  
 **$\alpha$ :** 1.34  
**Catalog #:** 1-786515-300



## Hydrobenzoin

**Column:** (S,S) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (80/20)  
Hexane/IPA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**k'**: 1.32  
 **$\alpha$ :** 1.57  
**Catalog #:** 1-780101-300



## Hydrobenzoin

**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (95/5)  
Hexane/IPA

**Flow Rate:** 1.0 mL/min

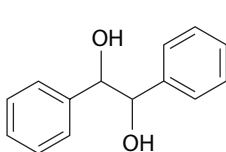
**Detection:** UV 254 nm

**Run Time:** 18 min

**$k'$ :** 1.14

**$\alpha$ :** 1.40

**Catalog #:** 1-780101-300,  
1-780201-300



## Hydrobenzoin

**Column:** (S,S) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (85/15)  
 $\text{CO}_2/\text{CH}_3\text{OH}$

**Flow Rate:** 4.0 mL/min

**Temperature:** 40  $^\circ\text{C}$

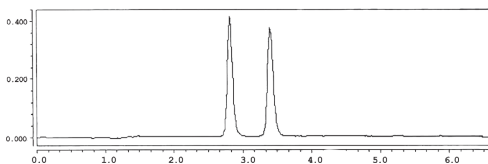
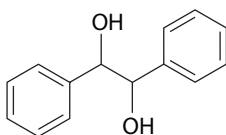
**Pressure:** 125 bar

**Detection:** UV 254 nm

**$k'$ :** 2.75

**$\alpha$ :** 1.28

**Catalog #:** 1-780101-300



## Hydrobenzoin

**Column:** Reflect I-Amylose A,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (80/20)

Hexane/Ethanol

**Flow Rate:** 1.5 mL/min

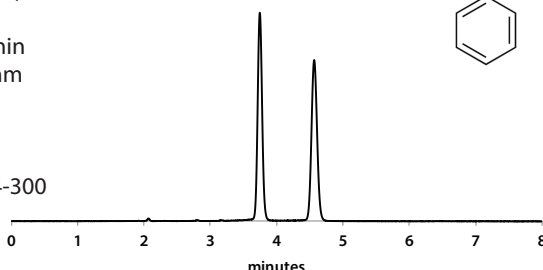
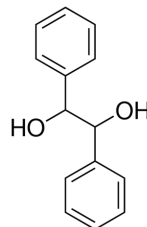
**Detection:** UV 220 nm

**$k'$ :** 0.87

**$\alpha$ :** 1.47

**CAS #:** 655-48-1

**Catalog #:** 1-591204-300



## Hydrobenzoin

**Column:** Reflect C-Amylose A,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (80/20)  
Hexane/Ethanol

**Flow Rate:** 1.5 mL/min

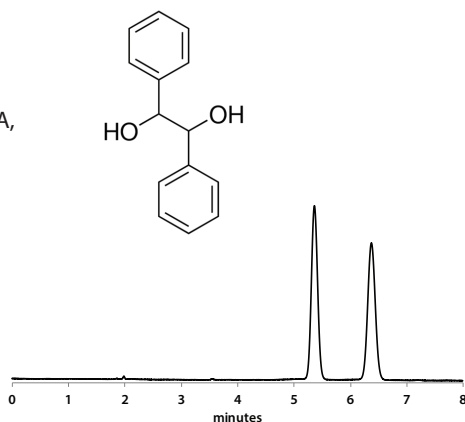
**Detection:** UV 220 nm

**k':** 1.68

**$\alpha$ :** 1.30

**CAS #:** 492-70-6

**Catalog #:** 1-580204-300



## Hydrobenzoin

**Column:** Reflect I-Amylose A,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (90/10) CO<sub>2</sub>/  
Methanol

**Flow Rate:** 3.0 mL/min

**Temperature:** 40 °C

**Pressure:** 150 bar

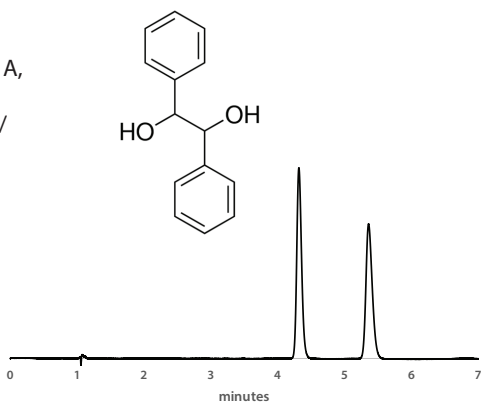
**Detection:** UV 210 nm

**k':** 3.31

**$\alpha$ :** 1.31

**CAS #:** 492-70-6

**Catalog #:** 1-591204-300



## Hydrobenzoin

**Column:** Reflect I-Cellulose B,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (95/5) CO<sub>2</sub>/  
Methanol

**Flow Rate:** 3.0 mL/min

**Temperature:** 40 °C

**Pressure:** 150 bar

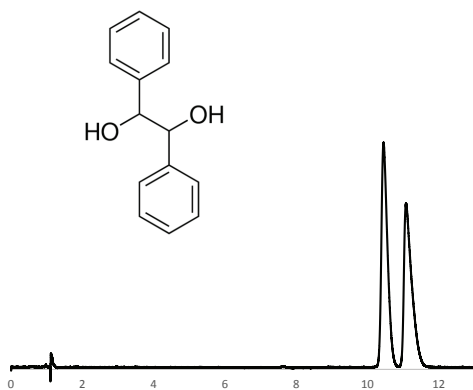
**Detection:** UV 210 nm

**k':** 9.43

**$\alpha$ :** 1.07

**CAS #:** 492-70-6

**Catalog #:** 1-592204-300



## Hydrobenzoin

**Column:** Reflect I-Cellulose C,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (90/10)  $\text{CO}_2$ /  
Methanol+0.2% DEA

**Flow Rate:** 3.0 mL/min

**Temperature:** 30  $^\circ\text{C}$

**Pressure:** 150 bar

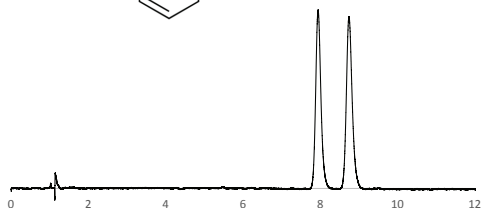
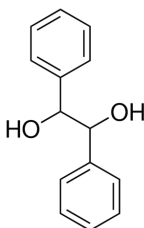
**Detection:** UV 210 nm

**$k'$ :** 4.22

**$\alpha$ :** 1.10

**CAS #:** 492-70-6

**Catalog #:** 1-593204-300



## Hydrobenzoin

**Column:** Reflect I-Cellulose J,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (90/10)  $\text{CO}_2$ /  
Methanol

**Flow Rate:** 3.0 mL/min

**Temperature:** 40  $^\circ\text{C}$

**Pressure:** 150 bar

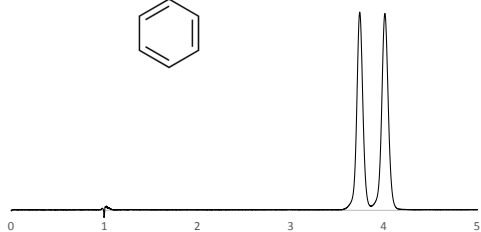
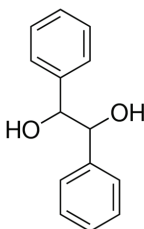
**Detection:** UV 210 nm

**$k'$ :** 2.73

**$\alpha$ :** 1.10

**CAS #:** 492-70-6

**Catalog #:** 1-594204-300



## Hydrobenzoin

**Column:** Reflect C-Amylose A,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (80/20)  $\text{CO}_2$ /  
Methanol

**Flow Rate:** 3.0 mL/min

**Temperature:** 40  $^\circ\text{C}$

**Pressure:** 150 bar

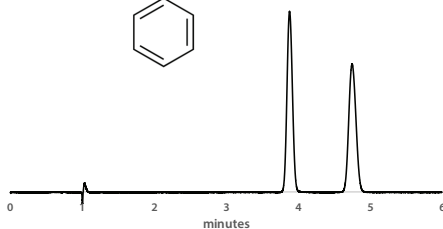
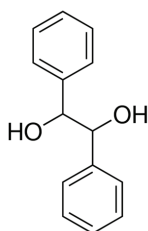
**Detection:** UV 210 nm

**$k'$ :** 2.87

**$\alpha$ :** 1.21

**CAS #:** 492-70-6

**Catalog #:** 1-580204-300



## Hydrobenzoin

**Column:** Reflect C-Cellulose B,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (90/10)  $\text{CO}_2$ /  
Methanol

**Flow Rate:** 3.0 mL/min

**Temperature:** 40  $^\circ\text{C}$

**Pressure:** 150 bar

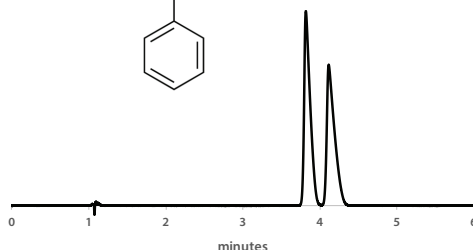
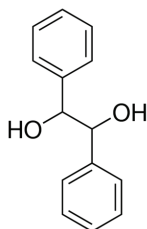
**Detection:** UV 210 nm

**$k'$ :** 2.81

**$\alpha$ :** 1.11

**CAS #:** 492-70-6

**Catalog #:** 1-590204-300



## 2-(4-Hydroxy-Phenoxy) Propionic Acid

**Column:** (R,R) ULMO,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (97/3)

Hexane/Ethanol

+ 0.1% TFA

**Flow Rate:** 1.5 mL/min

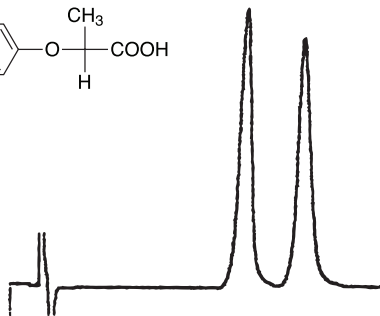
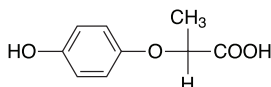
**Detection:** UV 254 nm

**Run Time:** 22.5 min

**$k'$ :** 9.02

**$\alpha$ :** 1.27

**Catalog #:** 1-787200-300



## 1-(4-Hydroxyphenyl) Ethanol

**Column:** (S,S) ULMO,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (95/5)

n-Heptane/IPA + 0.1% TFA

**Flow Rate:** 1.0 mL/min

**Detection:** UV 254 nm

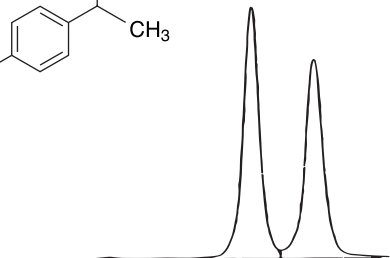
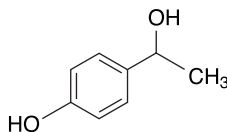
**Run Time:** 8.5 min

**$k'$ :** 1.491

**$\alpha$ :** 1.16

**Reference:** 60

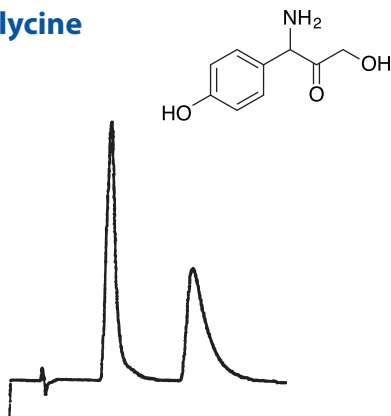
**Catalog #:** 1-787100-300





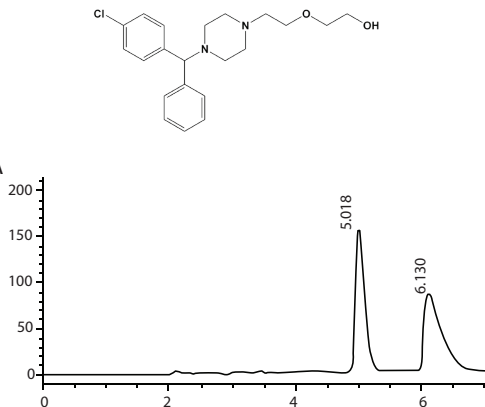
## D,L-p-Hydroxy-Phenylglycine

**Column:** ChiroSil SCA (+),  
5  $\mu\text{m}$ , 15 cm x 4.6 mm  
**Mobile Phase:** (50/50)  $\text{CH}_3\text{OH}/$   
 $\text{H}_2\text{O}$  + 0.02% Acetic Acid  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 210 nm  
**Run Time:** 11.0 min  
**k'**: 2.11  
 **$\alpha$ :** 2.29  
**Catalog #:** 1-799101-300



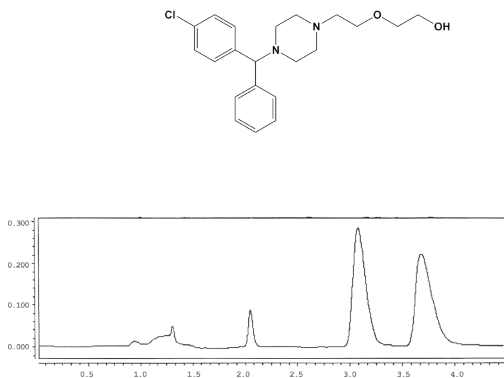
## Hydroxyzine

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (85/15)  
Hexane/Ethanol + 0.1% DEA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**k'**: 1.64  
 **$\alpha$ :** 1.36  
**CAS #:** 68-88-2  
**Catalog #:** 1-783104-300



## Hydroxyzine

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (80/20)  
 $\text{CO}_2/\text{CH}_3\text{OH}$  + 0.5% DEA  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40  $^\circ\text{C}$   
**Pressure:** 125 bar  
**Detection:** UV 254 nm  
**k'**: 3.11  
 **$\alpha$ :** 1.26  
**Catalog #:** 1-783104-300



## Hydroxyzine

**Column:** RegisCell,

5  $\mu$ m, 25 cm x 4.6 mm

**Mobile Phase:** (98/2)

Hexane/Ethanol+ 0.1% DEA

**Flow Rate:** 1.5 mL/min

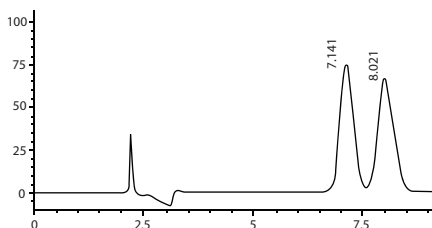
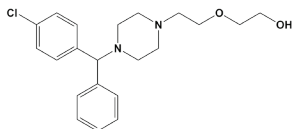
**Detection:** UV 254 nm

**k':** 2.76

**$\alpha$ :** 1.17

**CAS #:** 68-88-2

**Catalog #:** 1-784104-300



## Ibuprofen

**Column:** (S,S) Whelk-O 1,

5  $\mu$ m, 25 cm x 4.6 mm

**Mobile Phase:** (90/10)

Hexane/IPA + 0.1 % Acetic Acid

+ 0.1% Acetic Acid

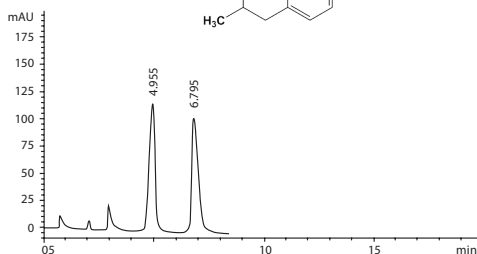
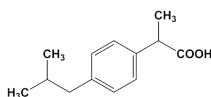
**Flow Rate:** 1.5 mL/min

**Detection:** UV 254 nm

**k':** 1.57

**$\alpha$ :** 2.52

**Catalog #:** 1-780101-300



## Ibuprofen

**Column:** (R,R) Whelk-O 1,

5  $\mu$ m, 25 cm x 4.6 mm

**Mobile Phase:** (90/10)

Hexane/IPA

+ 0.01 M Ammonium Acetate

**Flow Rate:** 1.5 mL/min

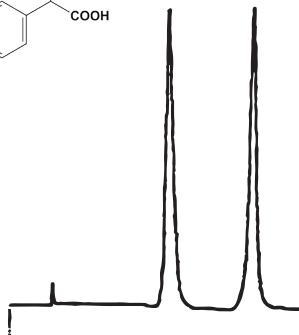
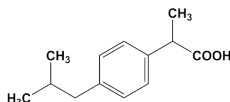
**Detection:** UV 254 nm

**Run Time:** 11.8 min

**k':** 3.21

**$\alpha$ :** 1.72

**Catalog #:** 1-780201-300



## Ibuprofen

**Column:** (S,S) Whelk-O 1,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (95/5)

CO<sub>2</sub>/Ethanol

+ 0.5% Acetic Acid

**Flow Rate:** 4.0 mL/min

**Temperature:** 40 °C

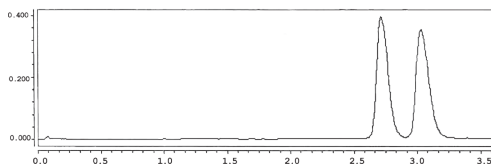
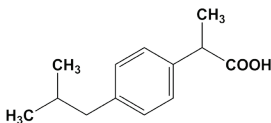
**Pressure:** 125 bar

**Detection:** UV 254 nm

**k'**: 2.62

**$\alpha$ :** 1.16

**Catalog #:** 1-780101-300



## Ibuprofen

**Column:** Reflect I-Amylose A,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (90/10/0.1)

Hexane/Ethanol/Acetic Acid

**Flow Rate:** 1.5 mL/min

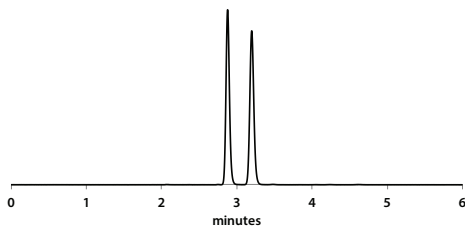
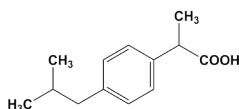
**Detection:** UV 254 nm

**k'**: 2.88

**$\alpha$ :** 3.20

**CAS #:** 15687-27-1

**Catalog #:** 1-591204-300



## Ibuprofen

**Column:** Reflect C-Amylose A,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (90/10/0.1)

Hexane/Ethanol/Acetic Acid

**Flow Rate:** 1.5 mL/min

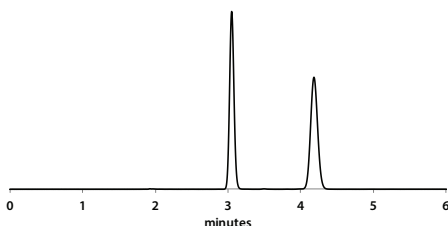
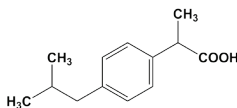
**Detection:** UV 254 nm

**k'**: 0.50

**$\alpha$ :** 2.18

**CAS #:** 15687-27-1

**Catalog #:** 1-580204-300



## Ibuprofenol

**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (99/1)  
Hexane/IPA

**Flow Rate:** 1.0 mL/min

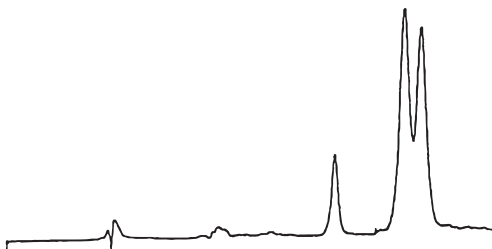
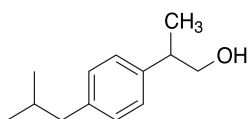
**Detection:** UV 254 nm

**Run Time:** 14 min

**k':** 3.38

**$\alpha$ :** 1.05

**Catalog #:** 1-780101-300,  
1-780201-300



## Idazoxan

**Column:** (S,S) Whelk-O 1,  
10  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (70/29/1)  
Hexane/Methylene

Chloride/IPA + 0.1% TEA

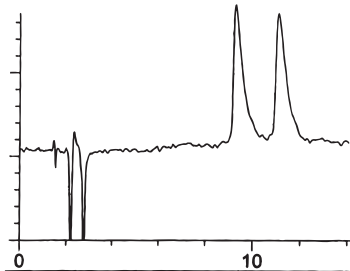
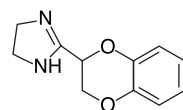
**Flow Rate:** 2.0 mL/min

**Detection:** UV 254 nm

**k':** 5.86

**$\alpha$ :** 1.23

**Catalog #:** 1-786615-300



## Idazoxan

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (98/2)

Hexane/Ethanol + 0.1% DEA

**Flow Rate:** 1.5 mL/min

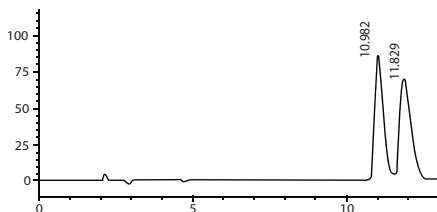
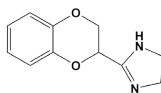
**Detection:** UV 254 nm

**k':** 4.78

**$\alpha$ :** 1.09

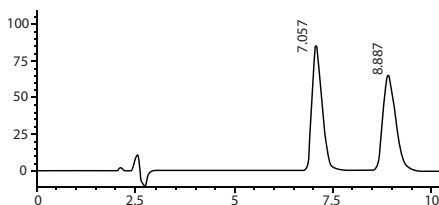
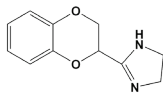
**CAS #:** 79944-58-4

**Catalog #:** 1-783104-300



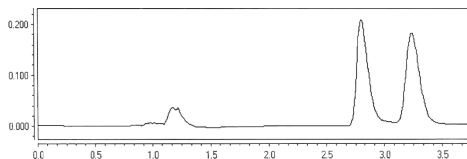
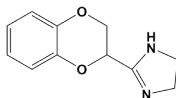
## Idazoxan

**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
Hexane/IPA + 0.1% DEA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**k'**: 2.71  
 **$\alpha$ :** 1.35  
**CAS #:** 79944-58-4  
**Catalog #:** 1-784104-300



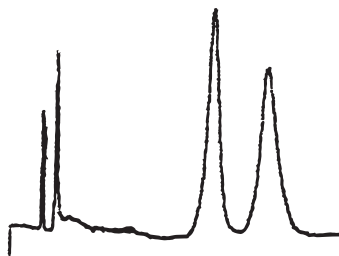
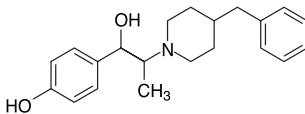
## Idazoxan

**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (85/15)  
 $\text{CO}_2$ /IPA + 0.5% DEA  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40  $^\circ\text{C}$   
**Pressure:** 125 bar  
**Detection:** UV 254 nm  
**k'**: 2.73  
 **$\alpha$ :** 1.21  
**Catalog #:** 1-784104-300



## Ifenprodil

**Column:** (S,S) Whelk-O 1,  
10  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (85/15)  
Hexane/IPA  
+ 0.01 M Ammonium Acetate  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
**Run Time:** 16.5 min  
**k'**: 6.16  
 **$\alpha$ :** 1.32  
**Catalog #:** 1-780101-300



## Ifenprodil

**Column:** (S,S) Whelk-O 1,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (70/30)  
CO<sub>2</sub>/Ethanol + 0.5% DEA

**Flow Rate:** 4.0 mL/min

**Temperature:** 40 °C

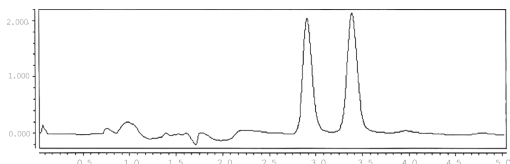
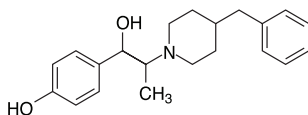
**Pressure:** 125 bar

**Detection:** UV 220 nm

**k':** 2.88

**$\alpha$ :** 1.22

**Catalog #:** 1-780101-300



## Ifenprodil

**Column:** RegisPack,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (85/15)  
Hexane/Ethanol + 0.1% DEA

**Flow Rate:** 1.5 mL/min

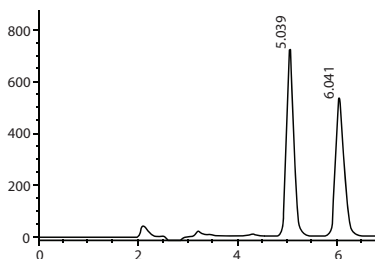
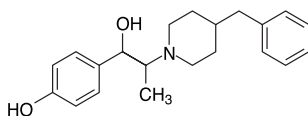
**Detection:** UV 220 nm

**k':** 1.65

**$\alpha$ :** 1.32

**CAS #:** 23210-56-2

**Catalog #:** 1-783104-300



## Imazalil

**Column:** Reflect I-Cellulose C,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (90/10) CO<sub>2</sub>/  
Methanol+0.2% DEA

**Flow Rate:** 3.0 mL/min

**Temperature:** 30 °C

**Pressure:** 150 bar

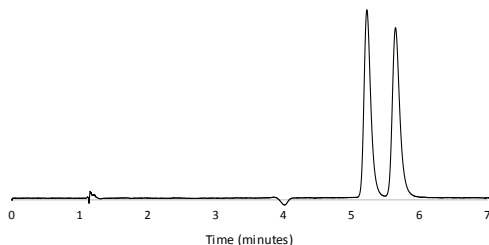
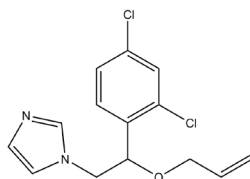
**Detection:** UV 210 nm

**k':** 4.22

**$\alpha$ :** 1.10

**CAS #:** 35554-44-0

**Catalog #:** 1-593204-300



## Imazalil

**Column:** Reflect I-Cellulose J,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (95/5)  $\text{CO}_2$ /  
IPA+0.5% TFA

**Flow Rate:** 3.0 mL/min

**Temperature:** 30  $^\circ\text{C}$

**Pressure:** 150 bar

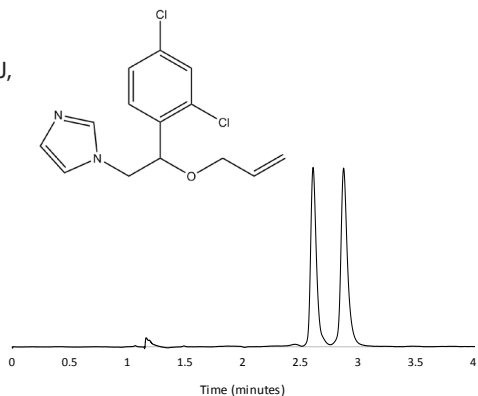
**Detection:** UV 210 nm

**$k'$ :** 1.25

**$\alpha$ :** 1.28

**CAS #:** 33586-66-2

**Catalog #:** 1-594204-300



## Imazapyr

**Column:** Reflect I-Cellulose J,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (90/10)  $\text{CO}_2$ /  
Methanol+0.4% TFA

**Flow Rate:** 3.0 mL/min

**Temperature:** 30  $^\circ\text{C}$

**Pressure:** 150 bar

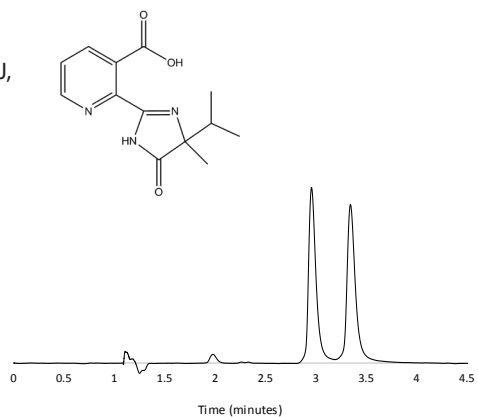
**Detection:** UV 210 nm

**$k'$ :** 1.95

**$\alpha$ :** 1.20

**CAS #:** 81334-34-1

**Catalog #:** 1-594204-300



## 1-Indanol

**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (98/2)  
Hexane/IPA

**Flow Rate:** 1.5 mL/min

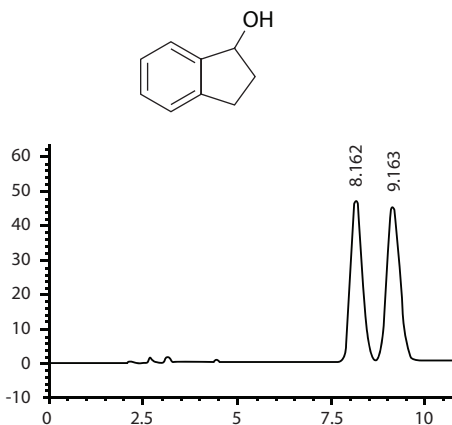
**Detection:** UV 254 nm

**$k'$ :** 3.30

**$\alpha$ :** 1.16

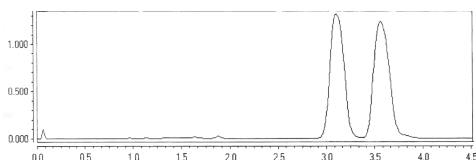
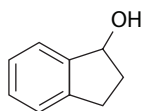
**CAS #:** 6351-10-6

**Catalog #:** 1-784104-300



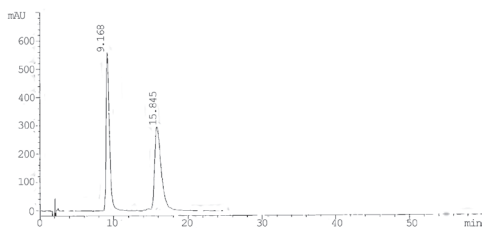
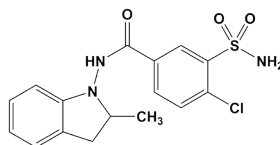
## 1-Indanol

**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (96/4)  
 $\text{CO}_2$ /IPA  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40  $^\circ\text{C}$   
**Pressure:** 125 bar  
**Detection:** UV 220 nm  
 **$k'$ :** 3.14  
 **$\alpha$ :** 1.19  
**Catalog #:** 1-784104-300



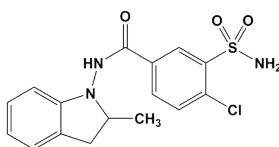
## Indapamide

**Column:** (S,S) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (50/50)  
Hexane/IPA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
 **$k'$ :** 3.75  
 **$\alpha$ :** 1.92  
**Catalog #:** 1-780101-300



## Indapamide

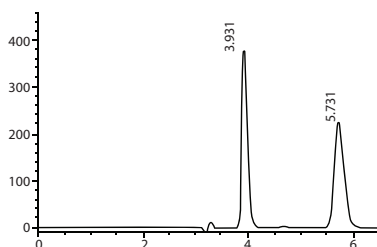
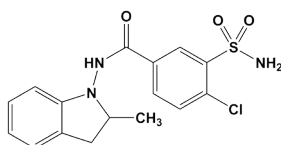
**Column:** (S,S) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (50/50)  
Hexane/IPA  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 220 nm  
**Run Time:** 14 min  
 **$k'$ :** 2.46  
 **$\alpha$ :** 1.68  
**Catalog #:** 1-780101-300





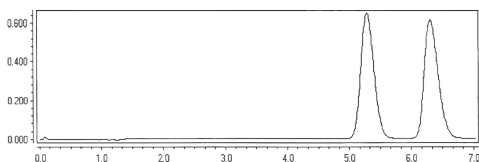
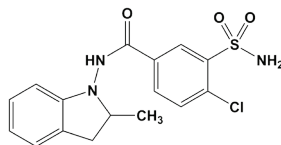
## Indapamide

**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** 100%  
Methanol  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**k'**: 0.36  
 **$\alpha$ :** 2.75  
**CAS #:** 26807-65-8  
**Catalog #:** 1-784104-300



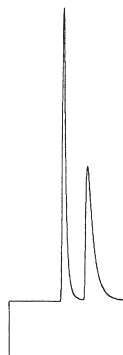
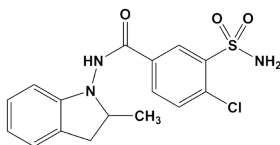
## Indapamide

**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (80/20)  
CO<sub>2</sub>/CH<sub>3</sub>OH  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40 °C  
**Pressure:** 125 bar  
**Detection:** UV 254 nm  
**k'**: 6.04  
 **$\alpha$ :** 1.23  
**Catalog #:** 1-784104-300



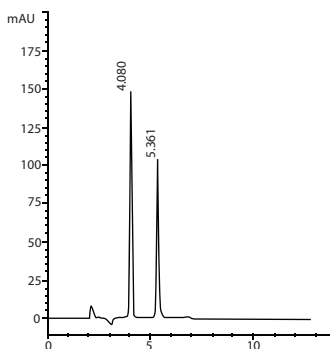
## Indapamide

**Column:** (R,R) ULMO,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (75/25)  
Hexane/IPA  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 16 min  
**k'**: 3.09  
 **$\alpha$ :** 1.58  
**Catalog #:** 1-787200-300



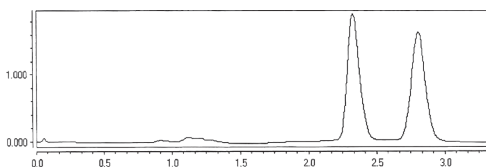
## Indatraline

**Column:** RegisPack,  
5  $\mu$ m, 25 cm x 4.6 mm  
**Mobile Phase:** (95/5)  
Hexane/Ethanol + 0.1% DEA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**K'**<sub>1</sub>: 1.14  
 **$\alpha$ :** 1.29  
**CAS #:** 86939-10-8  
**Catalog #:** 1-783104-300



## Indatraline

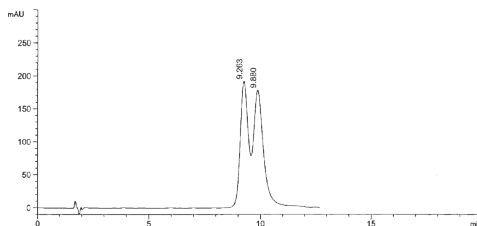
**Column:** RegisPack,  
5  $\mu$ m, 25 cm x 4.6 mm  
**Mobile Phase:** (80/20)  
CO<sub>2</sub>/CH<sub>3</sub>OH + 0.5% DEA  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40 °C  
**Pressure:** 125 bar  
**Detection:** UV 220 nm  
**K'**<sub>1</sub>: 2.11  
 **$\alpha$ :** 1.30  
**Catalog #:** 1-783104-300



## Indole

*N*-[2-(2-furoylamino)benzoyl]tryptophan

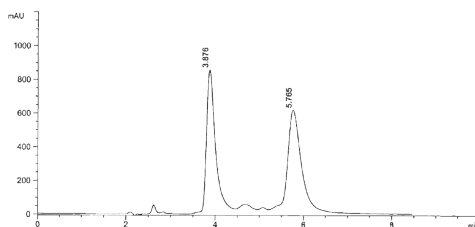
**Column:** (S,S) Whelk-O 1,  
5  $\mu$ m, 25 cm x 4.6 mm  
**Mobile Phase:** (60/40)  
Hexane/Ethanol  
+ 0.1% TFA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
**K'**<sub>1</sub>: 3.87  
**K'**<sub>2</sub>: 4.20  
 **$\alpha$ :** 1.09  
**Catalog #:** 1-780101-300



## Indole

*N*-[2-(2-furoylamino)benzoyl]tryptophan

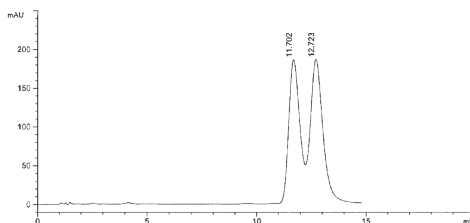
**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (85/15)  
Hexane/IPA + 0.1% TFA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
**k'**<sub>1</sub>: 4.57  
**k'**<sub>2</sub>: 5.85  
 **$\alpha$** : 1.28  
**Catalog #:** 1-783104-300



## Indole

2-[[2-(1*H*-indol-3-yl)ethyl]amino]-4,6'-dimethyl-6-oxo-5,6-dihydro-4*H*-1,2'-bipyrimidine-4-carboxylic acid

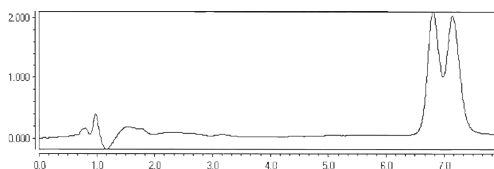
**Column:** (S,S) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (60/40)  
Hexane/Ethanol  
**Flow Rate:** 2.0 mL/min  
**Detection:** UV 220 nm  
**k'**<sub>1</sub>: 7.07  
**k'**<sub>2</sub>: 7.77  
 **$\alpha$** : 1.10  
**Catalog #:** 1-780101-300



## Indole

2-[[2-(1*H*-indol-3-yl)ethyl]amino]-4,6'-dimethyl-6-oxo-5,6-dihydro-4*H*-1,2'-bipyrimidine-4-carboxylic acid

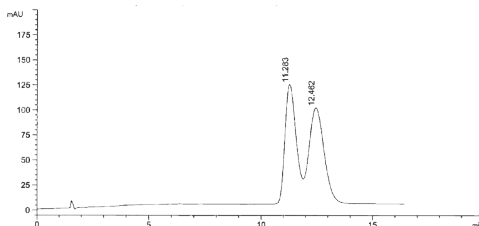
**Column:** (S,S) Whelk-O 1, 5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (60/40)  
CO<sub>2</sub>/Ethanol + 0.2% TFA  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40 °C  
**Pressure:** 125 bar  
**Detection:** UV 220 nm  
**k'**<sub>1</sub>: 8.09  
**k'**<sub>2</sub>: 8.53  
 **$\alpha$** : 1.05  
**Catalog #:** 1-780101-300



## Indole

1-{1-[2-(2-methyl-2,3-dihydro-1H-indol-1-yl)-2-oxoethyl]-1H-indol-3-yl}-2-(4-morpholinyl)-2-oxoethanone

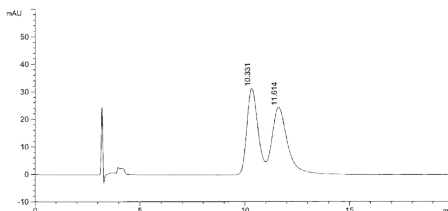
**Column:** RegisPack,  
5  $\mu$ m, 25 cm x 4.6 mm  
**Mobile Phase:** (80/20)  
Hexane/Ethanol  
**Flow Rate:** 2.0 mL/min  
**Detection:** UV 220 nm  
**k':** 6.78  
**k'2:** 7.59  
 **$\alpha$ :** 1.12  
**Catalog #:** 1-783104-300



## Indole

1,3-dimethyl-5-({1-[2-(2-methyl-1-piperidinyl)-2-oxoethyl]-1H-indol-3-yl}methylene)-2,4,6(1H,3H,5H)-pyrimidinetrione

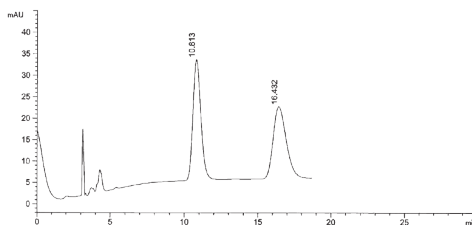
**Column:** RegisPack,  
5  $\mu$ m, 25 cm x 4.6 mm  
**Mobile Phase:** 100% Ethanol  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 220 nm  
**k':** 2.56  
**k'2:** 3.00  
 **$\alpha$ :** 1.17  
**Catalog #:** 1-783104-300



## Indole

1,3-dimethyl-5-({1-[2-(2-methyl-1-piperidinyl)-2-oxoethyl]-1H-indol-3-yl}methylene)-2,4,6(1H,3H,5H)-pyrimidinetrione

**Column:** RegisCell,  
5  $\mu$ m, 25 cm x 4.6 mm  
**Mobile Phase:** 100% Ethanol  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 220 nm  
**k':** 2.73  
**k'2:** 4.67  
 **$\alpha$ :** 1.71  
**Catalog #:** 1-784104-300



## Indole

*N*-[2-[(4-methylbenzoyl)amino]benzoyl]tryptophan

**Column:** (S,S) Whelk-O 1,

5  $\mu$ m, 25 cm x 4.6 mm

**Mobile Phase:** (65/35)

Hexane/IPA + 0.1% TFA

**Flow Rate:** 2.0 mL/min

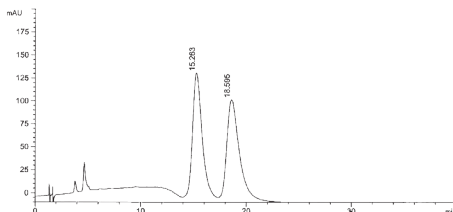
**Detection:** UV 220 nm

**k'**<sub>1</sub>: 9.52

**k'**<sub>2</sub>: 11.83

**$\alpha$** : 1.24

**Catalog #:** 1-780101-300



## Indole

*N*-[2-[(4-methylbenzoyl)amino]benzoyl]tryptophan

**Column:** RegisPack,

5  $\mu$ m, 25 cm x 4.6 mm

**Mobile Phase:** (70/30)

Hexane/IPA + 0.1% TFA

**Flow Rate:** 1.5 mL/min

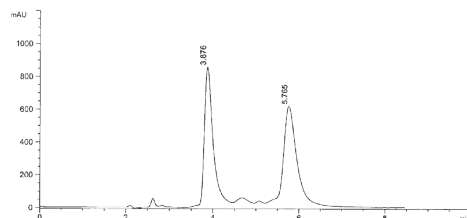
**Detection:** UV 220 nm

**k'**<sub>1</sub>: 1.04

**k'**<sub>2</sub>: 2.04

**$\alpha$** : 1.96

**Catalog #:** 1-783104-300



## Indole

*N*-[2-[(4-methylbenzoyl)amino]benzoyl]tryptophan

**Column:** RegisPack,

5  $\mu$ m, 25 cm x 4.6 mm

**Mobile Phase:** (70/30)

CO<sub>2</sub>/Ethanol + 0.2% DEA

**Flow Rate:** 4.0 mL/min

**Temperature:** 40 °C

**Pressure:** 125 bar

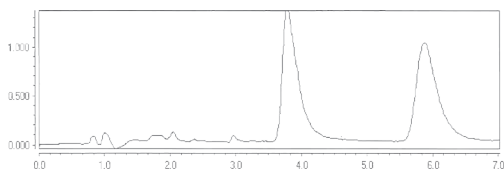
**Detection:** UV 220 nm

**k'**<sub>1</sub>: 4.04

**k'**<sub>2</sub>: 6.85

**$\alpha$** : 1.70

**Catalog #:** 1-783104-300



## Indoprofen

**Column:** (S,S) Whelk-O 1,

10  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (80/20)

Hexane/Ethanol +

0.01 M Ammonium Acetate

**Flow Rate:** 2.0 mL/min

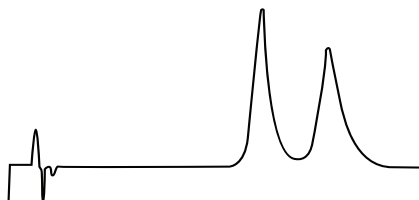
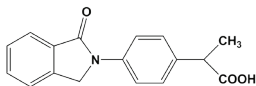
**Detection:** UV 254 nm

**Run Time:** 17.0 min

**k'**: 8.93

**$\alpha$ :** 1.32

**Catalog #:** 1-786615-300



## Indoprofen

**Column:** Reflect I-Cellulose B,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (85/15/0.1) Hexane/

Ethanol/Acetic Acid

**Flow Rate:** 1.5 mL/min

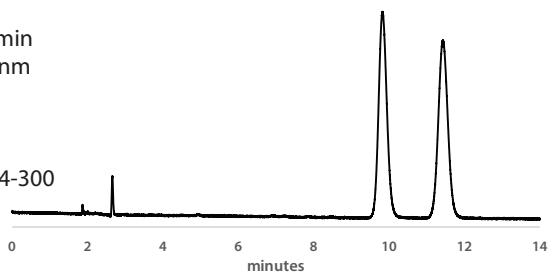
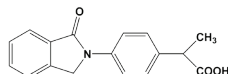
**Detection:** UV 254 nm

**k'**: 3.90

**$\alpha$ :** 1.20

**CAS #:** 31842-01-0

**Catalog #:** 1-592204-300



## Indoprofen

**Column:** Reflect C-Cellulose B,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (85/15/0.1) Hexane/

Ethanol/Acetic Acid

**Flow Rate:** 1.5 mL/min

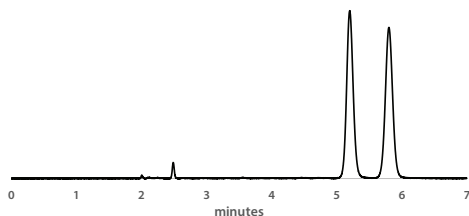
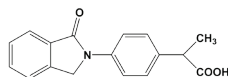
**Detection:** UV 254 nm

**k'**: 1.55

**$\alpha$ :** 1.22

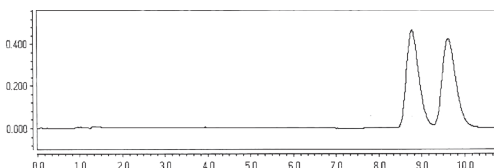
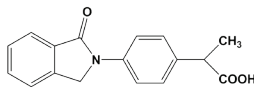
**CAS #:** 31842-01-1

**Catalog #:** 1-590204-300



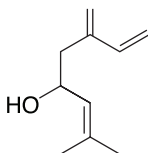
## Indoprofen

**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
 $\text{CO}_2/\text{CH}_3\text{OH}$  + 0.5% DEA  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40  $^\circ\text{C}$   
**Pressure:** 125 bar  
**Detection:** UV 254 nm  
 **$k'$ :** 10.70  
 **$\alpha$ :** 1.11  
**Catalog #:** 1-784104-300



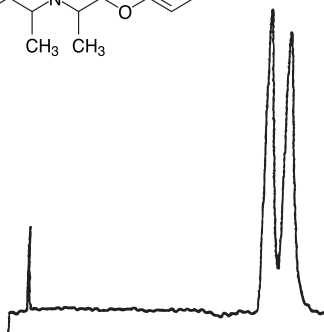
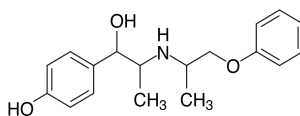
## Ipsdienol

**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (98/2)  
Hexane/IPA  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 8 min  
 **$k'$ :** 0.95  
 **$\alpha$ :** 1.21  
**Catalog #:** 1-780101-300,  
1-780201-300



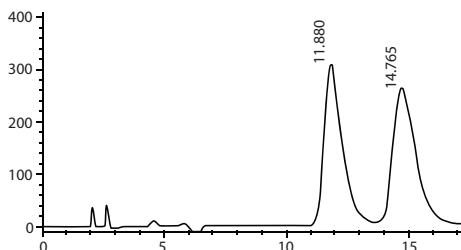
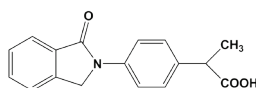
## Isoxsuprine

**Column:** (R,R) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (95/5)  
Hexane/Ethanol + 0.01 M  
Ammonium Acetate  
**Flow Rate:** 2.0 mL/min  
**Detection:** UV 220 nm  
**Run Time:** 28.0 min  
 **$k'$ :** 17.91  
 **$\alpha$ :** 1.08  
**Catalog #:** 1-780201-300



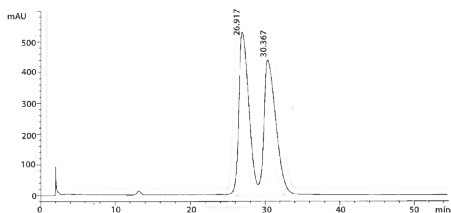
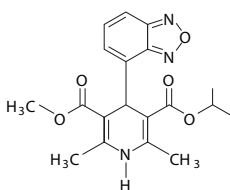
## Isoxsuprine

**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
Hexane/IPA  
+ 0.1% TFA + 0.1% TEA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
 **$k'$ :** 5.25  
 **$\alpha$ :** 1.29  
**CAS #:** 395-28-8  
**Catalog #:** 1-784104-300



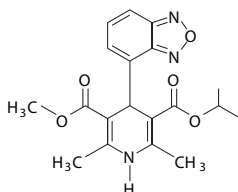
## Isradipine

**Column:** (S,S) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
Hexane/IPA + 0.5% TEA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
 **$k'$ :** 12.95  
 **$\alpha$ :** 1.14  
**Catalog #:** 1-780101-300



## Isradipine

**Column:** (S,S) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (98/2)  
Hexane/IPA + 0.5 % TEA  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 52 min  
 **$k'$ :** 9.71  
 **$\alpha$ :** 1.10  
**Catalog #:** 1-780101-300





## Isradipine

Reversed Phase

**Column:** (S,S) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (63/37)

MeOH/H<sub>2</sub>O

**Flow Rate:** 1.0 mL/min

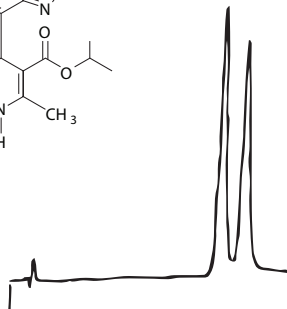
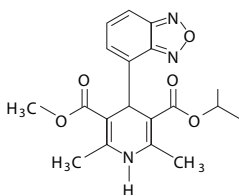
**Detection:** UV 254 nm

**Run Time:** 35 min

**k':** 11.21

**$\alpha$ :** 1.12

**Catalog #:** 1-780101-300



## Ketamine

**Column:** (S,S) Whelk-O 1,

10  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (99/1)

Hexane/IPA + 0.1% TEA

**Flow Rate:** 1.0 mL/min

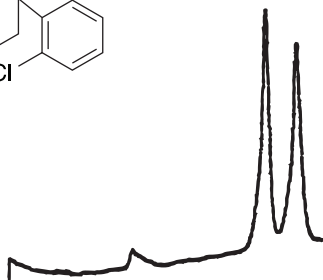
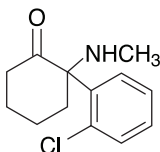
**Detection:** UV 254 nm

**Run Time:** 22.0 min

**k':** 6.37

**$\alpha$ :** 1.14

**Catalog #:** 1-786615-300



## Ketamine

**Column:** Reflect I-Amylose A,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (90/10/0.1)

Hexane/Ethanol/DEA

**Flow Rate:** 1.5 mL/min

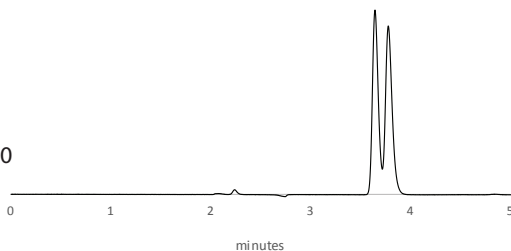
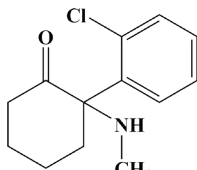
**Detection:** UV 254 nm

**k':** 0.82

**$\alpha$ :** 1.08

**CAS #:** 1867-66-9

**Catalog #:** 1-591204-300



## Ketamine

**Column:** Reflect I-Cellulose B,

5  $\mu$ m, 25 cm x 4.6 mm

**Mobile Phase:** (95/5/0.1)

Hexane/Ethanol/DEA

**Flow Rate:** 1.5 mL/min

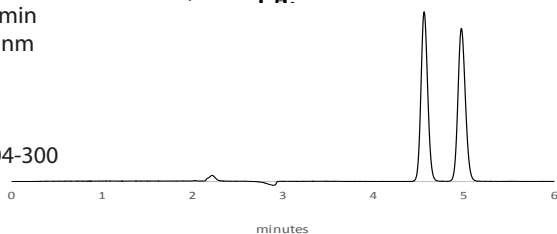
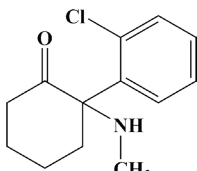
**Detection:** UV 254 nm

**k':** 1.27

**$\alpha$ :** 1.16

**CAS #:** 1867-66-9

**Catalog #:** 1-592204-300



## Ketamine

**Column:** Reflect I-Cellulose C,

5  $\mu$ m, 25 cm x 4.6 mm

**Mobile Phase:** (95/5/0.1)

Hexane/Ethanol/DEA

**Flow Rate:** 1.5 mL/min

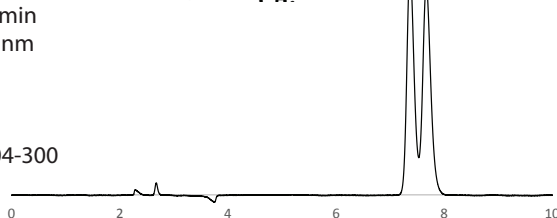
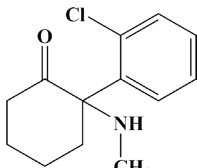
**Detection:** UV 254 nm

**k':** 2.68

**$\alpha$ :** 1.06

**CAS #:** 1867-66-9

**Catalog #:** 1-593204-300



## Ketamine

**Column:** Reflect I-Cellulose J,

5  $\mu$ m, 25 cm x 4.6 mm

**Mobile Phase:** (90/10/0.1)

Hexane/Ethanol/DEA

**Flow Rate:** 1.5 mL/min

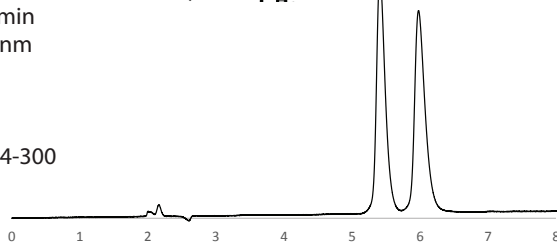
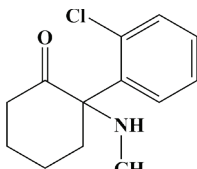
**Detection:** UV 254 nm

**k':** 1.70

**$\alpha$ :** 1.17

**CAS #:** 1867-66-9

**Catalog #:** 1-594204-300



## Ketamine

**Column:** Reflect I-Cellulose J,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (95/5)  $\text{CO}_2$ /  
IPA+0.2% DEA

**Flow Rate:** 3.0 mL/min

**Temperature:** 40  $^\circ\text{C}$

**Pressure:** 150 bar

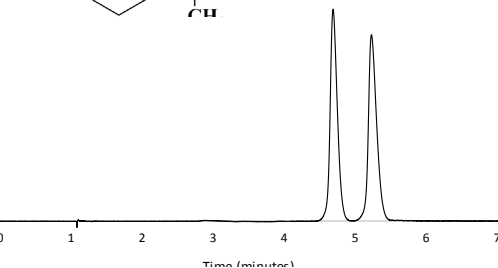
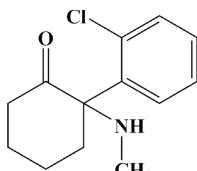
**Detection:** UV 254 nm

**$k'$ :** 3.68

**$\alpha$ :** 1.15

**CAS #:** 1867-66-9

**Catalog #:** 1-594204-300



## Ketoconazole

**Column:** (S,S) Whelk-O 1,  
10  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (46/46/8)

$\text{CH}_2\text{Cl}_2$ /Hexane/IPA

+ 0.01 M Ammonium Acetate

**Flow Rate:** 1.5 mL/min

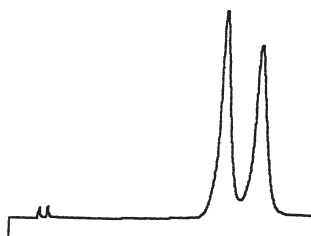
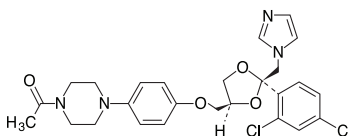
**Detection:** UV 254 nm

**Run Time:** 16.0 min

**$k'$ :** 6.60

**$\alpha$ :** 1.19

**Catalog #:** 1-786615-300



## Ketoconazole

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (50/50)

Hexane/Ethanol

+ 0.1% DEA

**Flow Rate:** 1.5 mL/min

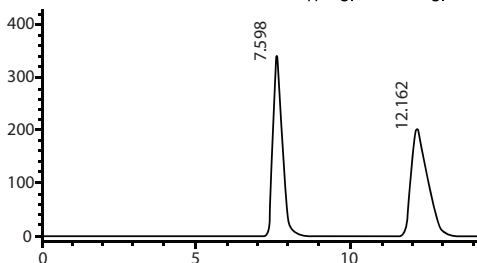
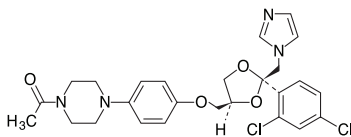
**Detection:** UV 254 nm

**$k'$ :** 3.00

**$\alpha$ :** 1.80

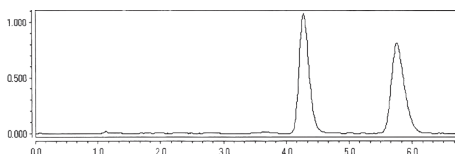
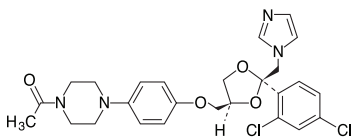
**CAS #:** 65277-42-1

**Catalog #:** 1-783104-300



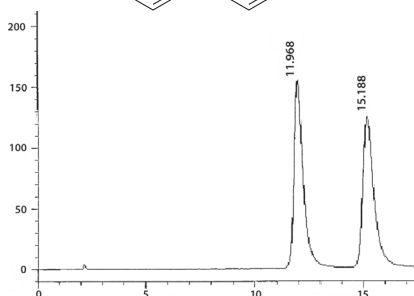
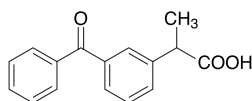
## Ketoconazole

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (60/40)  
 $\text{CO}_2$ /Ethanol + 0.5% DEA  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40  $^\circ\text{C}$   
**Pressure:** 125 bar  
**Detection:** UV 254 nm  
**k'**: 4.70  
 **$\alpha$** : 1.42  
**Catalog #:** 1-783104-300



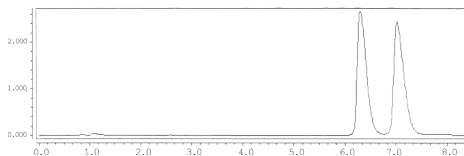
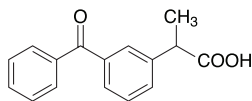
## Ketoprofen

**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
Hexane/Ethanol + 10 mM  
Ammonium Acetate  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 11.0 min  
**k'**: 5.20  
 **$\alpha$** : 1.32  
**Catalog #:** 1-780101-300,  
1-780201-300



## Ketoprofen

**Column:** (S,S) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (80/20)  
 $\text{CO}_2$ /Ethanol + 0.5% DEA  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40  $^\circ\text{C}$   
**Pressure:** 125 bar  
**Detection:** UV 254 nm  
**k'**: 7.41  
 **$\alpha$** : 1.13  
**Catalog #:** 1-780101-300



## Ketoprofen

**Column:** Reflect C-Amylose A,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (80/20/0.1)

Hexane/Ethanol/Acetic Acid

**Flow Rate:** 1.5 mL/min

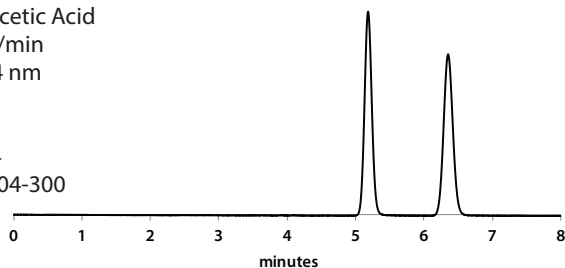
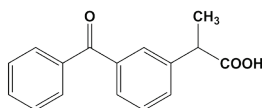
**Detection:** UV 254 nm

**k':** 1.59

**$\alpha$ :** 1.37

**CAS #:** 22071-15-4

**Catalog #:** 1-580204-300



## Ketoprofen

**Column:** RegisPack,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (90/10)

CO<sub>2</sub>/Ethanol + 0.5% DEA

**Flow Rate:** 4.0 mL/min

**Temperature:** 40 °C

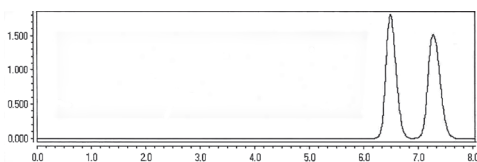
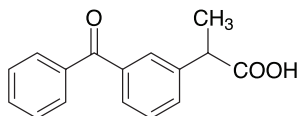
**Pressure:** 125 bar

**Detection:** UV 254 nm

**k':** 7.65

**$\alpha$ :** 1.14

**Catalog #:** 1-783104-300



## Ketoprofen as 1-naphthylamide

**Column:** (S,S) ULMO,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (70/30)

Heptane/IPA

**Flow Rate:** 1.0 mL/min

**Detection:** UV 230 nm

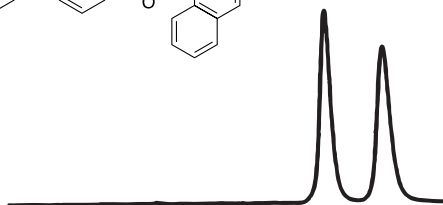
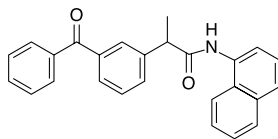
**Run Time:** 13 min

**k':** 1.51

**$\alpha$ :** 1.25

**Reference:** 48

**Catalog #:** 1-787100-300



## Ketorolac

**Column:** (S,S) Whelk-O 1,

5  $\mu$ m, 25 cm x 4.6 mm

**Mobile Phase:** (90/10)

Hexane/Ethanol

+ 0.1% Acetic Acid

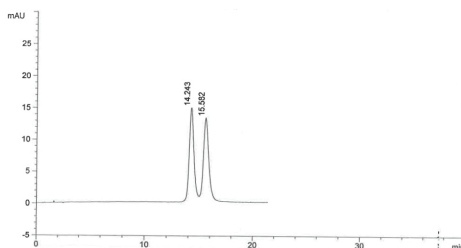
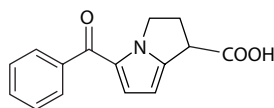
**Flow Rate:** 2.0 mL/min

**Detection:** UV 254 nm

**k'**: 8.82

**$\alpha$ :** 1.11

**Catalog #:** 1-780101-300



## Ketorolac

**Column:** (R,R) Whelk-O 1,

5  $\mu$ m, 25 cm x 4.6 mm

**Mobile Phase:** (98/2)

Hexane/IPA + 0.1% TFA

**Flow Rate:** 1.5 mL/min

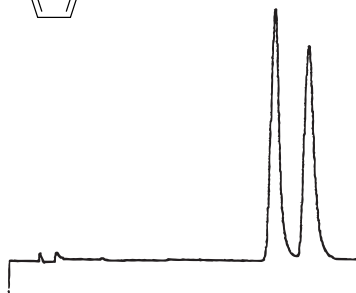
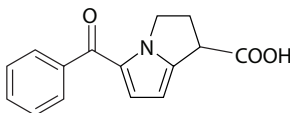
**Detection:** UV 254 nm

**Run Time:** 20.0 min

**k'**: 8.87

**$\alpha$ :** 1.15

**Catalog #:** 1-780201-300



## Ketorolac

**Column:** (S,S) Whelk-O 1,

5  $\mu$ m, 25 cm x 4.6 mm

**Mobile Phase:** (80/20)

CO<sub>2</sub>/Ethanol + 0.5% Acetic Acid

**Flow Rate:** 4.0 mL/min

**Temperature:** 40 °C

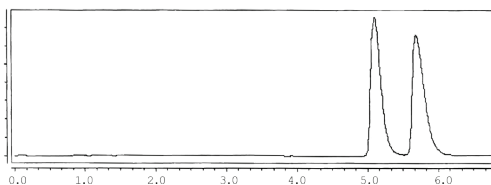
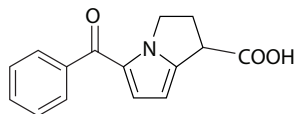
**Pressure:** 125 bar

**Detection:** UV 254 nm

**k'**: 5.80

**$\alpha$ :** 1.13

**Catalog #:** 1-780101-300



## Ketorolac

**Column:** Reflect I-Amylose A,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (70/30/0.1)

Hexane/Ethanol/Acetic Acid

**Flow Rate:** 1.5 mL/min

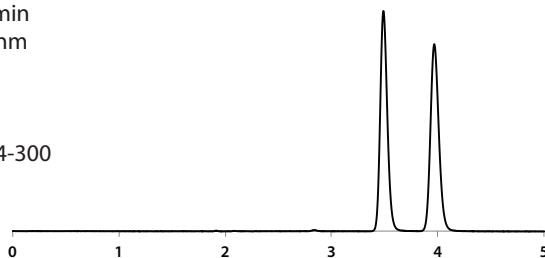
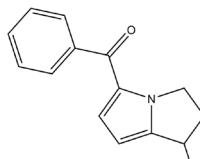
**Detection:** UV 254 nm

**k'**: 0.74

**$\alpha$ :** 1.32

**CAS #:** 74103-06-3

**Catalog #:** 1-591204-300



## Ketorolac

**Column:** Reflect I-Cellulose J,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (70/30/0.1)

Hexane/Ethanol/Ascorbic Acid

**Flow Rate:** 1.5 mL/min

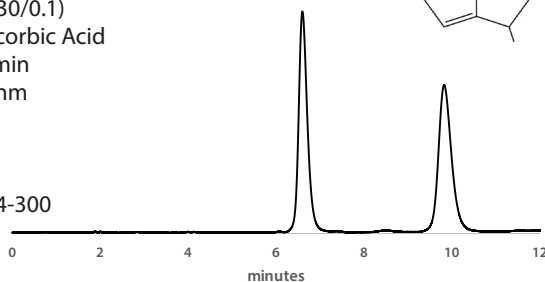
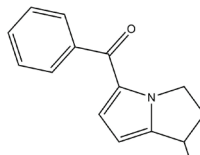
**Detection:** UV 254 nm

**k'**: 2.29

**$\alpha$ :** 1.70

**CAS #:** 74103-06-3

**Catalog #:** 1-594204-300



## Ketorolac

**Column:** Reflect C-Amylose A,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (70/30/0.1)

Hexane/Ethanol/Acetic Acid

**Flow Rate:** 1.5 mL/min

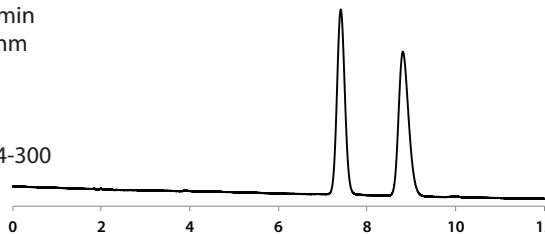
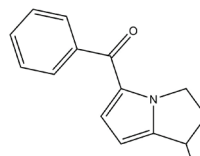
**Detection:** UV 254 nm

**k'**: 2.70

**$\alpha$ :** 1.26

**CAS #:** 74103-06-3

**Catalog #:** 1-580204-300



## Ketorolac

**Column:** Reflect I-Cellulose J,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (80/20)  $\text{CO}_2$ /  
Methanol

**Flow Rate:** 3.0 mL/min

**Temperature:** 40  $^\circ\text{C}$

**Pressure:** 150 bar

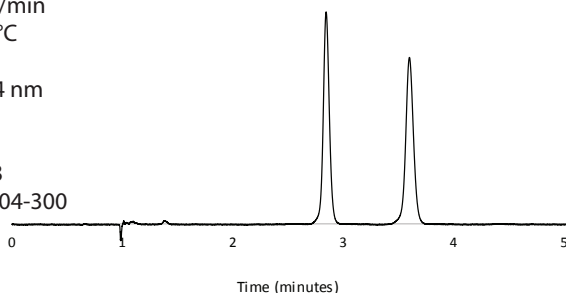
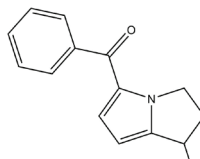
**Detection:** UV 254 nm

**$k'$ :** 1.84

**$\alpha$ :** 1.41

**CAS #:** 74103-06-3

**Catalog #:** 1-594204-300



## Kynurenine

**Column:** (S,S) Whelk-O 1,

10  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (65/35)

$\text{H}_2\text{O}/\text{CH}_3\text{OH}$

+ 0.1% Acetic Acid

**Flow Rate:** 1.0 mL/min

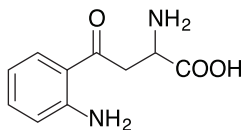
**Detection:** UV 254 nm

**Run Time:** 9.0 min

**$k'$ :** 1.17

**$\alpha$ :** 1.99

**Catalog #:** 1-786615-300



## Lacosamide (Enriched)

**Column:** RegisPack,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (50/50)

Ethanol/Methanol

**Flow Rate:** 1.0 mL/min

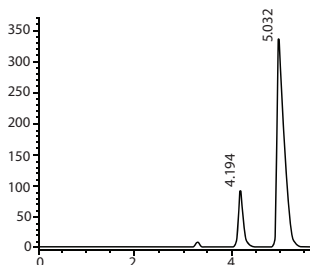
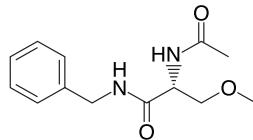
**Detection:** UV 220 nm

**$k'$ :** 0.45

**$\alpha$ :** 1.64

**CAS #:** 175481-36-4

**Catalog #:** 1-783104-300





## β-Lactam

**Column:** (S,S) DACH-DNB,

5 μm, 25 cm x 4.6 mm

**Mobile Phase:** (48/48/2)

Hexne/CH<sub>2</sub>Cl<sub>2</sub>/IPA

**Flow Rate:** 1.0 mL/min

**Detection:** UV 254 nm

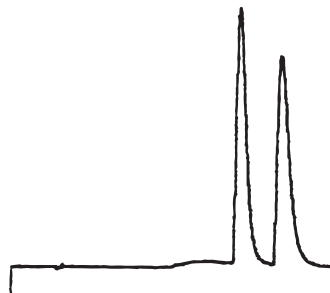
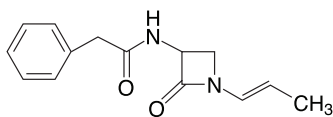
**Run Time:** 14.0 min

**k'**: 3.40

**α:** 1.33

**Reference:** 59

**Catalog #:** 1-788101-300



## Lansoprazole

**Column:** Reflect I-Amylose A,

5 μm, 25 cm x 4.6 mm

**Mobile Phase:** (80/20)

Hexane/Ethanol

**Flow Rate:** 1.5 mL/min

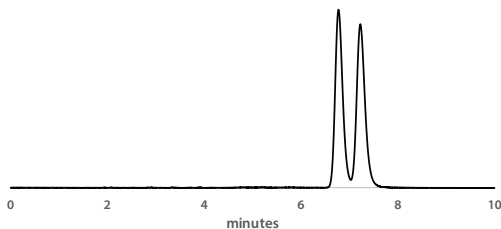
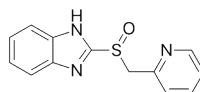
**Detection:** UV 254 nm

**k'**: 2.38

**α:** 1.09

**CAS#:** 103577-45-3

**Catalog #:** 1-591204-300



## Lansoprazole

**Column:** Reflect I-Cellulose B,

5 μm, 25 cm x 4.6 mm

**Mobile Phase:** (80/20)

Hexane/Ethanol

**Flow Rate:** 1.5 mL/min

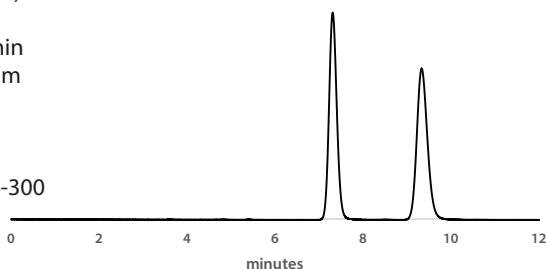
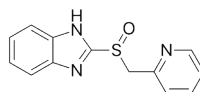
**Detection:** UV 254 nm

**k'**: 2.65

**α:** 1.38

**CAS#:** 103577-45-3

**Catalog #:** 1-592204-300



## Lansoprazole

**Column:** Reflect I-Cellulose C,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (60/40)  
Hexane/Ethanol

**Flow Rate:** 1.5 mL/min

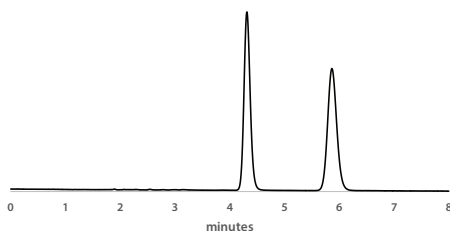
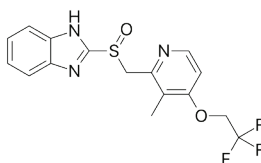
**Detection:** UV 254 nm

**k':** 1.15

**$\alpha$ :** 1.67

**CAS#:** 103577-45-3

**Catalog #:** 1-593204-300



## Lansoprazole

**Column:** Reflect C-Amylose A,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (80/20)  
Hexane/IPA

**Flow Rate:** 1.5 mL/min

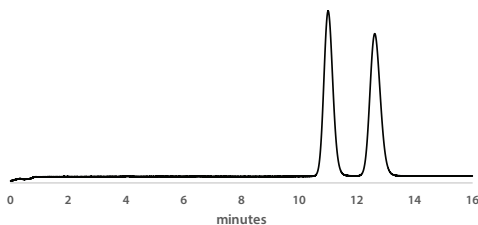
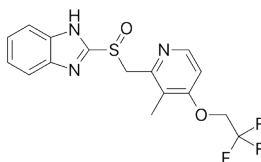
**Detection:** UV 254 nm

**k':** 4.49

**$\alpha$ :** 1.18

**CAS#:** 103577-45-3

**Catalog #:** 1-580204-300



## Lansoprazole

**Column:** Reflect C-Cellulose B,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (80/20)  
Hexane/Ethanol

**Flow Rate:** 1.5 mL/min

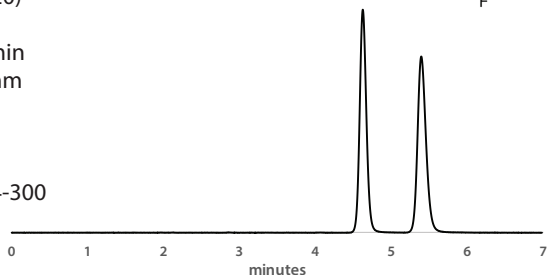
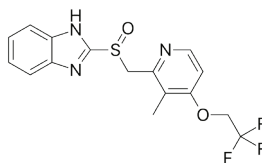
**Detection:** UV 254 nm

**k':** 1.31

**$\alpha$ :** 1.29

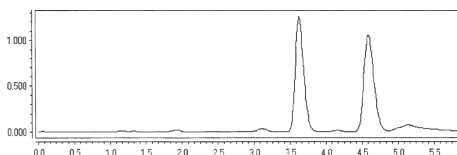
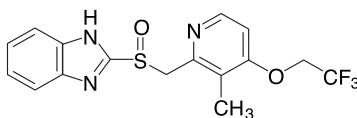
**CAS#:** 103577-45-3

**Catalog #:** 1-590204-300



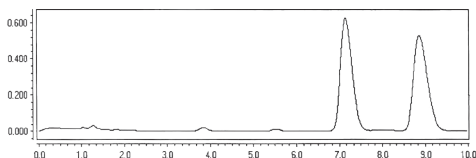
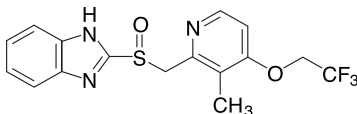
## Lansoprazole

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (80/20)  
CO<sub>2</sub>/Ethanol  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40 °C  
**Pressure:** 125 bar  
**Detection:** UV 254 nm  
**k'**: 3.83  
 **$\alpha$ :** 1.34  
**Catalog #:** 1-783104-300



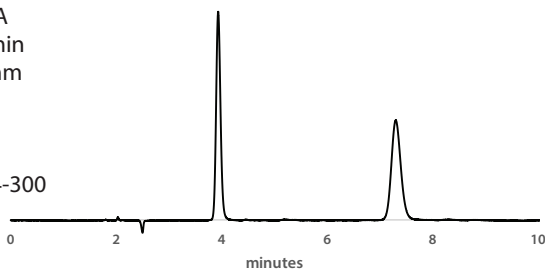
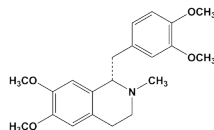
## Lansoprazole

**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
CO<sub>2</sub>/Ethanol  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40 °C  
**Pressure:** 125 bar  
**Detection:** UV 254 nm  
**k'**: 8.52  
 **$\alpha$ :** 1.27  
**Catalog #:** 1-784104-300



## Laudanosine

**Column:** Reflect I-Cellulose B,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (70/30/0.1)  
Hexane/Ethanol/DEA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
**k'**: 0.96  
 **$\alpha$ :** 2.74  
**CAS #:** 1699-51-0  
**Catalog #:** 1-592204-300



## Laudanosine

**Column:** Reflect C-Amylose A,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (70/30/0.1)

Hexane/Ethanol/DEA

**Flow Rate:** 1.5 mL/min

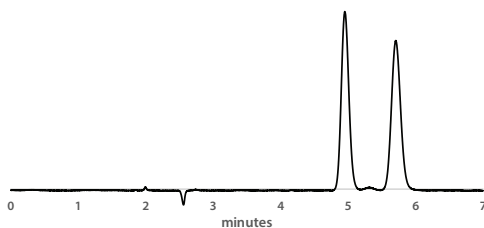
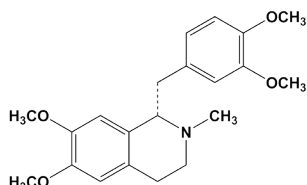
**Detection:** UV 220 nm

**k':** 1.47

**$\alpha$ :** 1.26

**CAS #:** 1699-51-0

**Catalog #:** 1-580204-300



## Laudanosine

**Column:** Reflect C-Cellulose B,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (70/30/0.1)

Hexane/Ethanol/DEA

**Flow Rate:** 1.5 mL/min

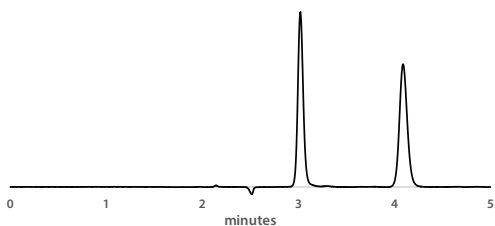
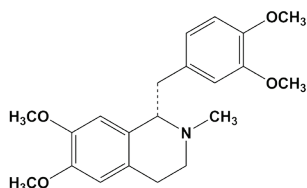
**Detection:** UV 220 nm

**k':** 0.51

**$\alpha$ :** 2.05

**CAS #:** 1699-51-0

**Catalog #:** 1-590204-300



## Laudanosine

**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (70/30)

CO<sub>2</sub>/IPA + 0.5% DEA

**Flow Rate:** 4.0 mL/min

**Temperature:** 40 °C

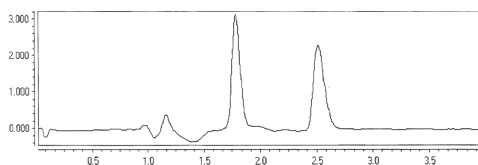
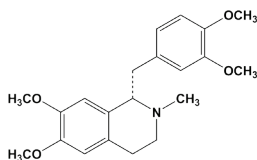
**Pressure:** 124 bar

**Detection:** UV 220 nm

**k':** 1.38

**$\alpha$ :** 1.71

**Catalog #:** 1-784104-300



## Leptophos (Phosvel)

**Column:** (S,S) Whelk-O 1,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** 100%

Hexane

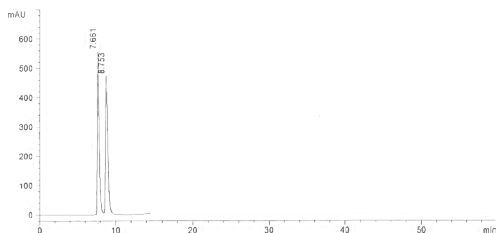
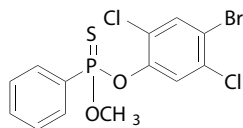
**Flow Rate:** 1.5 mL/min

**Detection:** UV 254 nm

**k'**: 2.97

**$\alpha$** : 1.19

**Catalog #:** 1-780101-300



## Leptophos, Phosvel

*Insecticide*

**Column:** Whelk-O 1,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** 100% Hexane

**Flow Rate:** 1.0 mL/min

**Detection:** UV 254 nm

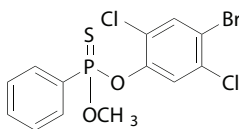
**Run Time:** 10 min

**k'**: 4.11

**$\alpha$** : 1.18

**Catalog #:** 1-780101-300,

1-780201-300



## Lercanidipine

**Column:** Whelk-O 1,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (75/25)

Hexane/IPA

**Flow Rate:** 1.5 mL/min

**Detection:** UV 220 nm

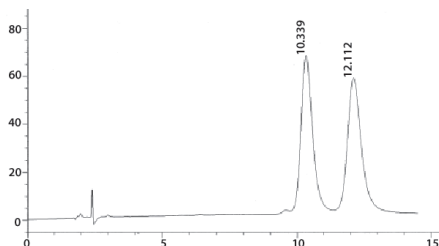
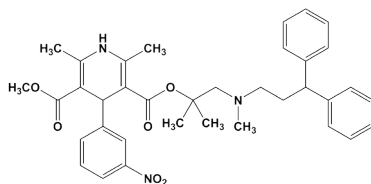
**k'**: 4.44

**$\alpha$** : 1.21

**CAS #:** 100427-26-7

**Catalog #:** 1-780101-300,

1-780201-300



## Lercanidipine

**Column:** (S,S) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (75/25)  
CO<sub>2</sub>/IPA + .5% DEA

**Flow Rate:** 4.0 mL/min

**Temperature:** 40 °C

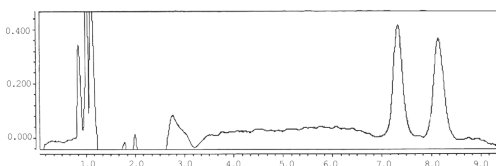
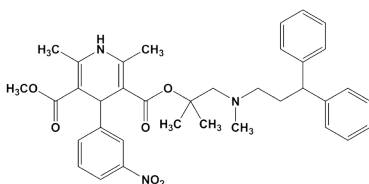
**Pressure:** 125 bar

**Detection:** UV 220 nm

**k'**: 8.77

**$\alpha$** : 1.13

**Catalog #:** 1-780101-300



## Leucine

**Column:** ChiroSil,

5  $\mu\text{m}$ , 15 cm x 4.6 mm

**Mobile Phase:** (45/55)  
CH<sub>3</sub>OH/H<sub>2</sub>O

+10 mM Acetic Acid

**Flow Rate:** 1.0 mL/min

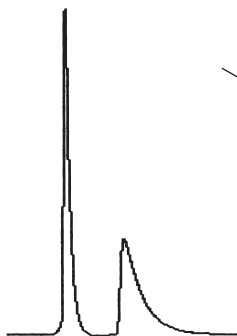
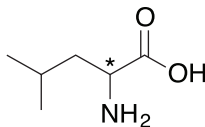
**Detection:** UV 210 nm

**Run Time:** 5.5 min

**k'**: 1.03

**$\alpha$** : 2.14

**Catalog #:** 1-799001-300,  
1-799101-300



## DL-Leucine

**Column:** ChiroSil ME RCA(+),

5  $\mu\text{m}$ , 15 cm x 4.6 mm

**Mobile Phase:** (30/70)

10mM Acetic Acid / MeOH

**Flow Rate:** 1.0 mL/min

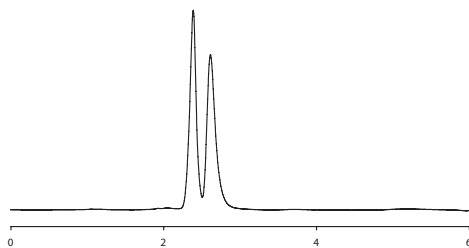
**Detection:** UV 210 nm

**Temperature:** 20 °C

**k'**: 0.14

**$\alpha$** : 1.79

**Catalog #:** 1-788001-300



## Leucolines

*N*-[(8-hydroxy-7-quinolinyl)(4-methylphenyl)methyl]-2-methylpropanamide

**Column:** (S,S) Whelk-O 1,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (70/30)

Hexane/Ethanol

**Flow Rate:** 1.5 mL/min

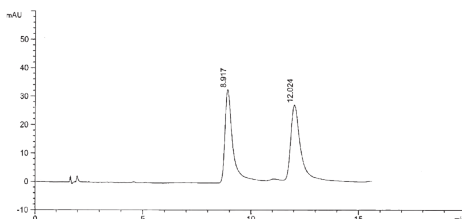
**Detection:** UV 220 nm

**k'**<sub>1</sub>: 5.15

**k'**<sub>2</sub>: 7.29

**$\alpha$** : 1.42

**Catalog #:** 1-780101-300



## Leucolines

*N*-[(2-chlorophenyl)(8-hydroxy-7-quinolinyl)methyl]-2-methylpropanamide

**Column:** (S,S) Whelk-O 1,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (70/30)

Hexane/Ethanol

**Flow Rate:** 1.5 mL/min

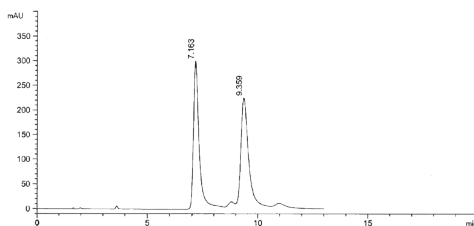
**Detection:** UV 220 nm

**k'**<sub>1</sub>: 3.94

**k'**<sub>2</sub>: 5.45

**$\alpha$** : 1.38

**Catalog #:** 1-780101-300



## Leucolines

*N'*-(2-hydroxy-5-methoxybenzylidene)-2-(8-quinolinylloxy)propanohydrazide

**Column:** RegisPack,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (65/35)

Hexane/Ethanol

**Flow Rate:** 1.5 mL/min

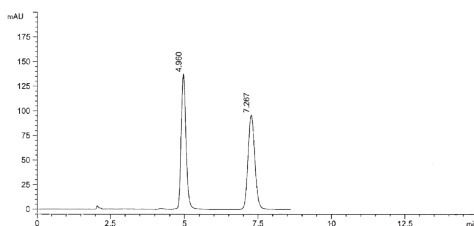
**Detection:** UV 220 nm

**k'**<sub>1</sub>: 1.61

**k'**<sub>2</sub>: 2.82

**$\alpha$** : 1.75

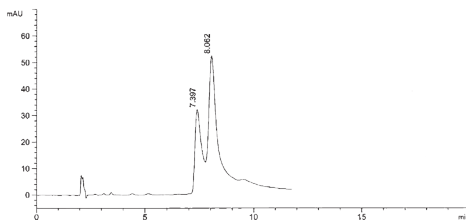
**Catalog #:** 1-783104-300



## Leucolines

*N*-[(3,4-dimethoxyphenyl)(8-hydroxy-7-quinolinyl)methyl]-2-methylpropanamide

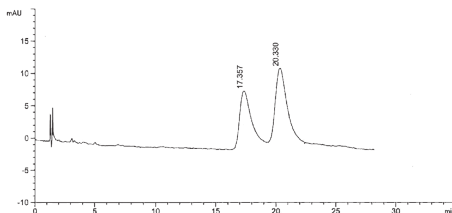
**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (80/20)  
Hexane/Ethanol  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
**k'**<sub>1</sub>: 2.89  
**k'**<sub>2</sub>: 3.84  
 **$\alpha$ :** 1.12  
**Catalog #:** 1-783104-300



## Leucolines

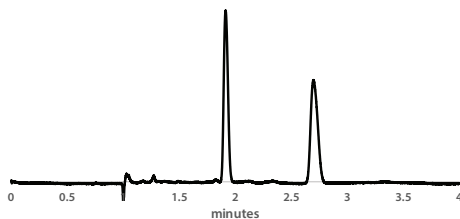
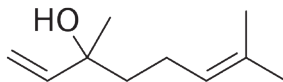
*N*-[(3,4-dimethoxyphenyl)(8-hydroxy-7-quinolinyl)methyl]-2-methylpropanamide

**Column:** (S,S) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (60/40)  
Hexane/Ethanol  
**Flow Rate:** 2.0 mL/min  
**Detection:** UV 220 nm  
**k'**<sub>1</sub>: 10.97  
**k'**<sub>2</sub>: 13.02  
 **$\alpha$ :** 1.19  
**Catalog #:** 1-780101-300



## Linalool

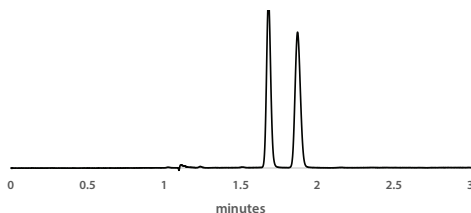
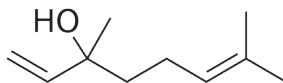
**Column:** Reflect C-Amylose A,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (80/20) CO<sub>2</sub>/Methanol  
**Flow Rate:** 3.0 mL/min  
**Temperature:** 40 °C  
**Pressure:** 150 bar  
**Detection:** UV 220 nm  
**k'**<sub>1</sub>: 0.91  
 **$\alpha$ :** 1.86  
**CAS #:** 78-70-6  
**Catalog #:** 1-580204-300





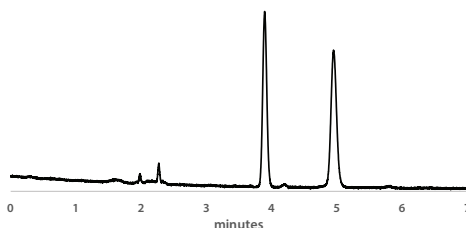
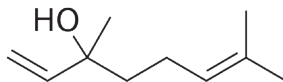
## Linalool

**Column:** Reflect I-Amylose A,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (95/5)  $\text{CO}_2$ /Methanol  
**Flow Rate:** 3.0 mL/min  
**Temperature:** 40  $^\circ\text{C}$   
**Pressure:** 150 bar  
**Detection:** UV 210 nm  
 **$k'$ :** 0.68  
 **$\alpha$ :** 1.28  
**CAS #:** 78-70-6  
**Catalog #:** 1-591204-300



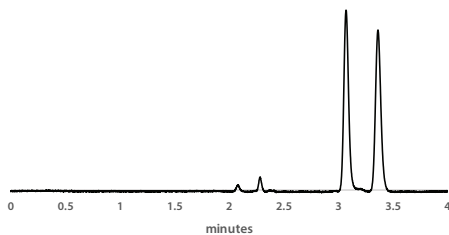
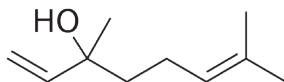
## Linalool

**Column:** Reflect C-Amylose A,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (95/5)  
Hexane/Ethanol  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
 **$k'$ :** 0.94  
 **$\alpha$ :** 1.56  
**CAS #:** 78-70-6  
**Catalog #:** 1-580204-300



## Linalool

**Column:** Reflect I-Amylose A,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (95/5)  
Hexane/Ethanol  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
 **$k'$ :** 0.53  
 **$\alpha$ :** 1.27  
**CAS #:** 78-70-6  
**Catalog #:** 1-591204-300



## Lofexidine

**Column:** Reflect C-Amylose A,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (95/5/0.1)  
Hexane/IPA/DEA

**Flow Rate:** 1.5 mL/min

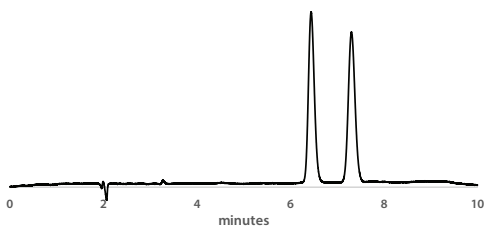
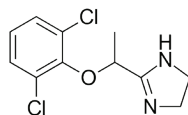
**Detection:** UV 254 nm

**k':** 2.21

**$\alpha$ :** 1.19

**CAS #:** 31036-80-3

**Catalog #:** 1-580204-300



## Lofexidine

**Column:** Reflect I-Amylose A,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (95/5/0.1)  
Hexane/IPA/DEA

**Flow Rate:** 1.5 mL/min

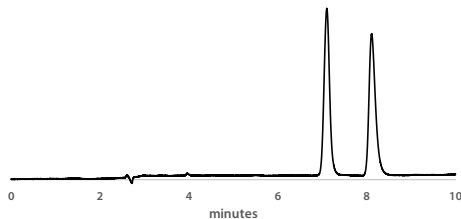
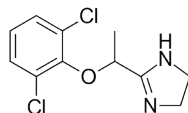
**Detection:** UV 254 nm

**k':** 2.54

**$\alpha$ :** 1.20

**CAS #:** 31036-80-3

**Catalog #:** 1-591204-300



## Lorazepam

**Column:** (R,R) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (70/30)  
Hexane/IPA

+ 0.1% Acetic Acid

**Flow Rate:** 1.5 mL/min

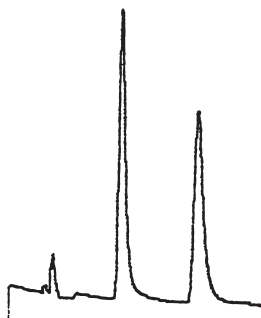
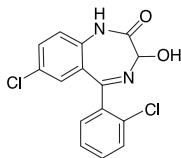
**Detection:** UV 254 nm

**Run Time:** 9.0 min

**k':** 2.08

**$\alpha$ :** 2.02

**Catalog #:** 1-780201-300



## Lorglumide

**Column:** (R,R) Whelk-O 1,

10  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (95/5)

Hexane/IPA

+ 0.1% Acetic Acid

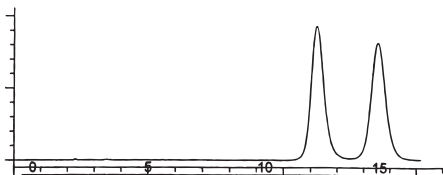
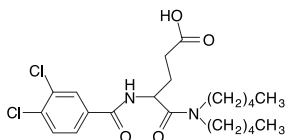
**Flow Rate:** 2.0 mL/min

**Detection:** UV 254 nm

**k'**: 5.22

**$\alpha$ :** 1.25

**Catalog #:** 1-786515-300



## Lorglumide

**Column:** (S,S) Whelk-O 1,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (80/20)

CO<sub>2</sub>/IPA + 0.5% Acetic Acid

**Flow Rate:** 4.0 mL/min

**Temperature:** 40 °C

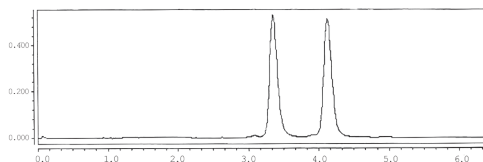
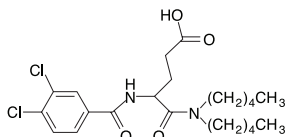
**Pressure:** 125 bar

**Detection:** UV 254 nm

**k'**: 3.47

**$\alpha$ :** 1.30

**Catalog #:** 1-780101-300



## Lorglumide

**Column:** Reflect I-Cellulose B,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (90/10/0.1)

Hexane/Ethanol/Acetic Acid

**Flow Rate:** 1.5 mL/min

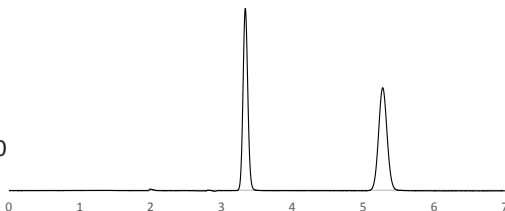
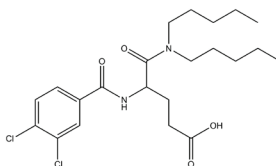
**Detection:** UV 254 nm

**k'**: 0.66

**$\alpha$ :** 2.46

**CAS #:** 1021868-76-7

**Catalog #:** 1-592204-300



## Lorglumide

**Column:** Reflect I-Cellulose C,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (90/10/0.1)  
Hexane/Ethanol/Acetic Acid

**Flow Rate:** 1.5 mL/min

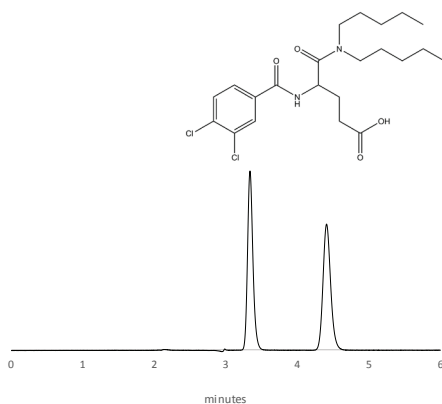
**Detection:** UV 254 nm

**k':** 0.66

**$\alpha$ :** 1.80

**CAS #:** 1021868-76-7

**Catalog #:** 1-593204-300



## Loxiglumide

**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (90/10)  
Hexane/IPA + 0.1% Acetic Acid

**Flow Rate:** 2.0 mL/min

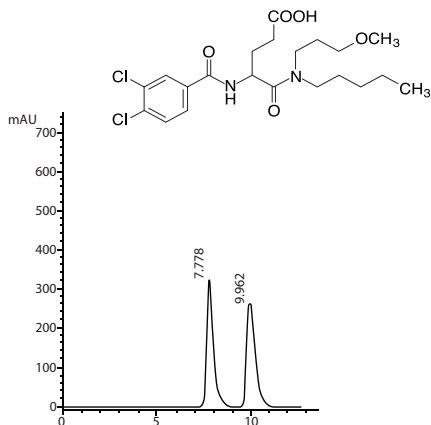
**Detection:** UV 254 nm

**k':** 4.56

**$\alpha$ :** 1.34

**CAS #:** 107097-80-3

**Catalog #:** 1-780101-300,  
1-780201-300



## Loxoprofen

**Column:** (R,R) Whelko-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (85/15)  
Hexane/Ethanol  
+ 0.01 M Ammonium Acetate

**Flow Rate:** 1.5 mL/min

**Detection:** UV 254 nm

**Run Time:** 15.0 min

**k':** 5.41

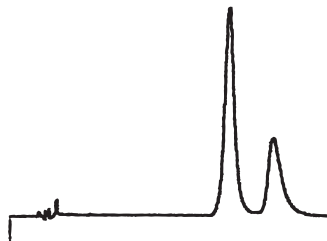
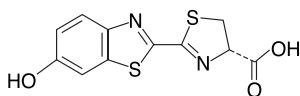
**$\alpha$ :** 1.30

**Catalog #:** 1-780201-300



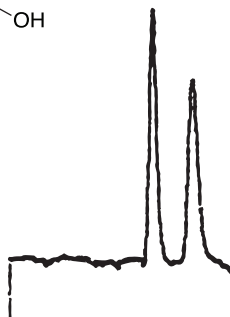
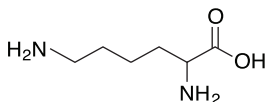
## Luciferin

**Column:** L-Leucine,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (60/40)  
Hexane/Ethanol + 0.04 mM  
Ammonium Acetate  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 15.5 min  
 **$k'$ :** 6.09  
 **$\alpha$ :** 1.25  
**Catalog #:** 1-731041-300



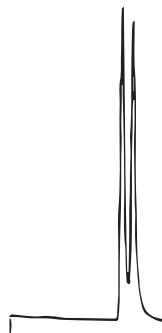
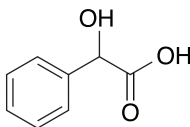
## Lysine

**Column:** ChiroSil,  
5  $\mu\text{m}$ , 15 cm x 4.6 mm  
**Mobile Phase:** (70/30)  
CH<sub>3</sub>OH/H<sub>2</sub>O  
+0.01% Phosphoric Acid  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 210 nm  
**Run Time:** 5.3 min  
 **$k'$ :** 1.44  
 **$\alpha$ :** 1.48  
**Catalog #:** 1-799001-300,  
1-799101-300



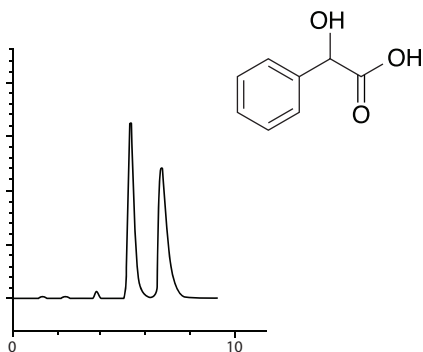
## Mandelic Acid

**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** 0.1% HOAc  
in water  
**Flow Rate:** 1.0 mL/min  
**Detection:** 254 nm  
**Run Time:** 13 min  
 **$k'$ :** 3.08  
 **$\alpha$ :** 1.13  
**Catalog #:** 1-780101-300,  
1-780201-300



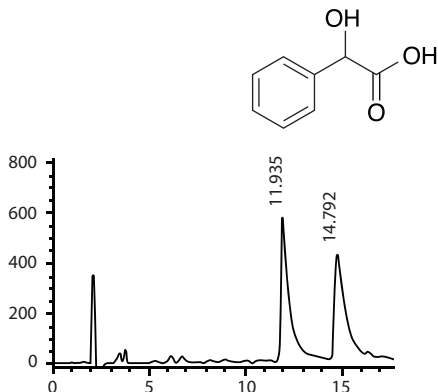
## Mandelic acid

**Column:** (R,R) Whelk-O 2,  
10  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (75/25)  
Hexane/Ethanol  
+ 25mM Ammonium Acetate  
**Flow Rate:** 2.0 mL/min  
**Detection:** UV 254 nm  
**k':** 2.80  
 **$\alpha$ :** 1.36  
**Catalog #:** 1-786315-300



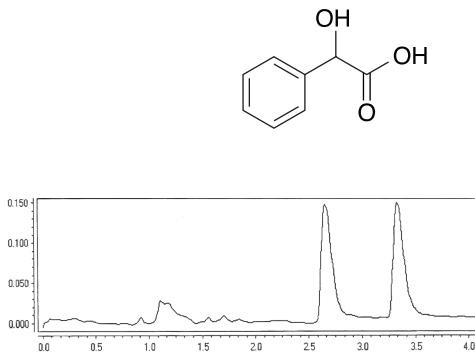
## Mandelic Acid

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (95/5)  
Hexane/IPA + 0.1% TFA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
**k':** 5.28  
 **$\alpha$ :** 1.28  
**CAS #:** 90-64-2  
**Catalog #:** 1-783104-300



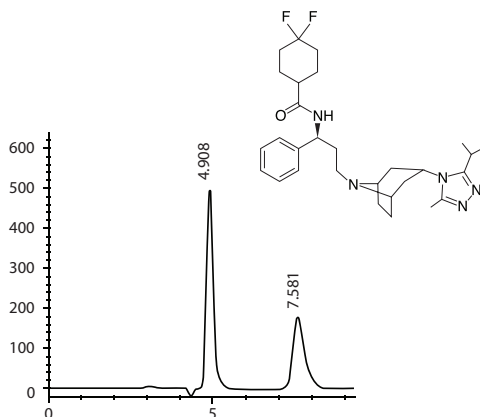
## Mandelic Acid

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (85/15)  
CO<sub>2</sub>/IPA + 0.5% TFA  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40 °C  
**Pressure:** 125 bar  
**Detection:** UV 254 nm  
**k':** 2.53  
 **$\alpha$ :** 1.36  
**Catalog #:** 1-783104-300



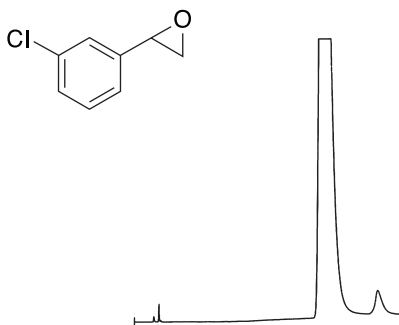
## Maraviroc

**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** 100%  
Ethanol + 0.1% DEA  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 220 nm  
 **$k'$ :** 0.69  
 **$\alpha$ :** 2.34  
**CAS #:** 376348-65-1  
**Catalog #:** 1-780101-300,  
1-780201-300



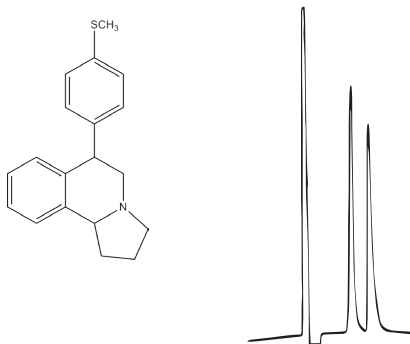
## m-Cl Styrene Oxide

**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** 100%  
Hexane  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 220 nm  
**Reference:** 30  
**Catalog #:** 1-780101-300,  
1-780201-300



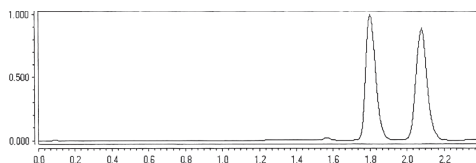
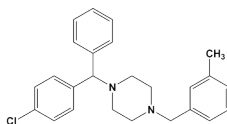
## McN 5652

**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (98/2)  
Hexane/IPA + 0.2%  
DEA  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
 **$k'$ :** 0.85  
 **$\alpha$ :** 1.36  
**Reference:** 32  
**Catalog #:** 1-780101-300,  
1-780201-300



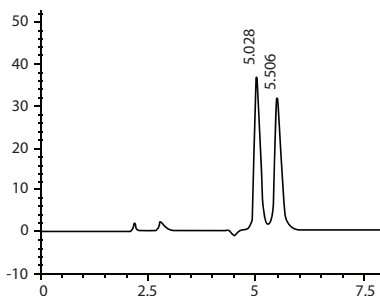
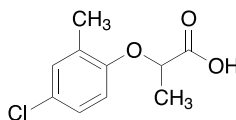
## Mecizine

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (70/30)  
CO<sub>2</sub>/Ethanol + 0.5% DEA  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40 °C  
**Pressure:** 125 bar  
**Detection:** UV 254 nm  
**k'**: 1.40  
 **$\alpha$ :** 1.27  
**Catalog #:** 1-783104-300



## Mecoprop

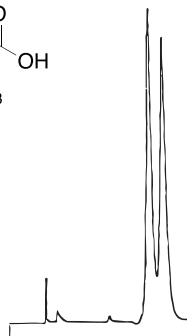
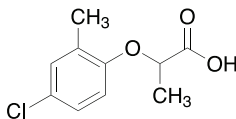
**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (99/1)  
Hexane/IPA + 0.1% Acetic Acid  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**k'**: 1.61  
 **$\alpha$ :** 1.15  
**CAS #:** 93-65-2  
**Catalog #:** 1-780101-300,  
1-780201-300



## Mecoprop

*Herbicide*

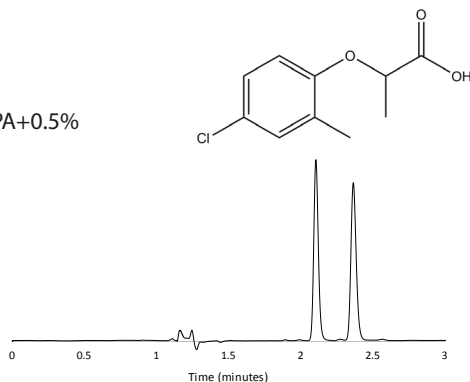
**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (99/1)  
Hexane/IPA + 0.1% HOAc  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 15 min  
**k'**: 6.54  
 **$\alpha$ :** 1.13  
**Catalog #:** 1-780101-300, 1-780201-300





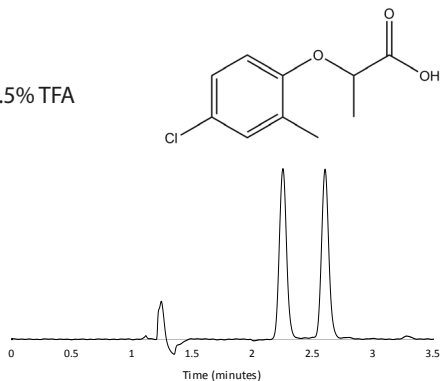
## Mecoprop

**Column:** Reflect I-Amylose A,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  $\text{CO}_2$ /IPA+0.5%  
TrifluoroAcetic Acid  
**Flow Rate:** 3.0 mL/min  
**Temperature:** 30  $^\circ\text{C}$   
**Pressure:** 150 bar  
**Detection:** UV 210 nm  
 **$k'$ :** 1.10  
 **$\alpha$ :** 1.23  
**CAS #:** 93-65-2  
**Catalog #:** 1-591204-300



## Mecoprop

**Column:** Reflect I-Cellulose C,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (95/5)  $\text{CO}_2$ /IPA+0.5% TFA  
**Flow Rate:** 3.0 mL/min  
**Temperature:** 30  $^\circ\text{C}$   
**Pressure:** 150 bar  
**Detection:** UV 210 nm  
 **$k'$ :** 1.25  
 **$\alpha$ :** 1.28  
**CAS #:** 93-65-2  
**Catalog #:** 1-593204-300



## Mecoprop

**Column:** Reflect C-Amylose A,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  $\text{CO}_2$ /Methanol  
+0.2% TrifluoroAcetic Acid  
**Flow Rate:** 3.0 mL/min  
**Temperature:** 30  $^\circ\text{C}$   
**Pressure:** 150 bar  
**Detection:** UV 210 nm  
 **$k'$ :** 1.73  
 **$\alpha$ :** 1.53  
**CAS #:** 93-65-2  
**Catalog #:** 1-580204-300



## Mecoprop

**Column:** Reflect I-Cellulose J,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (95/5)  $\text{CO}_2$ /  
IPA+0.5% TFA

**Flow Rate:** 3.0 mL/min

**Temperature:** 30  $^\circ\text{C}$

**Pressure:** 150 bar

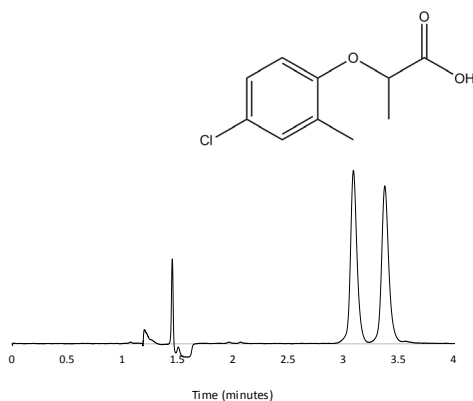
**Detection:** UV 210 nm

**$k'$ :** 2.09

**$\alpha$ :** 1.14

**CAS #:** 93-65-2

**Catalog #:** 1-594204-300



## Mecoprop

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (95/5)  
Hexane/IPA + 0.1% TFA

**Flow Rate:** 1.5 mL/min

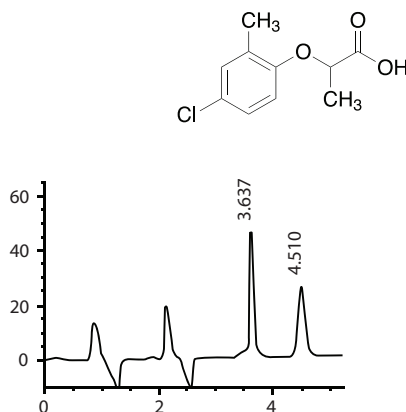
**Detection:** UV 254 nm

**$k'$ :** 0.91

**$\alpha$ :** 1.50

**CAS #:** 7085-19-0

**Catalog #:** 1-783104-300



## Mecoprop

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (90/10)  
 $\text{CO}_2$ /IPA + 0.5% TFA

**Flow Rate:** 4.0 mL/min

**Temperature:** 40  $^\circ\text{C}$

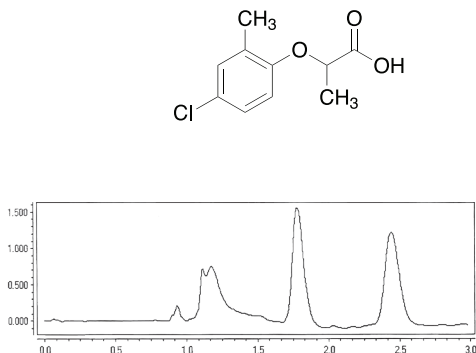
**Pressure:** 124 bar

**Detection:** UV 220 nm

**$k'$ :** 1.38

**$\alpha$ :** 1.64

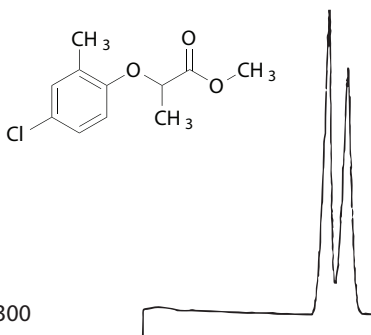
**Catalog #:** 1-783104-300



## Mecoprop Methyl

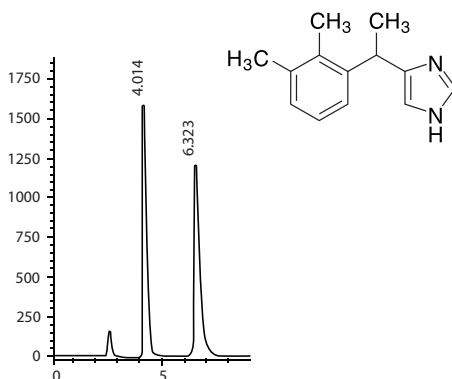
*Insecticide*

**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** 100% Hexane  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 15 min  
**k'**: 6.92  
 **$\alpha$ :** 1.15  
**Catalog #:** 1-780101-300, 1-780201-300



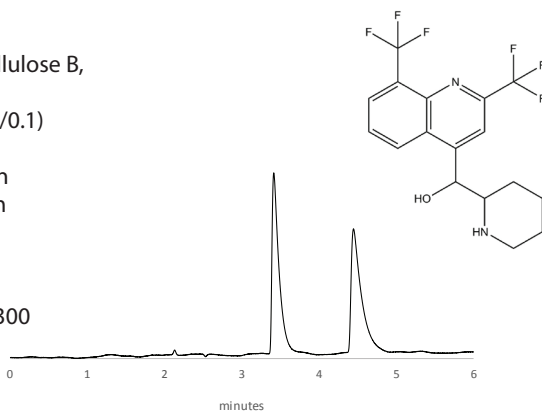
## Medetomidine

**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (75/25)  
Hexane/IPA + 0.1%DEA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
**k'**: 1.09  
 **$\alpha$ :** 2.09  
**CAS #:** 86347-14-0  
**Catalog #:** 1-780101-300,  
1-780201-300



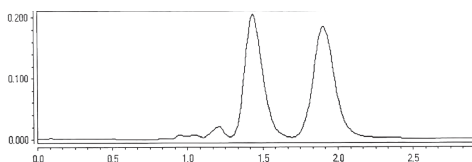
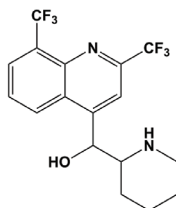
## Mefloquine

**Column:** Reflect C-Cellulose B,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10/0.1)  
Hexane/Ethanol/TFA  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 220 nm  
**k'**: 0.70  
 **$\alpha$ :** 1.73  
**CAS:** 53230-10-7  
**Catalog #:** 1-590204-300



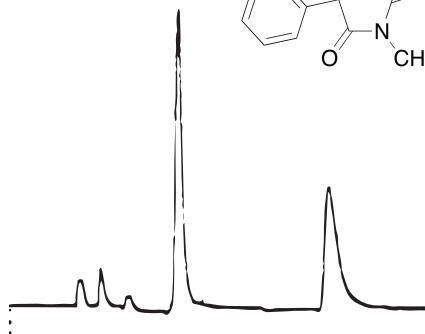
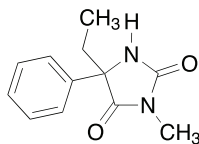
## Mefloquine

**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (85/15)  
CO<sub>2</sub>/Ethanol + 0.5% DEA  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40 °C  
**Pressure:** 124 bar  
**Detection:** UV 254 nm  
**k'**: 0.91  
 **$\alpha$ :** 1.68  
**Catalog #:** 1-784104-300



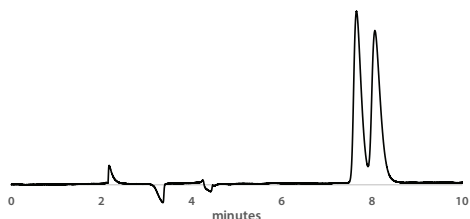
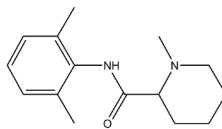
## Mephentoin

**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (80/20)  
Hexane/IPA  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 14 min  
**k'**: 1.57  
 **$\alpha$ :** 2.46  
**Reference:** 31  
**Catalog #:** 1-780101-300,  
1-780201-300



## Mepivacaine

**Column:** Reflect I-Amylose A,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (97/3/0.1)  
Hexane/IPA/DEA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**k'**: 2.82  
 **$\alpha$ :** 1.07  
**CAS:** 1722-62-9  
**Catalog #:** 1-591204-300



## Mepivacaine

**Column:** Reflect I-Cellulose C,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (85/15/0.1)

Hexane/Ethanol/DEA

**Flow Rate:** 1.5 mL/min

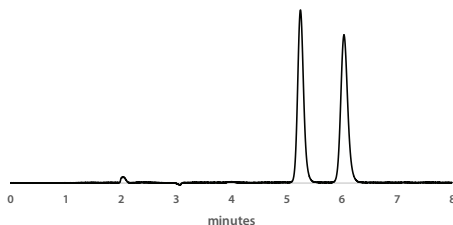
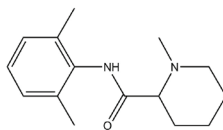
**Detection:** UV 254 nm

**k'**: 1.62

**$\alpha$ :** 1.24

**CAS:** 1722-62-9

**Catalog #:** 1-593204-300

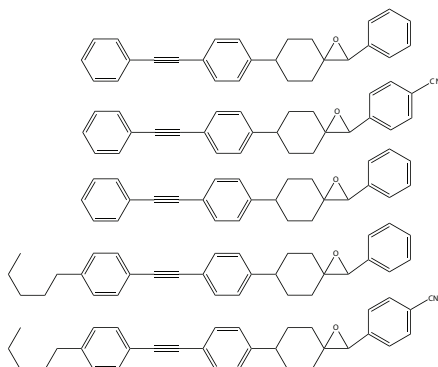


## Mesogens

*Mesogenepoxide derivatives*

Schuster's Candidate  
Photoresolvable

**Reference:** 13



*No chromatogram available.*

## Metalaxyl

**Column:** Whelk-O 1,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (60/40)

Hexane/IPA

**Flow Rate:** 1.5 mL/min

**Detection:** UV 220 nm

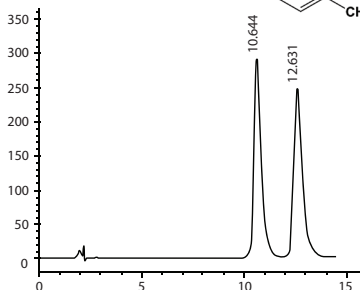
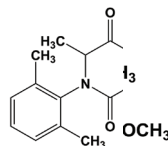
**k'**: 4.60

**$\alpha$ :** 1.23

**CAS #:** 57837-19-1

**Catalog #:** 1-780101-300,

1-780201-300



## Metalaxyl

Herbicide

**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (70/30)  
Hexane/IPA

**Flow Rate:** 1.0 mL/min

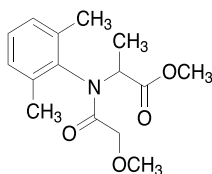
**Detection:** UV 254 nm

**Run Time:** 13 min

**k':** 6.54

**$\alpha$ :** 1.13

**Catalog #:** 1-780101-300, 1-780201-300



## Metalaxyl

**Column:** (S,S) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (75/25)  
 $\text{CO}_2$ /IPA

**Flow Rate:** 4.0 mL/min

**Temperature:** 40  $^\circ\text{C}$

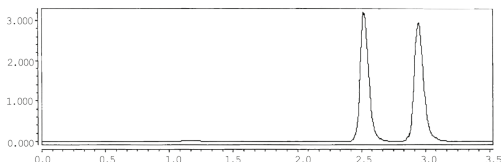
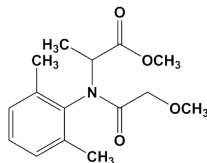
**Pressure:** 125 bar

**Detection:** UV 220 nm

**k':** 2.36

**$\alpha$ :** 1.25

**Catalog #:** 1-780101-300



## Metalaxyl

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (90/10)  
Hexane/Ethanol

**Flow Rate:** 1.5 mL/min

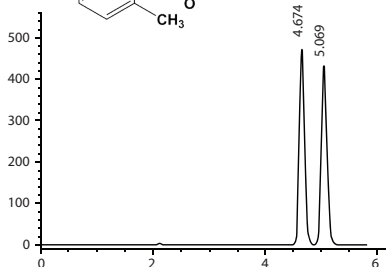
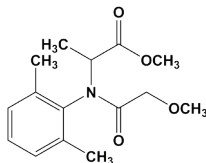
**Detection:** UV 220 nm

**k':** 1.46

**$\alpha$ :** 1.14

**CAS #:** 57837-19-1

**Catalog #:** 1-783104-300



## Metalaxyl

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (95/5)  
 $\text{CO}_2/\text{IPA}$

**Flow Rate:** 4.0 mL/min

**Temperature:** 40  $^\circ\text{C}$

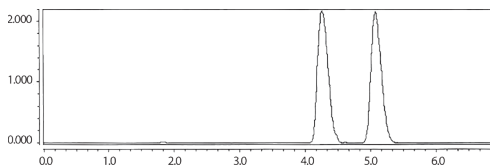
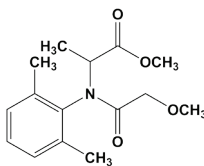
**Pressure:** 125 bar

**Detection:** UV 220 nm

**$k'$ :** 4.68

**$\alpha$ :** 1.23

**Catalog #:** 1-783104-300



## Metalaxyl

**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (75/25)  
Hexane/Ethanol

**Flow Rate:** 1.5 mL/min

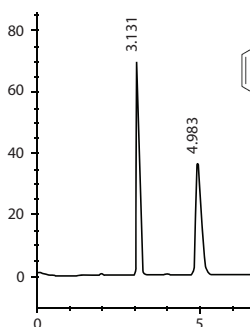
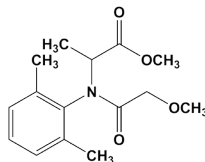
**Detection:** UV 254 nm

**$k'$ :** 0.64

**$\alpha$ :** 2.54

**CAS #:** 57837-19-1

**Catalog #:** 1-784104-300



## Metalaxyl

**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (95/5)  
 $\text{CO}_2/\text{IPA}$

**Flow Rate:** 4.0 mL/min

**Temperature:** 40  $^\circ\text{C}$

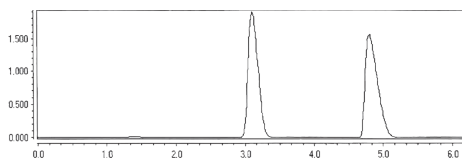
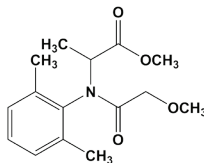
**Pressure:** 125 bar

**Detection:** UV 220 nm

**$k'$ :** 3.13

**$\alpha$ :** 1.72

**Catalog #:** 1-784104-300



## Metaproterenol

**Column:** Reflect C-Amylose A,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (85/15/0.1)

Hexane/Ethanol/DEA

**Flow Rate:** 1.5 mL/min

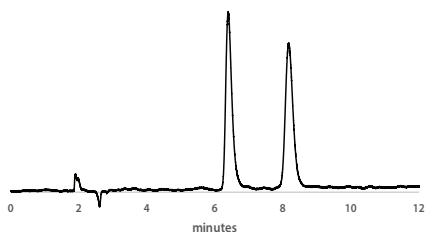
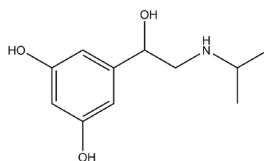
**Detection:** UV 220 nm

**k':** 2.19

**$\alpha$ :** 1.41

**CAS #:** 586-06-1

**Catalog #:** 1-580204-300



## Metaproterenol

**Column:** Reflect I-Amylose A,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (85/15/0.1)

Hexane/Ethanol/DEA

**Flow Rate:** 1.5 mL/min

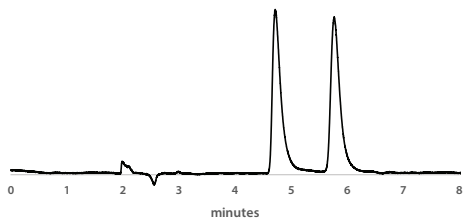
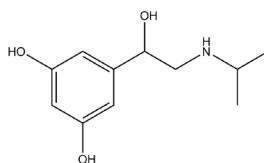
**Detection:** UV 220 nm

**k':** 1.35

**$\alpha$ :** 1.39

**CAS #:** 586-06-1

**Catalog #:** 1-591204-300



## Metaproterenol

**Column:** Reflect I-Cellulose C,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (85/15/0.1)

Hexane/Ethanol/DEA

**Flow Rate:** 1.5 mL/min

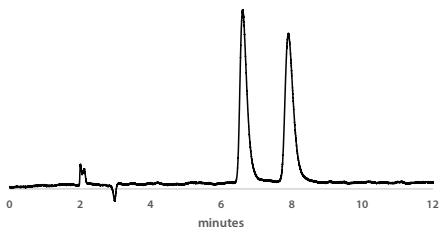
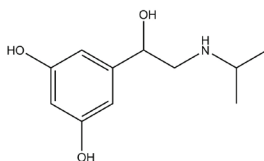
**Detection:** UV 220 nm

**k':** 2.30

**$\alpha$ :** 1.28

**CAS #:** 586-06-1

**Catalog #:** 1-593204-300





## Methadone Hydrochloride

**Column:** (S)  $\alpha$ -Burke 2,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (88/12)

Hexane/Ethanol

+ 0.1% TEA

**Flow Rate:** 1.5 mL/min

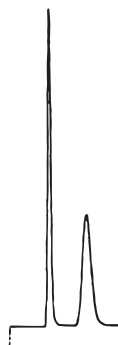
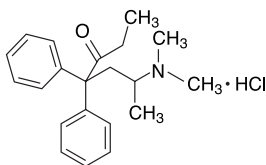
**Detection:** UV 254 nm

**Run Time:** 10.0 min

**k'**: 3.50

**$\alpha$ :** 1.34

**Catalog #:** 1-735037-300



## Methaqualone

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** 100%  
Methanol + 0.1% DEA

**Flow Rate:** 1.0 mL/min

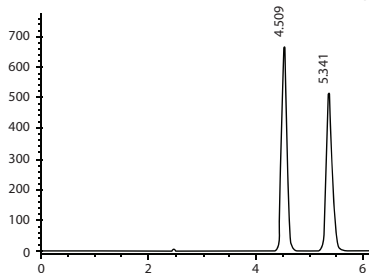
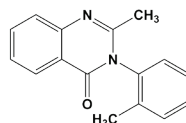
**Detection:** UV 254 nm

**k'**: 1.37

**$\alpha$ :** 1.32

**CAS #:** 72-44-6

**Catalog #:** 1-783104-300



## Methaqualone

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (70/30)  
 $\text{CO}_2/\text{CH}_3\text{OH}$  + 0.5% DEA

**Flow Rate:** 4.0 mL/min

**Temperature:** 40  $^\circ\text{C}$

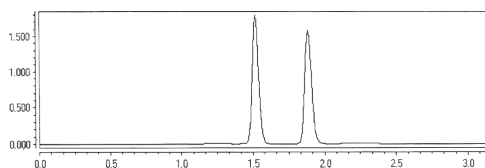
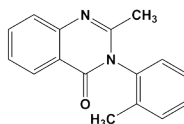
**Pressure:** 125 bar

**Detection:** UV 254 nm

**k'**: 1.02

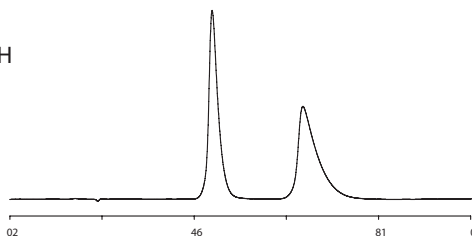
**$\alpha$ :** 1.48

**Catalog #:** 1-783104-300



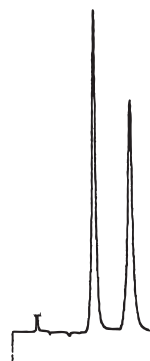
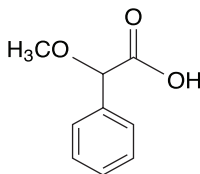
## DL-Methionine

**Column:** ChiroSil ME RCA(+),  
 5  $\mu\text{m}$ , 15 cm x 4.6 mm  
**Mobile Phase:** (30/70)  
 0.01% Phosphoric Acid/MeOH  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 210 nm  
**Temperature:** 20  $^{\circ}\text{C}$   
 **$k'$ :** 1.32  
 **$\alpha$ :** 1.79  
**Catalog #:** 1-788001-300



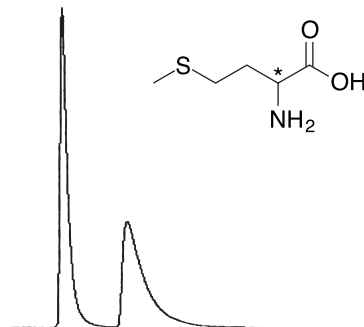
## $\alpha$ -Methoxyphenyl Acetic Acid

**Column:** (S,S) Whelk-O 1,  
 10  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
 Hexane/Ethanol  
 + 0.01 M Ammonium Acetate  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
**Run Time:** 10.0 min  
 **$k'$ :** 2.96  
 **$\alpha$ :** 1.61  
**Catalog #:** 1-786615-300



## Methionine

**Column:** ChiroSil,  
 5  $\mu\text{m}$ , 15 cm x 4.6 mm  
**Mobile Phase:** (45/55)  
 CH<sub>3</sub>OH/H<sub>2</sub>O  
 +10 mM Acetic Acid  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 210 nm  
**Run Time:** 7.5 min  
 **$k'$ :** 1.64  
 **$\alpha$ :** 2.04  
**Catalog #:** 1-799001-300,  
 1-799101-300



## Methoxyphenamine

**Column:** Reflect C-Cellulose B,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (98/2/0.1)

Hexane/Ethanol/DEA

**Flow Rate:** 1.5 mL/min

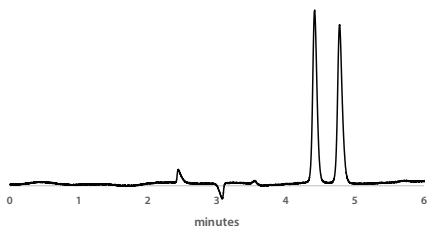
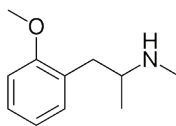
**Detection:** UV 254 nm

**k':** 1.21

**$\alpha$ :** 1.15

**CAS #:** 93-30-1

**Catalog #:** 1-590204-300



## 1-(4-Methoxyphenyl)-2-butanol

**Column:** (S,S) ULMO,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (98.5/1.5)

n-Heptane/1,2-Dimethoxyethane

**Flow Rate:** 1.0 mL/min

**Detection:** UV 254 nm

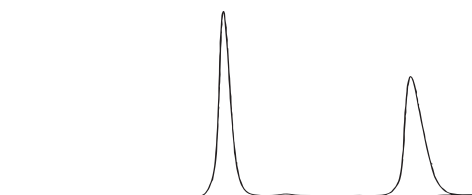
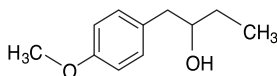
**Run Time:** 12.0 min

**k':** 2.04

**$\alpha$ :** 1.49

**Reference:** 60

**Catalog #:** 1-787100-300



## 1-(o-Methoxyphenyl) Ethanol

**Column:** (S,S) ULMO,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (98.5/1.5)

n-Heptane/1,2-Dimethoxyethane

**Flow Rate:** 1.5 mL/min

**Detection:** UV 254 nm

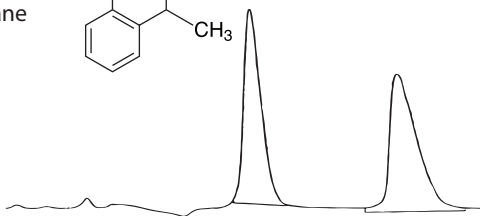
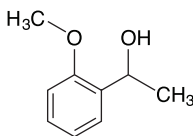
**Run Time:** 11.0 min

**k':** 3.27

**$\alpha$ :** 1.29

**Reference:** 60

**Catalog #:** 1-787100-300



## 2-Methoxyphenyl Phenyl Carbinol

**Column:** (S,S) ULMO,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (99/1)

Heptane/IPA

**Flow Rate:** 1.0 mL/min

**Detection:** UV 215 nm

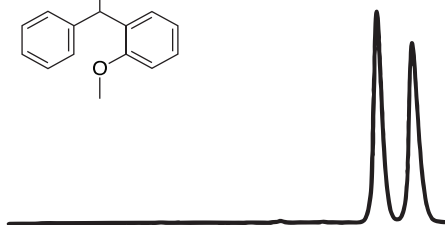
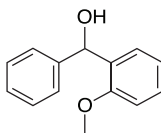
**Run Time:** 12.0 min

**k':** 2.92

**$\alpha$ :** 1.13

**Reference:** 43

**Catalog #:** 1-787100-300



## 1-(4-Methoxyphenyl)-2-propanol

**Column:** (S,S) ULMO,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (98.5/1.5)

n-Heptane/1,2-Dimethoxyethane

**Flow Rate:** 1.0 mL/min

**Detection:** UV 254 nm

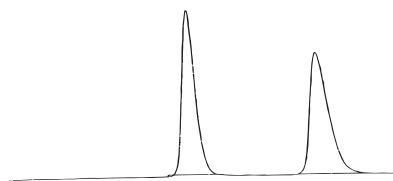
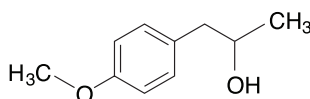
**Run Time:** 17.5 min

**k':** 5.33

**$\alpha$ :** 1.28

**Reference:** 55

**Catalog #:** 1-787100-300



## 2-Methyl-1-Indanone

**Column:** Whelk-O 1,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (99/1)

Hexane/IPA

**Flow Rate:** 1.0 mL/min

**Detection:** UV 254 nm

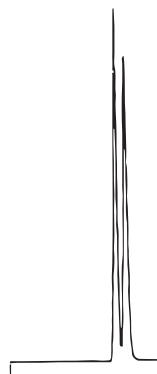
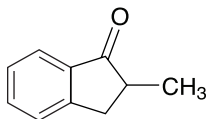
**Run Time:** 15 min

**k':** 4.00

**$\alpha$ :** 1.12

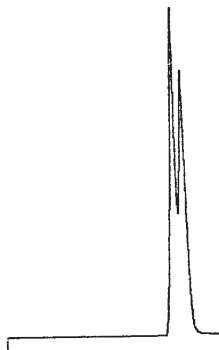
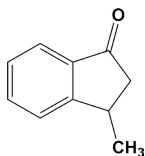
**Catalog #:** 1-780101-300,

1-780201-300



### 3-Methyl-1-Indanone

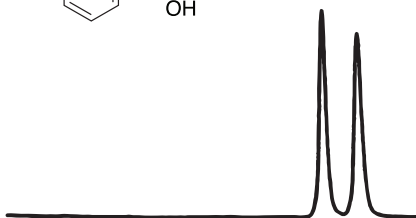
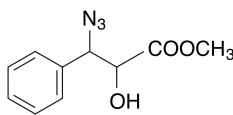
**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (99/1)  
Hexane/IPA  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**k':** 6.11  
 **$\alpha$ :** 1.18  
**Run Time:** 20 min  
**Catalog #:** 1-780101-300,  
1-780201-300



### Methyl 3-phenyl-3-azido-2-hydroxypropanoate

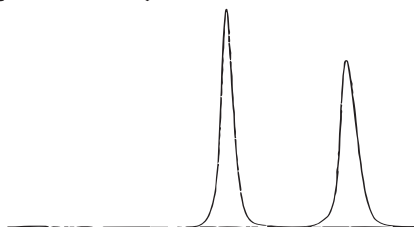
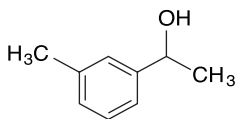
*Erythro*-diastereomer

**Column:** (S,S) ULMO,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (97/3)  
Heptane/Glyme  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 215 nm  
**Run Time:** 10.5 min  
**k':** 2.34  
 **$\alpha$ :** 1.16  
**Reference:** 43  
**Catalog #:** 1-787100-300



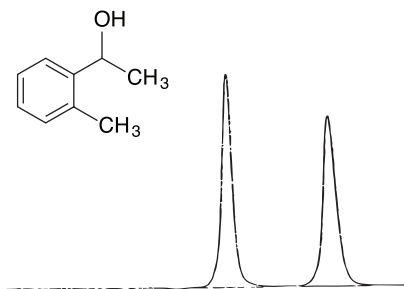
### 1-(*m*-Methylphenyl) Ethanol

**Column:** (S,S) ULMO,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (98.5/1.5)  
n-Heptane/1,2-Dimethoxyethane  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 10.5 min  
**k':** 1.94  
 **$\alpha$ :** 1.26  
**Reference:** 55  
**Catalog #:** 1-787100-300



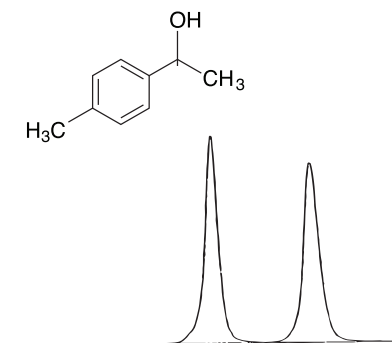
## 1-(*o*-Methylphenyl) Ethanol

**Column:** (S,S) ULMO,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (98.5/1.5)  
n-Heptane/1,2-Dimethoxyethane  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 10.5 min  
**K'**: 1.88  
 **$\alpha$ :** 1.29  
**Reference:** 55  
**Catalog #:** 1-787100-300



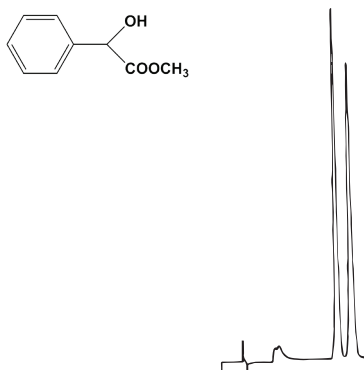
## 1-(*p*-Methylphenyl) Ethanol

**Column:** (S,S) ULMO,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (98.5/1.5)  
n-Heptane/1,2-Dimethoxyethane  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 10.5 min  
**K'**: 2.06  
 **$\alpha$ :** 1.21  
**Reference:** 55  
**Catalog #:** 1-787100-300



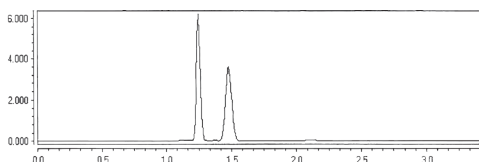
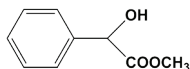
## Methyl Mandelate

**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (73/27)  
H<sub>2</sub>O/CH<sub>3</sub>CN + 0.1% HOAc  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 20 min  
**K'**: 5.27  
 **$\alpha$ :** 1.15  
**Catalog #:** 1-780101-300,  
1-780201-300



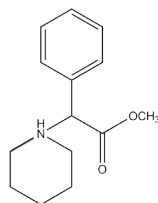
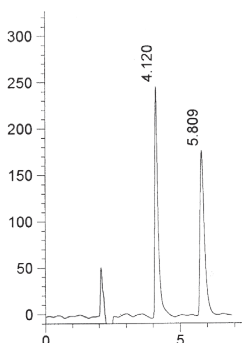
## Methyl Mandelate

**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
CO<sub>2</sub>/Ethanol  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40 °C  
**Pressure:** 125 bar  
**Detection:** UV 220 nm  
**k'**: 0.66  
 **$\alpha$ :** 1.47  
**Catalog #:** 1-784104-300



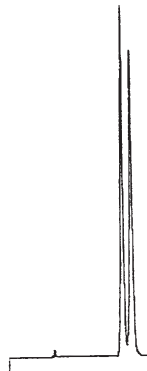
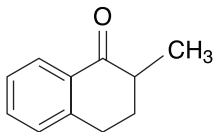
## Methylphenidate

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
Hexane/IPA + 0.1% TFA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
**k'**: 1.17  
 **$\alpha$ :** 1.76  
**Catalog #:** 1-783104-300



## 2-Methyl-1-Tetralone

**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (99/1)  
Hexane/IPA  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 12 min  
**k'**: 2.76  
 **$\alpha$ :** 1.11  
**Catalog #:** 1-780101-300,  
1-780201-300



## Metolachlor

Herbicide

**Column:** Whelk-O 1,  
5  $\mu$ m, 25 cm x 4.6 mm

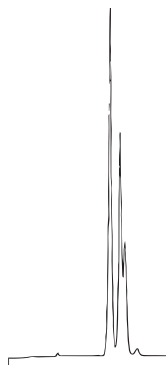
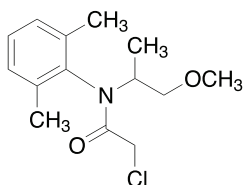
**Mobile Phase:** (98/2)  
Hexane/IPA

**Flow Rate:** 1.0 mL/min

**Detection:** UV 254 nm

**Run Time:** 25 min

**Catalog #:** 1-780101-300,  
1-780201-300



## Metolazone

**Column:** (S,S) Whelk-O 1,  
5  $\mu$ m, 25 cm x 4.6 mm

**Mobile Phase:** 100%  
Ethanol

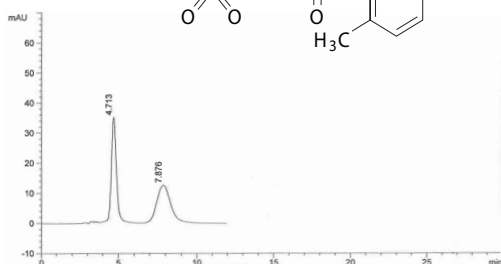
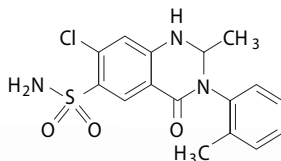
**Flow Rate:** 1.0 mL/min

**Detection:** UV 254 nm

**k':** 1.44

**$\alpha$ :** 2.14

**Catalog #:** 1-780101-300



## Metolazone

**Column:** (R,R) Whelk-O 1,  
5  $\mu$ m, 25 cm x 4.6 mm

**Mobile Phase:** (55/45)  
Hexane/Ethanol

**Flow Rate:** 1.5 mL/min

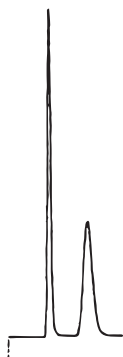
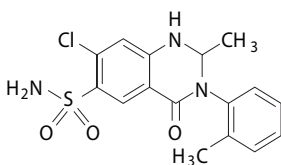
**Detection:** UV 254 nm

**Run Time:** 10.0 min

**k':** 1.93

**$\alpha$ :** 2.43

**Catalog #:** 1-780201-300





## Metolazone

**Column:** (S,S) Whelk-O 1,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (55/45)

$\text{CO}_2/\text{CH}_3\text{OH}$

**Flow Rate:** 4.0 mL/min

**Temperature:** 40  $^\circ\text{C}$

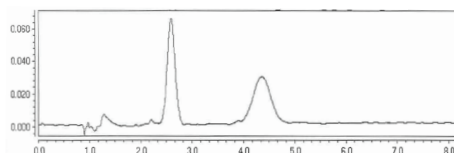
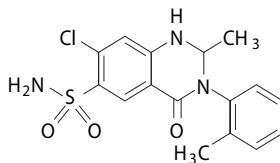
**Pressure:** 125 bar

**Detection:** UV 254 nm

**$k'$ :** 2.47

**$\alpha$ :** 1.95

**Catalog #:** 1-780101-300



## Metoprolol

**Column:**  $\alpha$ -Burke 2,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (85/10/5)

$\text{CH}_2\text{Cl}_2/\text{EtOH}/\text{MeOH}$

10 mM  $\text{NH}_4\text{OAc}$

**Flow Rate:** 1.0 mL/min

**Detection:** UV 254 nm

**Run Time:** 13 min

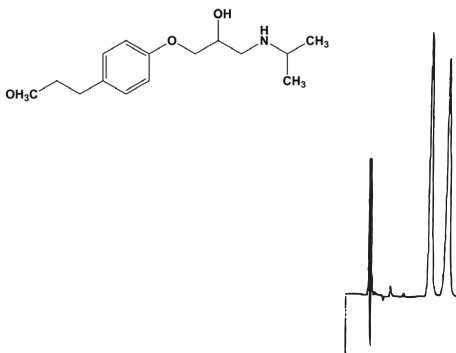
**$k'$ :** 2.66

**$\alpha$ :** 1.28

**Reference:** 30

**Catalog #:** 1-735035-300,

1-735037-300



## Metoprolol

**Column:** RegisPack,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** 100%

Methanol + 0.1% DEA

**Flow Rate:** 1.0 mL/min

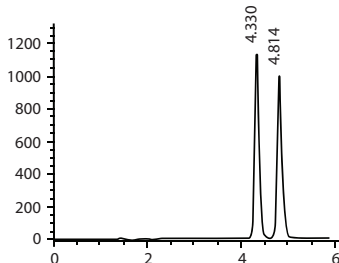
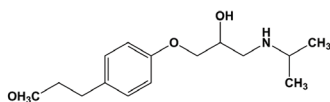
**Detection:** UV 220 nm

**$k'$ :** 0.49

**$\alpha$ :** 1.34

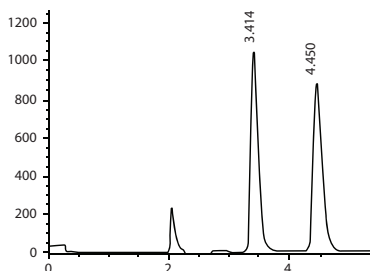
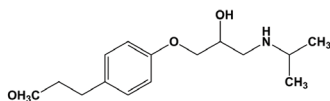
**CAS #:** 37350-58-6

**Catalog #:** 1-783104-300



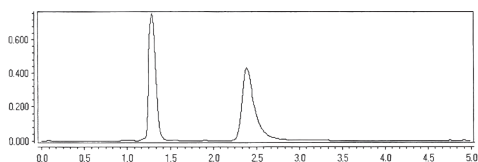
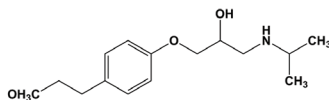
## Metoprolol

**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
Hexane/Ethanol + 0.1% DEA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
**k'**: 0.80  
 **$\alpha$** : 1.68  
**CAS #:** 37350-58-6  
**Catalog #:** 1-784104-300



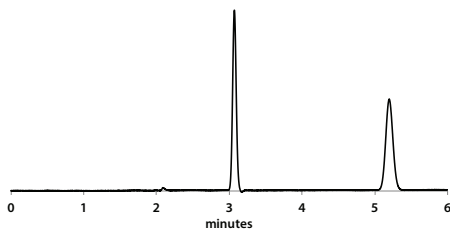
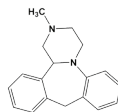
## Metoprolol

**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (80/20)  
 $\text{CO}_2$ /Ethanol + 0.5% TEA  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40  $^\circ\text{C}$   
**Pressure:** 125 bar  
**Detection:** UV 280 nm  
**k'**: 0.73  
 **$\alpha$** : 3.00  
**Catalog #:** 1-784104-300



## Mianserin

**Column:** Reflect C-Amylose A,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (95/5/0.1)  
Hexane/Ethanol/DEA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**k'**: 0.53  
 **$\alpha$** : 2.99  
**CAS#:** 24219-97-4  
**Catalog #:** 1-580204-300



## Mianserin

**Column:** Reflect I-Amylose A,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (95/5/0.1)

Hexane/Ethanol/DEA

**Flow Rate:** 1.5 mL/min

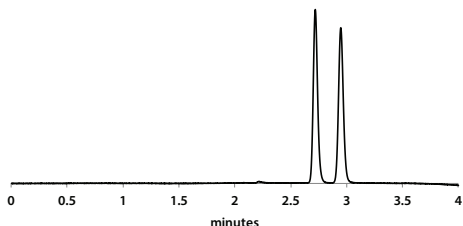
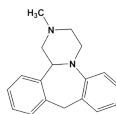
**Detection:** UV 254 nm

**$k'$ :** 0.36

**$\alpha$ :** 1.32

**CAS#:** 24219-97-4

**Catalog #:** 1-591204-300



## Mianserin

**Column:** RegisPack,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (70/30)

$\text{CO}_2/\text{CH}_3\text{OH}$  + 0.5% DEA

**Flow Rate:** 4.0 mL/min

**Temperature:** 40  $^\circ\text{C}$

**Pressure:** 125 bar

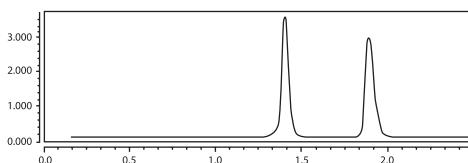
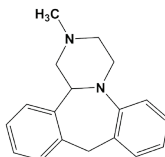
**Detection:** UV 220 nm

**$k'$ :** 0.86

**$\alpha$ :** 1.75

**CAS #:** 24219-97-4

**Catalog #:** 1-783104-300



## Midodrine

**Column:** RegisPack,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (80/20)

Hexane/Ethanol + 0.1% DEA

**Flow Rate:** 1.5 mL/min

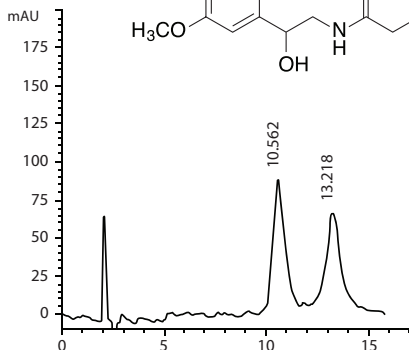
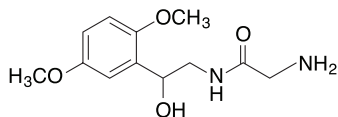
**Detection:** UV 220 nm

**$k'$ :** 4.57

**$\alpha$ :** 1.30

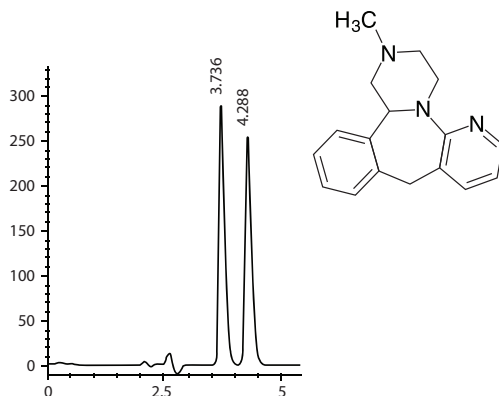
**CAS #:** 42794-76-3

**Catalog #:** 1-783104-300



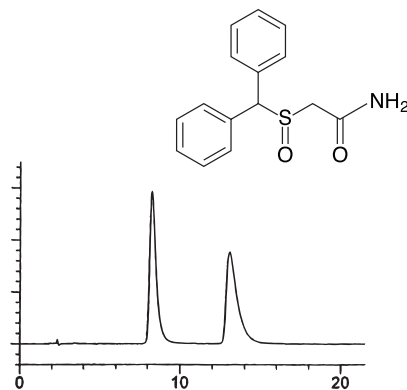
## Mirtazapine

**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
Hexane/IPA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**k'**: 0.94  
 **$\alpha$ :** 1.30  
**CAS #:** 85650-52-8  
**Catalog #:** 1-784104-300



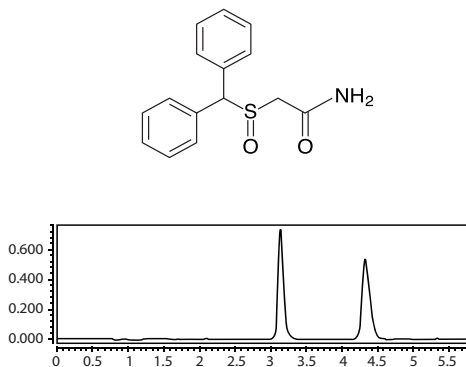
## Modafinil

**Column:** (S,S) Whelk-O 1,  
10  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (65/35)  
Hexane/IPA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**k'**: 3.57  
 **$\alpha$ :** 1.75  
**Catalog #:** 1-786615-300



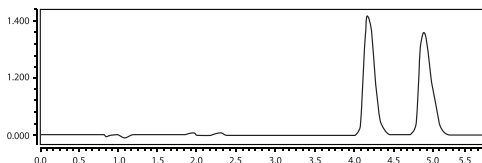
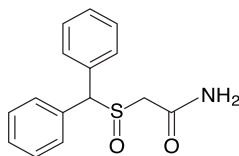
## Modafinil

**Column:** (S,S) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (70/30)  
CO<sub>2</sub>/CH<sub>3</sub>OH  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40 °C  
**Pressure:** 125 bar  
**Detection:** UV 254 nm  
**k'**: 3.18  
 **$\alpha$ :** 1.50  
**Catalog #:** 1-780101-300



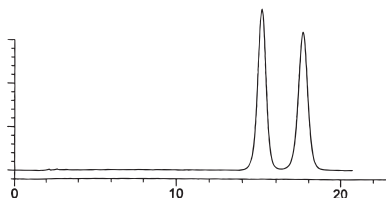
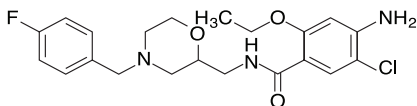
## Modafinil

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (75/25)  
CO<sub>2</sub>/Ethanol  
**Temperature:** 40 °C  
**Pressure:** 125 bar  
**Flow Rate:** 4.0 mL/min  
**Detection:** UV 254 nm  
**k'**: 4.72  
 **$\alpha$ :** 1.21  
**Catalog #:** 1-783104-300



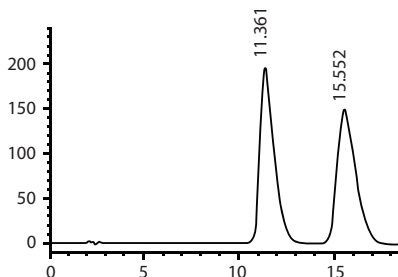
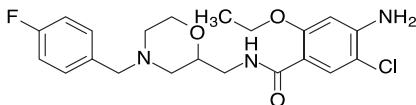
## Mosapride

**Column:** (R,R) Whelk-O 1,  
10  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (66/28/6)  
Hexane/CH<sub>2</sub>Cl<sub>2</sub>/Ethanol  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**k'**: 7.37  
 **$\alpha$ :** 1.19  
**Catalog #:** 1-786515-300



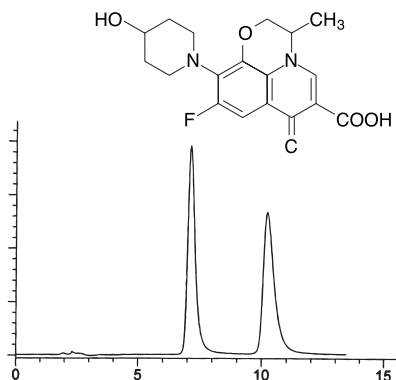
## Mosapride

**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (80/20)  
Hexane/IPA + 0.1% DEA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**k'**: 4.88  
 **$\alpha$ :** 1.45  
**CAS #:** 112885-41-3  
**Catalog #:** 1-784104-300



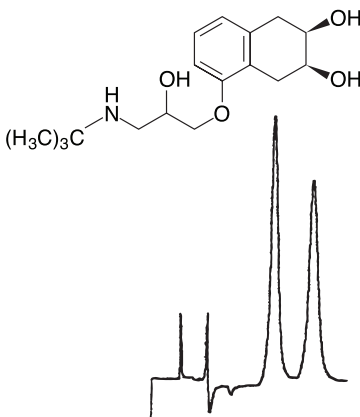
## Nadifloxacin

**Column:** (S,S)-Whelk-O 1,  
10  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (45/45/10)  
 $\text{CH}_2\text{Cl}_2$ /Hexane/IPA  
+ 10 mM Ammonium Acetate  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**k'**<sub>1</sub>: 2.95  
 **$\alpha$** : 1.58  
**Catalog #:** 1-786615-300



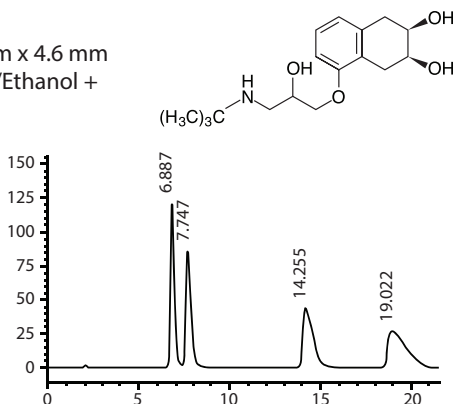
## Nadolol

**Column:** (S,S) Whelk-O 1,  
10  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (78/22)  
Hexane/Ethanol  
+ 0.01 M Ammonium Acetate  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 270 nm  
**Run Time:** 9.5 min  
**k'**<sub>1</sub>: 3.05  
 **$\alpha$** : 1.43  
**Catalog #:** 1-786615-300



## Nadolol

**Column:** RegisPack, 5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (85/15) Hexane/Ethanol +  
0.1% DEA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 270 nm  
**k'**<sub>1</sub>: 2.62  
**k'**<sub>2</sub>: 3.08  
 **$\alpha$** : 1.17  
**k'**<sub>3</sub>: 6.50  
**k'**<sub>4</sub>: 9.01  
 **$\alpha$** <sub>2</sub>: 1.39  
**CAS #:** 44200-33-9  
**Catalog #:** 1-783104-300



## DL-Nal

**Column:** ChiroSil ME RCA(+),

5  $\mu\text{m}$ , 15 cm x 4.6 mm

**Mobile Phase:** (50/50)

5mM HClO<sub>4</sub> Acid/MeOH

**Flow Rate:** 0.5 mL/min

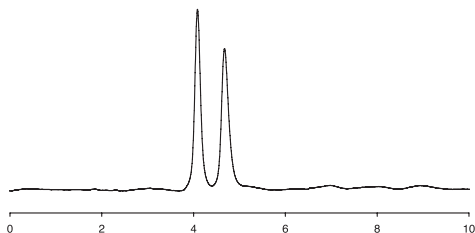
**Detection:** UV 210 nm

**Temperature:** 10 °C

**k'**: 0.08

**$\alpha$** : 2.99

**Catalog #:** 1-788001-300



## $\alpha$ -Naphthyl Methyl Carbinol

**Column:** (R,R) ULMO,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (99/1)

Hexane/IPA

**Flow Rate:** 1.0 mL/min

**Detection:** UV 254 nm

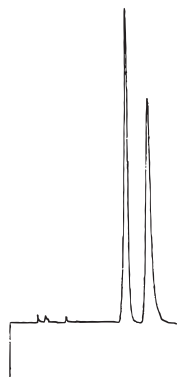
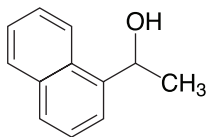
**Run Time:** 14.5 min

**k'**: 3.49

**$\alpha$** : 1.25

**Reference:** 46

**Catalog #:** 1-787200-300



## 1-Naphthylureaphenethylamine

**Column:** D-Phenyglycine,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (70/30)

Hexane/EtOH

**Flow Rate:** 1.0 mL/min

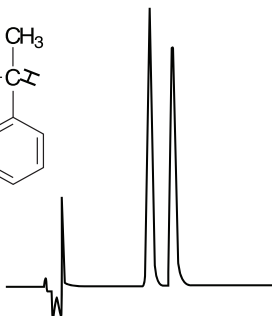
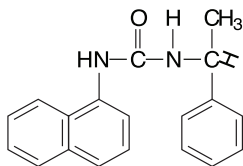
**Detection:** UV 254 nm

**Run Time:** 10 min

**k'**: 2.37

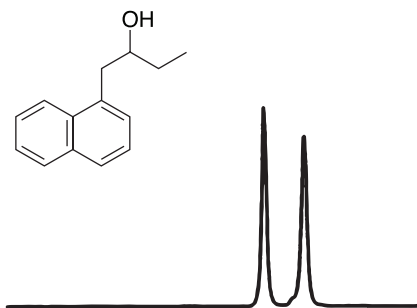
**$\alpha$** : 1.22

**Catalog #:** 1-731021-300



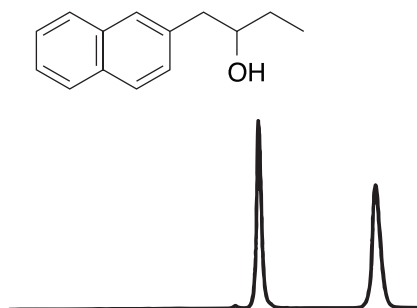
## 1-Naphthyl-2-butanol

**Column:** (S,S) ULMO,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (95/5)  
Heptane/IPA  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 215 nm  
**Run Time:** 6 min  
**k'**: 0.80  
 **$\alpha$ :** 1.35  
**Reference:** 43  
**Catalog #:** 1-787100-300



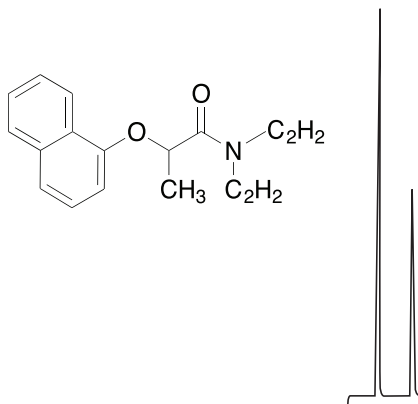
## 2-Naphthyl-2-butanol

**Column:** (S,S) ULMO,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (95/5)  
Heptane/IPA  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 215 nm  
**Run Time:** 8 min  
**k'**: 1.00  
 **$\alpha$ :** 1.93  
**Reference:** 43  
**Catalog #:** 1-787100-300



## Napropamide

**Column:** Whellk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (50/50)  
Hexane/Isopropanol  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 15.0 min  
**k'**: 3.17  
 **$\alpha$ :** 3.00  
**Catalog #:** 1-780101-300,  
1-780201-300





## Napropamide

**Column:** (S,S) Whelk-O 1,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (60/40)

CO<sub>2</sub>/CH<sub>3</sub>OH

**Flow Rate:** 4.0 mL/min

**Temperature:** 40 °C

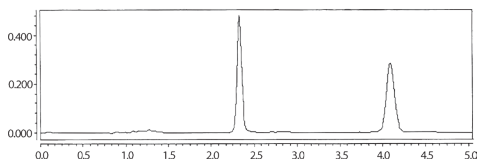
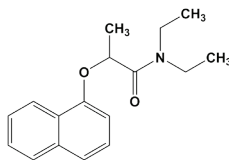
**Pressure:** 125 bar

**Detection:** UV 254 nm

**k'**: 2.10

**$\alpha$ :** 2.12

**Catalog #:** 1-780101-300



## Napropamide

**Column:** Reflect I-Cellulose B,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (90/10) CO<sub>2</sub>/

Methanol

**Flow Rate:** 3.0 mL/min

**Temperature:** 30 °C

**Pressure:** 150 bar

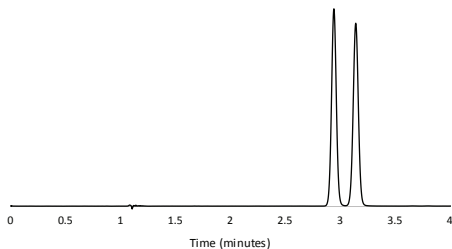
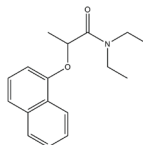
**Detection:** UV 210 nm

**k'**: 3.35

**$\alpha$ :** 1.57

**CAS #:** 15299-99-7

**Catalog #:** 1-592204-300



## Napropamide

**Column:** Reflect I-Cellulose C,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (90/10) CO<sub>2</sub>/IPA

**Flow Rate:** 3.0 mL/min

**Temperature:** 30 °C

**Pressure:** 150 bar

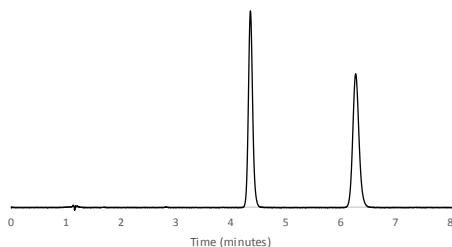
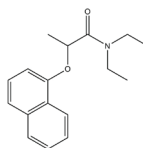
**Detection:** UV 210 nm

**k'**: 1.94

**$\alpha$ :** 1.12

**CAS #:** 15299-99-7

**Catalog #:** 1-593204-300



## Napropamide

**Column:** Reflect C-Cellulose B,

5  $\mu$ m, 25 cm x 4.6 mm

**Mobile Phase:** (90/10) CO<sub>2</sub>/  
Methanol

**Flow Rate:** 3.0 mL/min

**Temperature:** 30 °C

**Pressure:** 150 bar

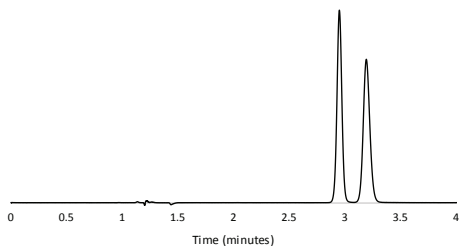
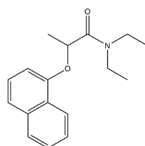
**Detection:** UV 210 nm

**k':** 1.94

**$\alpha$ :** 1.10

**CAS #:** 15299-99-7

**Catalog #:** 1-590204-300



## Naproxen

**Column:** (S,S) Whelk-O 1,

5  $\mu$ m, 25 cm x 4.6 mm

**Mobile Phase:** (50/50)

Hexane/Ethanol

+ 0.1% Acetic Acid

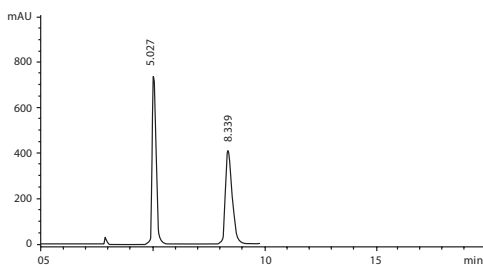
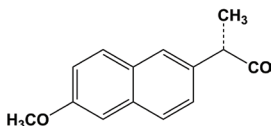
**Flow Rate:** 1.5 mL/min

**Detection:** UV 254 nm

**k':** 1.60

**$\alpha$ :** 2.07

**Catalog #:** 1-780101-300



## Naproxen

**Column:** (R,R) Whelk-O 1,

5  $\mu$ m, 25 cm x 4.6 mm

**Mobile Phase:** (60/40)

Hexane/IPA + 0.1% Acetic Acid

**Flow Rate:** 1.0 mL/min

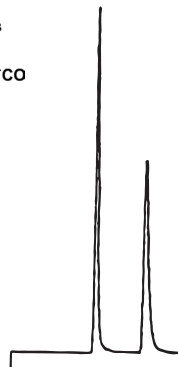
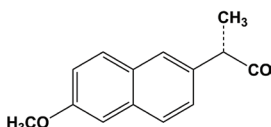
**Detection:** UV 254 nm

**Run Time:** 10.5 min

**k':** 1.40

**$\alpha$ :** 2.03

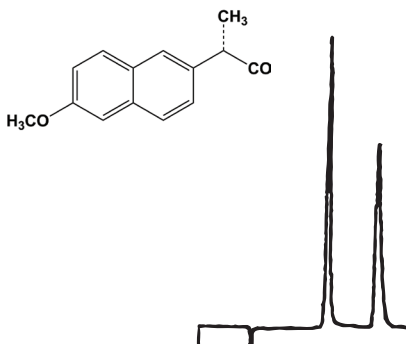
**Catalog #:** 1-780201-300



## Naproxen

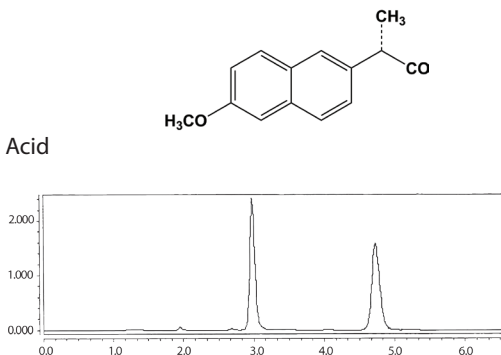
Reversed Phase

**Column:** (R,R) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (80/20)  
 $\text{CH}_3\text{OH}/\text{H}_2\text{O}$  + 0.1% Acetic Acid  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 10.0 min  
 **$k'$ :** 1.63  
 **$\alpha$ :** 1.64  
**Catalog #:** 1-780201-300



## Naproxen

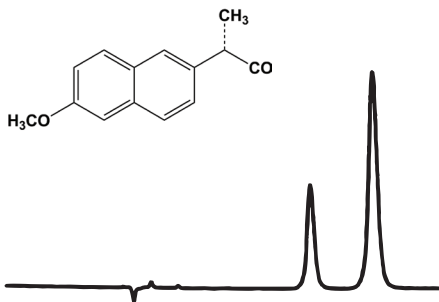
**Column:** (S,S) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (70/30)  
 $\text{CO}_2/\text{Ethanol}$  + 0.5% Acetic Acid  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40  $^\circ\text{C}$   
**Pressure:** 125 bar  
**Detection:** UV 254 nm  
 **$k'$ :** 2.97  
 **$\alpha$ :** 1.79  
**Catalog #:** 1-780101-300



## Naproxen

R:S=30:70

**Column:** (S,S) ULMO,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
Heptane/IPA + 0.1% TFA  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 230 nm  
**Run Time:** 8.5 min  
 **$k'$ :** 1.54  
 **$\alpha$ :** 1.34  
**Catalog #:** 1-787100-300



## Naproxen

**Column:** Reflect C-Amylose A,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (80/20/0.1)  
Hexane/Ethanol/Acetic Acid

**Flow Rate:** 1.5 mL/min

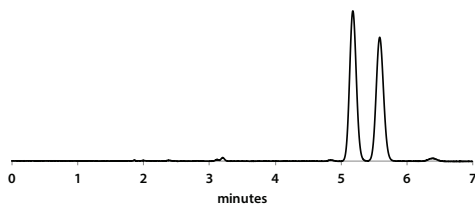
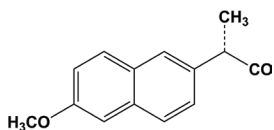
**Detection:** UV 254 nm

**k':** 1.59

**$\alpha$ :** 1.13

**CAS #:** 23981-80-8

**Catalog #:** 1-580204-300



## Naproxen

*Semi-prep on Analytical Column*

**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (80/20)  
Hexane/IPA + 0.5% HOAc

**Flow Rate:** 1.0 mL/min

**Detection:** UV 300 nm

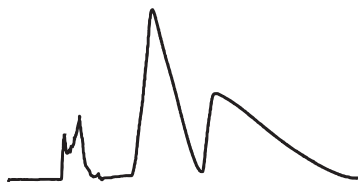
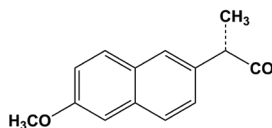
**Run Time:** 18 min

**Reference:** 6

**Sample Prep:** Inject 400  $\mu\text{l}$

@ 31.5 mg/ml = 12.6 mg

**Catalog #:** 1-780101-300, 1-780201-300



## Naproxen Diisopropyl Amide

**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (90/10)  
Hexane/EtOH

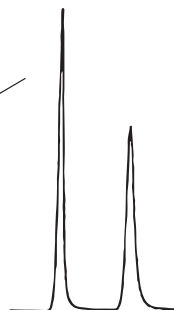
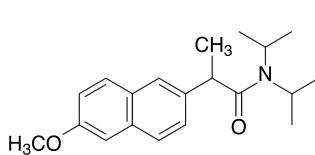
**Flow Rate:** 1.0 mL/min

**Detection:** UV 254 nm

**k':** 2.23

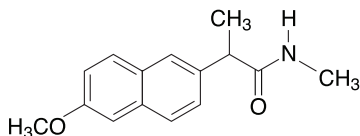
**$\alpha$ :** 1.53

**Catalog #:** 1-780101-300,  
1-780201-300



## Naproxen Methyl Amide

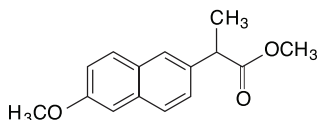
**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (80/20)  
Hexane/IPA + 1 g/L  $\text{NH}_4\text{OAc}$   
**Flow Rate:** 2.0 mL/min  
**Detection:** UV 254 nm  
 **$k'$ :** 18.73  
 **$\alpha$ :** 1.41  
**Reference:** 14  
**Catalog #:** 1-780101-300,  
1-780201-300



*No chromatogram available.*

## Naproxen Methyl Ester

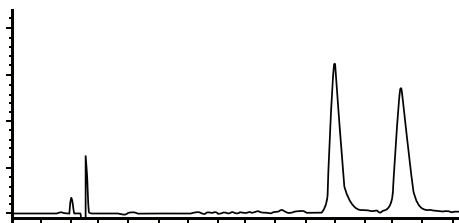
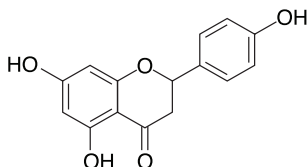
**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (80/20)  
Hexane/IPA + 1 g/L  $\text{NH}_4\text{OAc}$   
**Flow Rate:** 2.0 mL/min  
**Detection:** UV 254 nm  
 **$k'$ :** 3.42  
 **$\alpha$ :** 1.42  
**Reference:** 14  
**Catalog #:** 1-780101-300,  
1-780201-300



*No chromatogram available.*

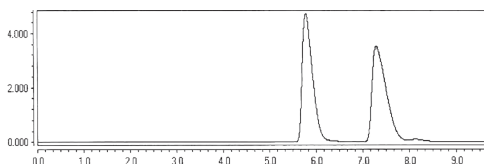
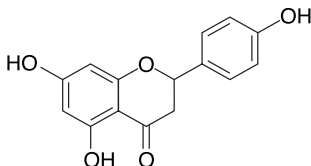
## Naringenin

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (85/15)  
Hexane/IPA + 0.1% Acetic Acid  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
 **$k'$ :** 2.79  
 **$\alpha$ :** 1.28  
**CAS #:** 480-41-1  
**Catalog #:** 1-783104-300



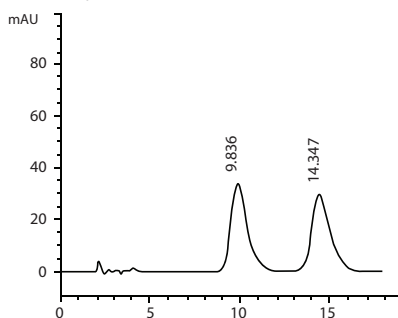
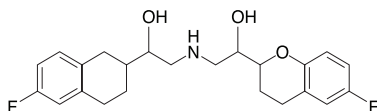
## Naringenin

**Column:** RegisPack,  
 5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (70/30)  
 CO<sub>2</sub>/CH<sub>3</sub>OH  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40 °C  
**Pressure:** 124 bar  
**Detection:** UV 290 nm  
**k'**: 6.71  
 **$\alpha$ :** 1.30  
**Catalog #:** 1-783104-300



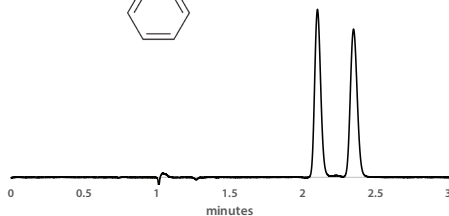
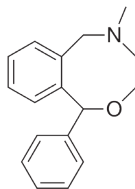
## Nebivolol

**Column:** RegisPack,  
 5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
 Hexane/Ethanol + 0.1% TFA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 280 nm  
**k'**: 4.18  
 **$\alpha$ :** 1.57  
**CAS #:** 99200-09-6  
**Catalog #:** 1-783104-300



## Nefopam

**Column:** Reflect C-Amylose A,  
 5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (80/20) CO<sub>2</sub>/  
 Methanol + 0.2% DEA  
**Flow Rate:** 3.0 mL/min  
**Temperature:** 40 °C  
**Pressure:** 150 bar  
**Detection:** UV 220 nm  
**k'**: 1.10  
 **$\alpha$ :** 1.22  
**CAS #:** 13669-70-0  
**Catalog #:** 1-580204-300



## Nefopam

**Column:** Reflect I-Amylose A,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (90/10)  $\text{CO}_2$ /  
Methanol + 0.2% DEA

**Flow Rate:** 3.0 mL/min

**Temperature:** 40  $^\circ\text{C}$

**Pressure:** 150 bar

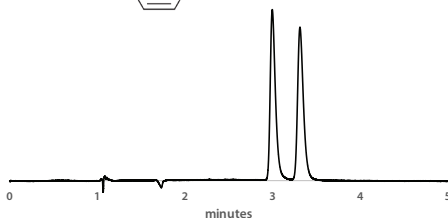
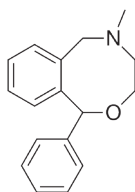
**Detection:** UV 220 nm

**$k'$ :** 1.99

**$\alpha$ :** 1.16

**CAS #:** 13669-70-0

**Catalog #:** 1-591204-300



## Nefopam

**Column:** Reflect C-Amylose A,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (90/10/0.1)  
Hexane/IPA/DEA

**Flow Rate:** 1.5 mL/min

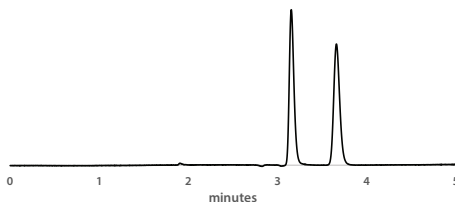
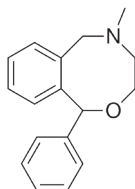
**Detection:** UV 254 nm

**$k'$ :** 0.57

**$\alpha$ :** 1.43

**CAS #:** 13669-70-0

**Catalog #:** 1-580204-300



## Nefopam

**Column:** Reflect I-Amylose A,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (95/5/0.1)  
Hexane/Ethanol/DEA

**Flow Rate:** 1.5 mL/min

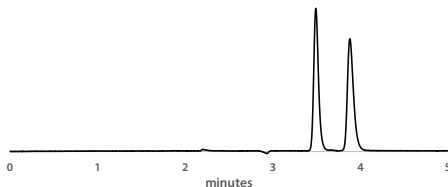
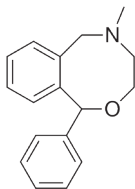
**Detection:** UV 254nm

**$k'$ :** 0.74

**$\alpha$ :** 1.26

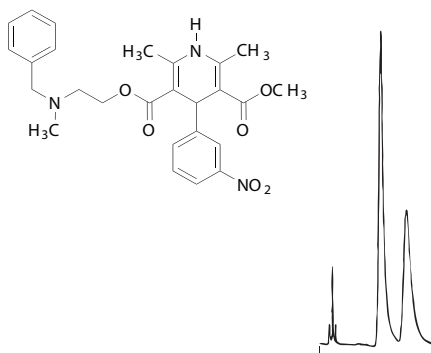
**CAS #:** 13669-70-0

**Catalog #:** 1-591204-300



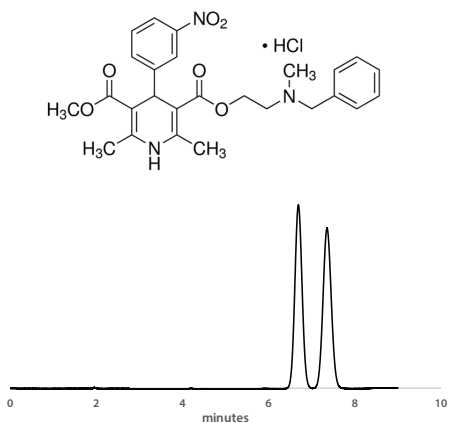
## Nicardipine

**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (73/27)  
Hexane/IPA + 0.1 % HOAc  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 30 min  
**k'**: 6.06  
 **$\alpha$ :** 1.52  
**Catalog #:** 1-780101-300,  
1-780201-300



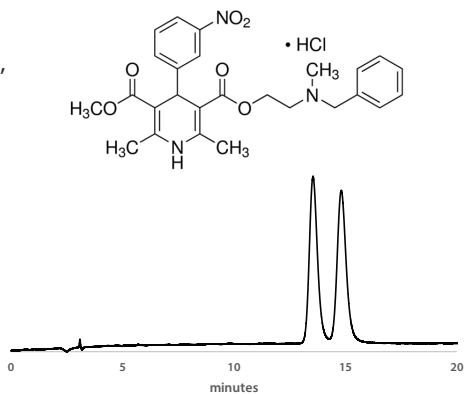
## Nicardipine

**Column:** Reflect C-Amylose A,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10/0.1)  
Hexane/Ethanol/DEA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**k'**: 2.34  
 **$\alpha$ :** 1.14  
**CAS #:** 54527-84-3  
**Catalog #:** 1-580204-300



## Nicardipine

**Column:** Reflect I-Cellulose C,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10/0.1)  
Hexane/2-propanol/DEA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**k'**: 3.40  
 **$\alpha$ :** 1.12  
**CAS #:** 54527-84-3  
**Catalog #:** 1-593204-300





## Nimodipine

**Column:** (R,R) Whelk-O 1,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (65/35)

Methanol/ $\text{H}_2\text{O}$

**Flow Rate:** 1.0 mL/min

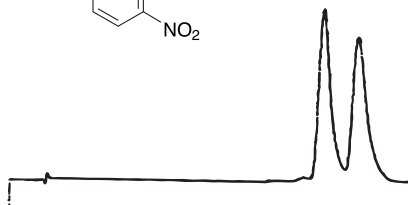
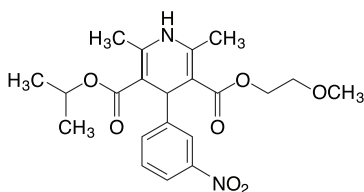
**Detection:** UV 254 nm

**Run Time:** 31 min

**$k'_1$ :** 9.25

**$\alpha$ :** 1.13

**Catalog #:** 1-780201-300



## Nimodipine

**Column:** Reflect I-Cellulose C,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (85/15/0.1)

Hexane/2-propanol/DEA

**Flow Rate:** 1.5 mL/min

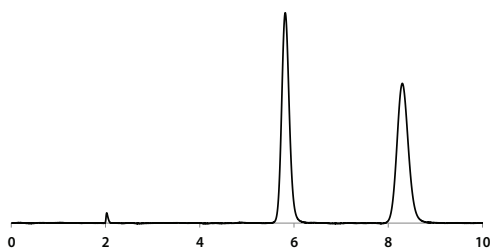
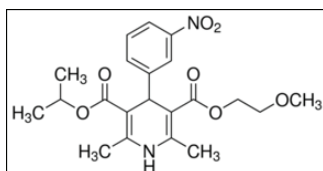
**Detection:** UV 254 nm

**$k'_1$ :** 1.97

**$\alpha$ :** 1.65

**CAS #:** 54527-84-3

**Catalog #:** 1-593204-300



## Nirvanol

**Column:** Whelk-O 1,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (80/20)

Hexane/IPA

**Flow Rate:** 1.0 mL/min

**Detection:** UV 254 nm

**Run Time:** 8 min

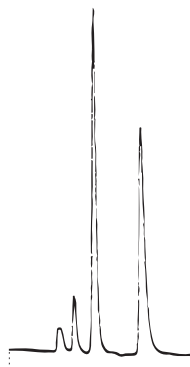
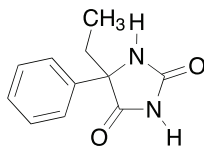
**$k'_1$ :** 1.50

**$\alpha$ :** 2.57

**Reference:** 28

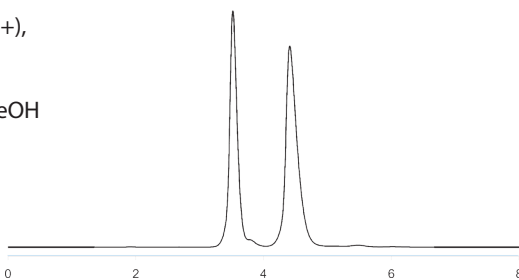
**Catalog #:** 1-780101-300,

1-780201-300



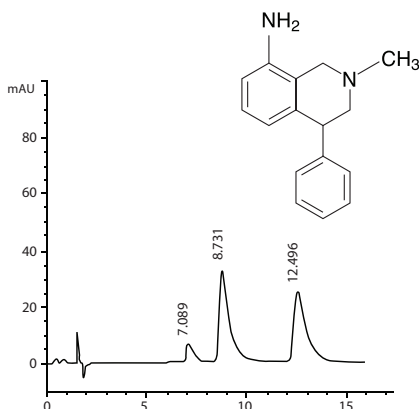
## 4-Nitro-Phenylalanine

**Column:** ChiroSil ME RCA(+),  
 5  $\mu\text{m}$ , 15 cm x 4.6 mm  
**Mobile Phase:** (40/60)  
 0.01% Phosphoric Acid/MeOH  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 210 nm  
**Temperature:** 40  $^{\circ}\text{C}$   
**k':** 1.91  
 **$\alpha$ :** 1.51  
**Catalog #:** 1-788001-300



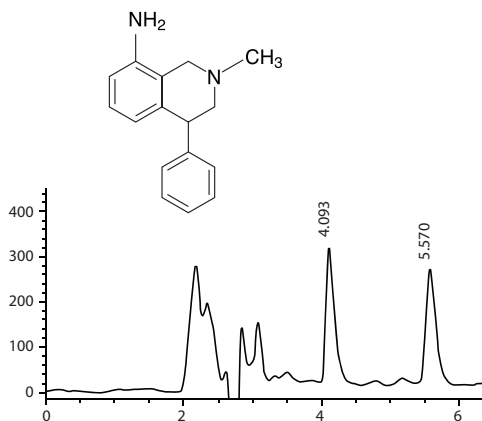
## Nomifensine

**Column:** Whelk-O 1,  
 5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
 Hexane/Ethanol + 0.1% TFA  
**Flow Rate:** 2.0 mL/min  
**Detection:** UV 254 nm  
**k':** 5.24  
 **$\alpha$ :** 1.51  
**CAS #:** 24526-64-5  
**Catalog #:** 1-780101-300,  
 1-780201-300



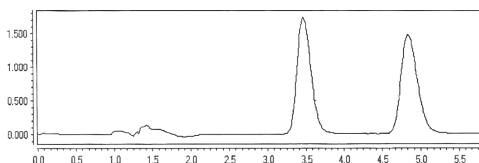
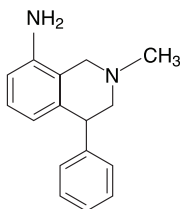
## Nomifensine

**Column:** RegisPack,  
 5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (80/20)  
 Hexane/IPA + 0.1% DEA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
**k':** 1.15  
 **$\alpha$ :** 1.67  
**CAS #:** 24526-64-5  
**Catalog #:** 1-783104-300



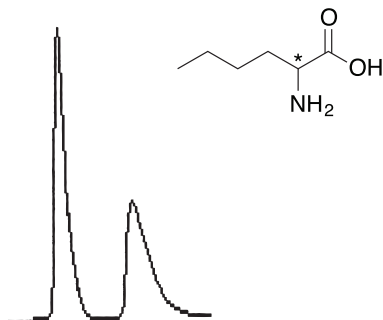
## Nomifensine

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (70/30)  
CO<sub>2</sub>/IPA + 0.5% DEA  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40 °C  
**Pressure:** 125 bar  
**Detection:** UV 254 nm  
**k'**: 1.81  
 **$\alpha$ :** 1.80  
**Catalog #:** 1-783104-300



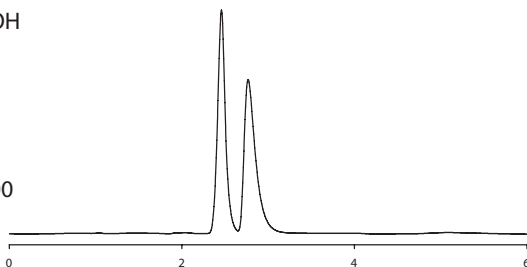
## Norleucine

**Column:** ChiroSil,  
5  $\mu\text{m}$ , 15 cm x 4.6 mm  
**Mobile Phase:** (45/55)  
MeOH/H<sub>2</sub>O in 10 mM Acetic Acid  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 210 nm  
**Run Time:** 5.6 min  
**k'**: 1.28  
**k'**: 2.23  
 **$\alpha$ :** 1.75  
**Catalog #:** 1-799001-300,  
1-799101-300



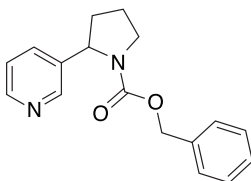
## DL-Norleucine

**Column:** ChiroSil ME RCA(+),  
5  $\mu\text{m}$ , 15 cm x 4.6 mm  
**Mobile Phase:** (30/70)  
10 mM Acetic Acid/MeOH  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 210 nm  
**Temperature:** 20 °C  
**k'**: 0.17  
 **$\alpha$ :** 1.86  
**Catalog #:** 1-788001-300



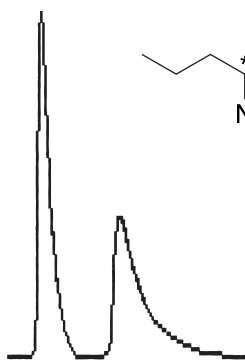
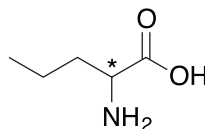
## CBZ Nornicotine

**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (25/75) MeOH/  
Dichloromethane  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 5 min  
**k'**: 0.37  
 **$\alpha$ :** 1.38  
**Reference:** 7  
**Catalog #:** 1-780101-300,  
1-780201-300



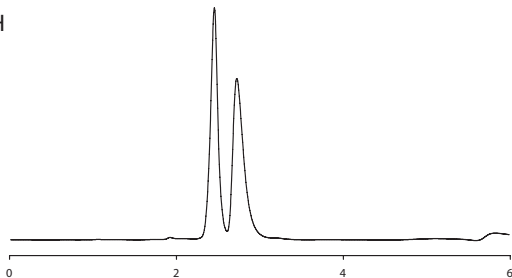
## Norvaline

**Column:** ChiroSil,  
5  $\mu\text{m}$ , 15 cm x 4.6 mm  
**Mobile Phase:** (45/55)  
MeOH/H<sub>2</sub>O in 10 mM Acetic Acid  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 210 nm  
**Temperature:** 20 °C  
**Run Time:** 5.3 min  
**k'**: 1.15  
**k'**: 2.05  
 **$\alpha$ :** 1.79  
**Catalog #:** 1-799001-300,  
1-799101-300



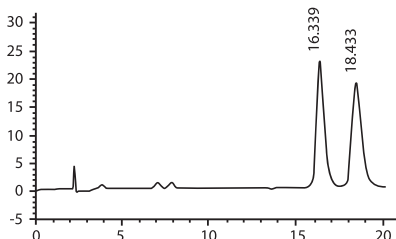
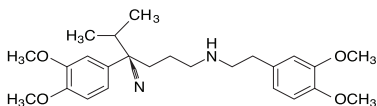
## DL-Norvaline

**Column:** ChiroSil ME RCA(+),  
5  $\mu\text{m}$ , 15 cm x 4.6 mm  
**Mobile Phase:** (30/70)  
10 mM Acetic Acid/MeOH  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 210 nm  
**Temperature:** 20 °C  
**k'**: 0.17  
 **$\alpha$ :** 1.76  
**Catalog #:** 1-788001-300



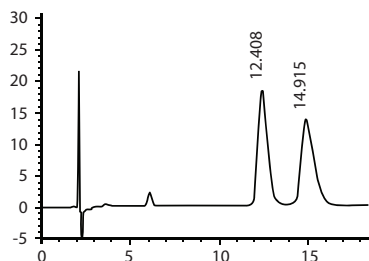
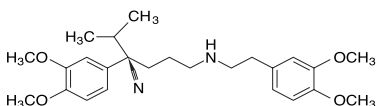
## Norverapamil

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (96/4)  
Hexane/Ethanol + 0.1% DEA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 290 nm  
**k'**: 7.47  
 **$\alpha$ :** 1.15  
**CAS #:** 67812-42-4  
**Catalog #:** 1-783104-300



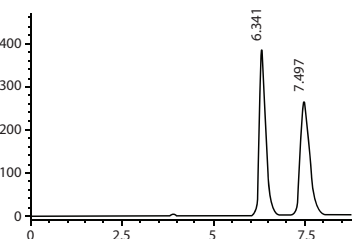
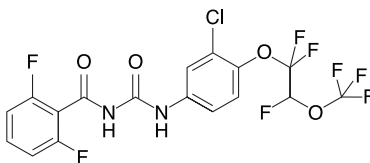
## Norverapamil

**Column:** RegicCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (95/5)  
Hexane/Ethanol + 0.1% DEA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 290 nm  
**k'**: 5.43  
 **$\alpha$ :** 1.24  
**CAS #:** 67812-42-4  
**Catalog #:** 1-784104-300



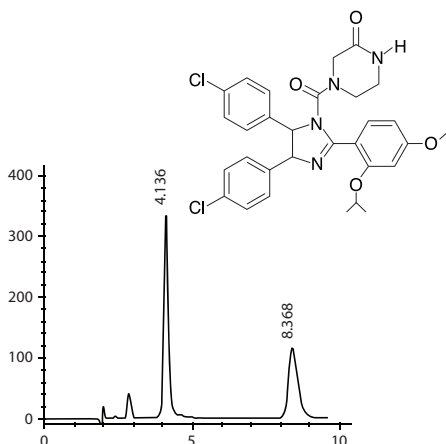
## Novaluron

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (92/8)  
Hexane/Ethanol  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**k'**: 2.29  
 **$\alpha$ :** 1.26  
**CAS #:** 116714-46-6  
**Catalog #:** 1-783104-300



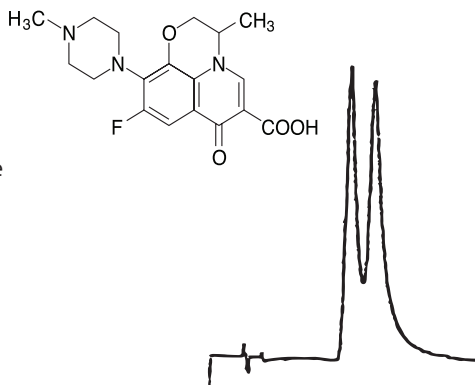
## Nutlin-3

**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** 100%  
Methanol  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**k':** 1.14  
 **$\alpha$ :** 2.93  
**CAS #:** 548472-68-0  
**Catalog #:** 1-780101-300,  
1-780201-300



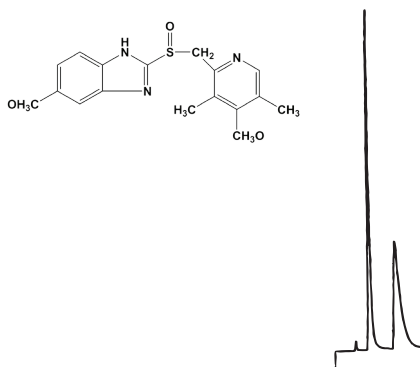
## Ofloxacin

**Column:** (S,S) Whelk-O 1,  
10  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (43/43/14)  
 $\text{CH}_2\text{Cl}_2$ /Hexane/Ethanol  
+ 0.01 M Ammonium Acetate  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 10.0 min  
**k':** 2.96  
 **$\alpha$ :** 1.24  
**Catalog #:** 1-786615-300



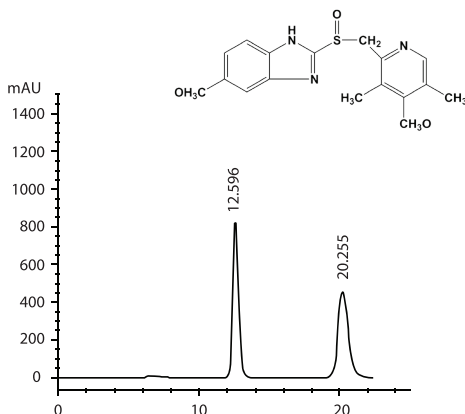
## Omeprazole

**Column:** (S)  $\alpha$ -Burke 2,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (95/5)  
 $\text{CH}_2\text{Cl}_2$ / $\text{CH}_3\text{OH}$   
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 302 nm  
**Run Time:** 8.0 min  
**k':** 0.64  
 **$\alpha$ :** 3.04  
**Catalog #:** 1-735037-300



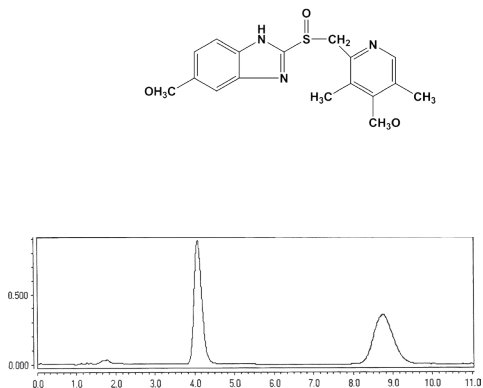
## Omeprazole

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (60/40)  
Hexane/Ethanol  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 302 nm  
 **$k'$ :** 3.34  
 **$\alpha$ :** 1.79  
**CAS #:** 73590-58-6  
**Catalog #:** 1-783104-300



## Omeprazole

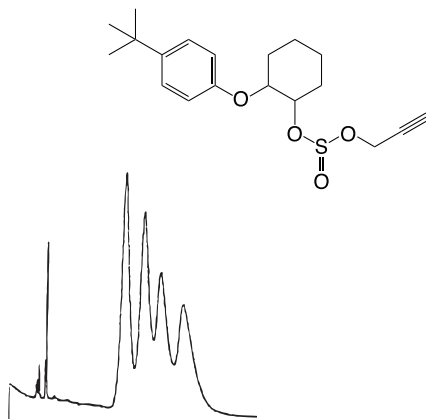
**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (55/45)  
 $\text{CO}_2/\text{CH}_3\text{OH}$   
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40  $^\circ\text{C}$   
**Pressure:** 125 bar  
**Detection:** UV 302 nm  
 **$k'$ :** 4.43  
 **$\alpha$ :** 2.41  
**Catalog #:** 1-783104-300



## Omite

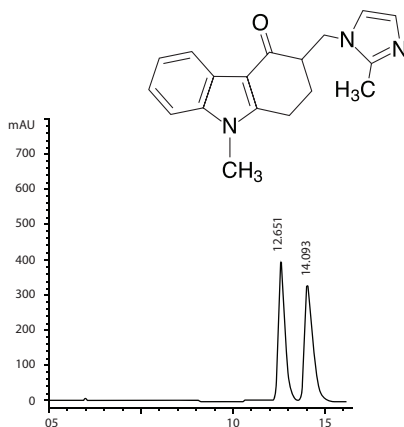
*Acaricide*  
*Mixture of isomers*

**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** 100% Hexane  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 25 min  
**Catalog #:** 1-780101-300,  
1-780201-300



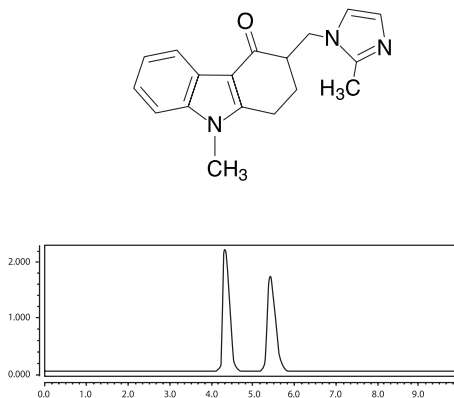
## Ondansetron

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (75/25)  
Hexane/Ethanol + 0.1% DEA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**k'**: 5.66  
 **$\alpha$ :** 1.13  
**CAS #:** 99614-02-5  
**Catalog #:** 1-783104-300



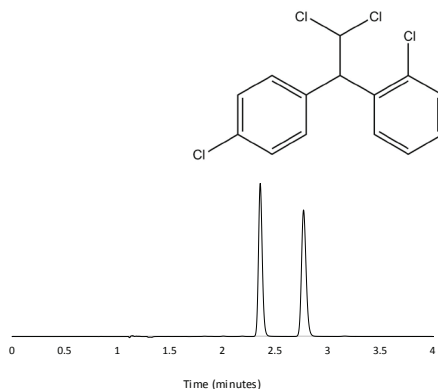
## Ondansetron

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (70/30)  
 $\text{CO}_2/\text{CH}_3\text{OH}$  + 0.5% DEA  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40  $^\circ\text{C}$   
**Pressure:** 125 bar  
**Detection:** UV 254 nm  
**k'**: 4.71  
 **$\alpha$ :** 1.30  
**Catalog #:** 1-783104-300



## o,p'-DDD

**Column:** Reflect I-Amylose A,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (80/20)  $\text{CO}_2/\text{IPA}$   
**Flow Rate:** 3.0 mL/min  
**Temperature:** 30  $^\circ\text{C}$   
**Pressure:** 150 bar  
**Detection:** UV 210 nm  
**k'**: 1.36  
 **$\alpha$ :** 1.30  
**CAS #:** 53-19-0  
**Catalog #:** 1-591204-300





**o,p'-DDD**

**Column:** Reflect I-Cellulose B,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (90/10)  $\text{CO}_2$ /  
Methanol

**Flow Rate:** 3.0 mL/min

**Temperature:** 30  $^\circ\text{C}$

**Pressure:** 150 bar

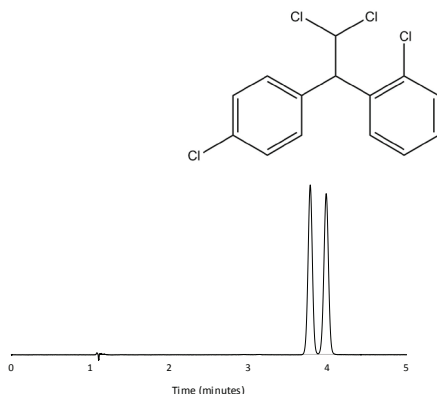
**Detection:** UV 210 nm

**$k'$ :** 2.78

**$\alpha$ :** 1.07

**CAS #:** 53-19-0

**Catalog #:** 1-592204-300

**o,p'-DDD**

**Column:** Reflect C-Amylose A,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (80/20)  $\text{CO}_2$ /IPA

**Flow Rate:** 3.0 mL/min

**Temperature:** 30  $^\circ\text{C}$

**Pressure:** 150 bar

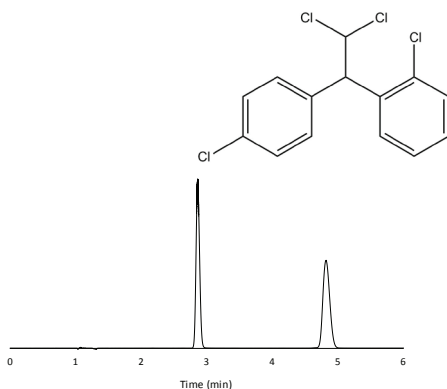
**Detection:** UV 210 nm

**$k'$ :** 1.86

**$\alpha$ :** 2.05

**CAS #:** 53-19-0

**Catalog #:** 1-580204-300

**o,p'-DDD**

**Column:** Reflect C-Cellulose B,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (95/5)  $\text{CO}_2$ /  
Methanol

**Flow Rate:** 3.0 mL/min

**Temperature:** 30  $^\circ\text{C}$

**Pressure:** 150 bar

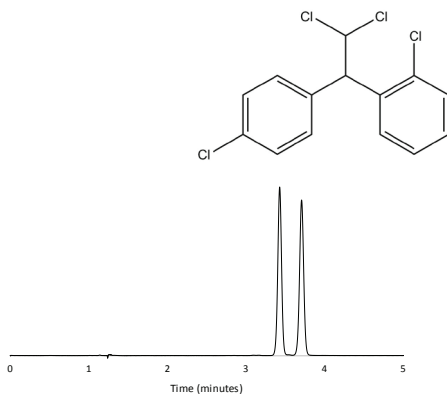
**Detection:** UV 210 nm

**$k'$ :** 2.42

**$\alpha$ :** 1.12

**CAS #:** 53-19-0

**Catalog #:** 1-590204-300



## o,p'-DDD

**Column:** Reflect I-Cellulose J,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (80/20)  $\text{CO}_2$ /  
Methanol

**Flow Rate:** 3.0 mL/min

**Temperature:** 30  $^\circ\text{C}$

**Pressure:** 150 bar

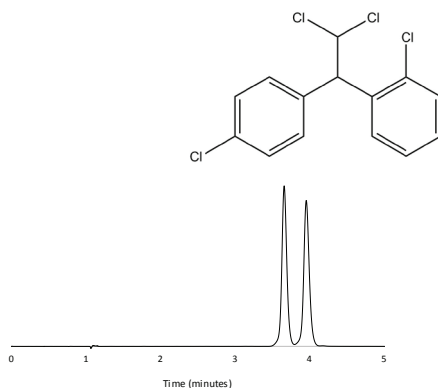
**Detection:** UV 210 nm

**$k'$ :** 2.65

**$\alpha$ :** 1.11

**CAS #:** 53-19-0

**Catalog #:** 1-594204-300



## o,p'-DDT

**Column:** Reflect I-Amylose A,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (80/20)  $\text{CO}_2$ /IPA

**Flow Rate:** 3.0 mL/min

**Temperature:** 30  $^\circ\text{C}$

**Pressure:** 150 bar

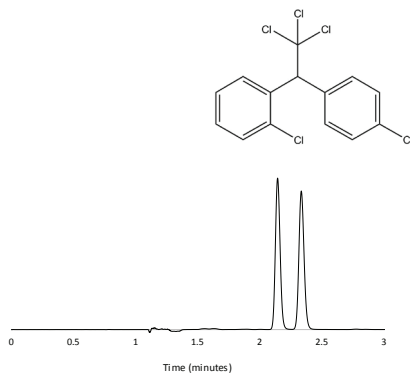
**Detection:** UV 210 nm

**$k'$ :** 1.14

**$\alpha$ :** 1.17

**CAS #:** 789-02-6

**Catalog #:** 1-591204-300



## o,p'-DDT

**Column:** Reflect C-Amylose A,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (90/10)  $\text{CO}_2$ /IPA

**Flow Rate:** 3.0 mL/min

**Temperature:** 30  $^\circ\text{C}$

**Pressure:** 150 bar

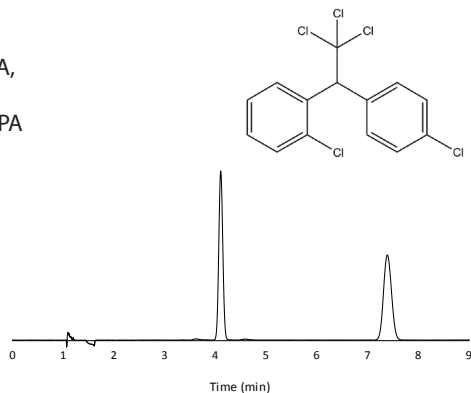
**Detection:** UV 210 nm

**$k'$ :** 3.10

**$\alpha$ :** 2.06

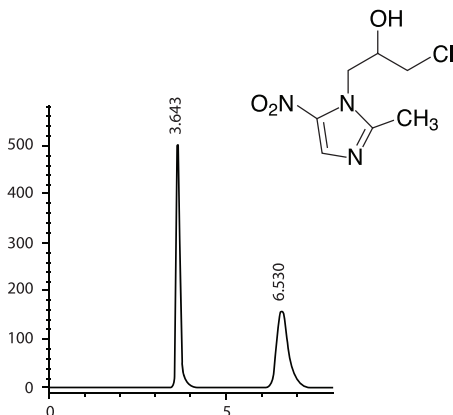
**CAS #:** 789-02-6

**Catalog #:** 1-580204-300



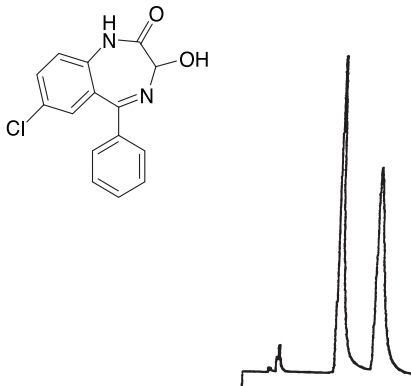
## Ornidazole

**Column:** RegisPack CLA- 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** 100% Ethanol  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**k'**: 0.26  
 **$\alpha$** : 4.81  
**CAS #:** 16773-42-5  
**Catalog #:** 1-793104-300



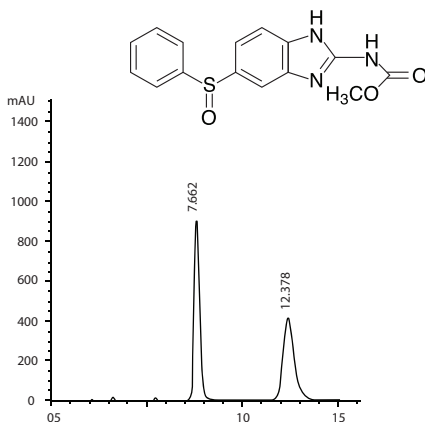
## Oxazepam

**Column:** (R,R) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (75/25)  
Hexane/IPA + 0.01 M  
Ammonium Acetate  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 9.5 min  
**k'**: 2.73  
 **$\alpha$** : 1.56  
**Catalog #:** 1-780201-300



## Oxfendazole

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** 100%  
Ethanol  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 220 nm  
**k'**: 1.64  
 **$\alpha$** : 1.99  
**CAS #:** 53716-50-0  
**Catalog #:** 1-783104-300



## Oxprenolol

**Column:** Reflect I-Cellulose B,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (80/20/0.1)

Hexane/IPA/DEA

**Flow Rate:** 1.5 mL/min

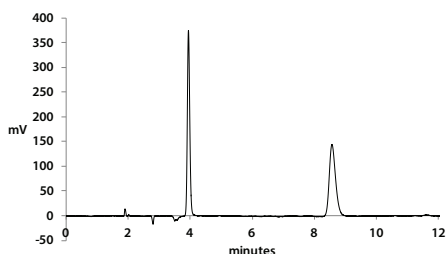
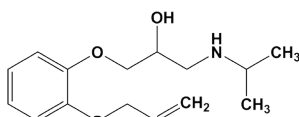
**Detection:** UV 230 nm

**k':** 1.05

**$\alpha$ :** 3.30

**CAS #:** 6452-71-7

**Catalog #:** 1-592204-300



## Oxprenolol

**Column:** (3R,4S) Pirkle 1-J,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (90/10)

$\text{CH}_2\text{Cl}_2$ /Ethanol + 0.015M

Ammonium Acetate

**Flow Rate:** 1.0 mL/min

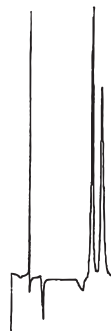
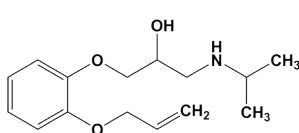
**Detection:** UV 254 nm

**Run Time:** 13.5 min

**k':** 3.55

**$\alpha$ :** 1.15

**Catalog #:** 1-731044-300



## Oxybutynin

**Column:** RegisPack,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (95/5)

Hexane/IPA

**Flow Rate:** 1.5 mL/min

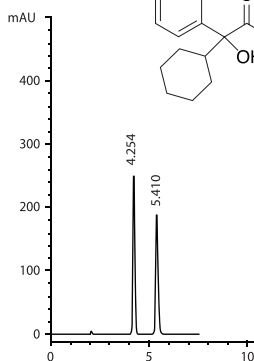
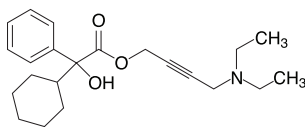
**Detection:** UV 220 nm

**k':** 1.24

**$\alpha$ :** 1.49

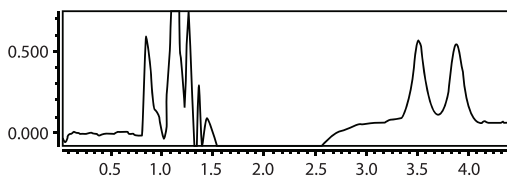
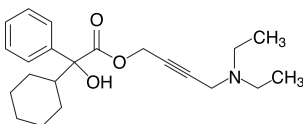
**CAS #:** 5633-20-5

**Catalog #:** 1-783104-300



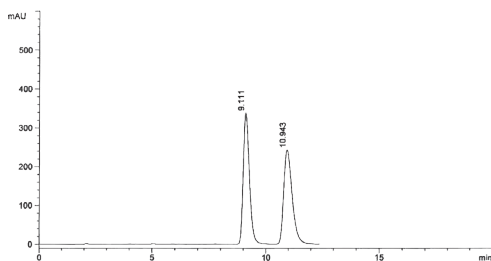
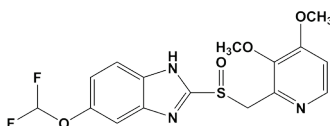
## Oxybutynin

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
 $\text{CO}_2/\text{IPA} + 0.5\% \text{ DEA}$   
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40  $^\circ\text{C}$   
**Pressure:** 125 bar  
**Detection:** UV 254 nm  
 $k'_1$ : 3.68  
 $\alpha$ : 1.13  
**Catalog #:** 1-783104-300



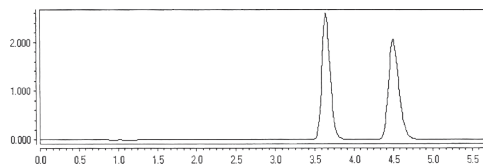
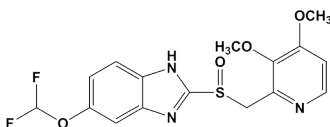
## Pantoprazole

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (75/25)  
Hexane/Ethanol  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 280 nm  
 $k'_1$ : 3.8  
 $\alpha$ : 1.25  
**Catalog #:** 1-783104-300



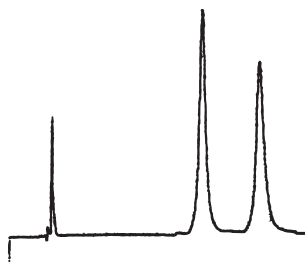
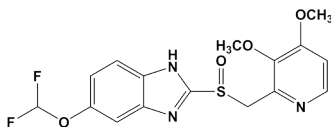
## Pantoprazole

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (75/25)  
 $\text{CO}_2/\text{Ethanol}$   
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40  $^\circ\text{C}$   
**Pressure:** 125 bar  
**Detection:** UV 280 nm  
 $k'_1$ : 3.86  
 $\alpha$ : 1.30  
**Catalog #:** 1-783104-300



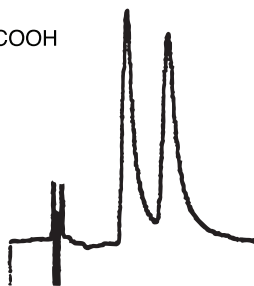
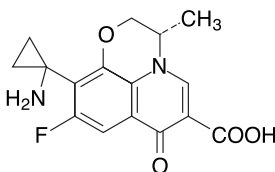
## Pantoprazole

**Column:** (R)  $\alpha$ -Burke 2,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (48/48/4)  
CH<sub>2</sub>Cl<sub>2</sub>/Hexane/Ethanol  
+ 4 mM Ammonium Acetate  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 280 nm  
**Run Time:** 12.0 min  
**k'**: 4.07  
 **$\alpha$** : 1.38  
**Catalog #:** 1-735035-300



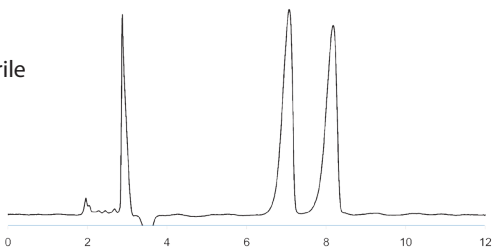
## Pazufloxacin

**Column:** (S,S) Whelk-O 1  
10  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (40/40/20)  
CH<sub>2</sub>Cl<sub>2</sub>/Hexane/IPA  
+ 0.15% TFA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 6.7 min  
**k'**: 1.71  
 **$\alpha$** : 1.58  
**Catalog #:** 1-786615-300



## DL-Penicillamine

**Column:** ChiroSil ME RCA(+),  
5  $\mu\text{m}$ , 15 cm x 4.6 mm  
**Mobile Phase:** (10/90)  
10 mM H<sub>2</sub>SO<sub>4</sub> aq./Acetonitrile  
**Flow Rate:** 0.8 mL/min  
**Detection:** UV 210 nm  
**Temperature:** 15°C  
**Catalog #:** 1-788001-300



## Permethrin

**Column:** (S,S) Whelk-O 1, 5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (90/10)

Hexane/IPA

**Flow Rate:** 1.5 mL/min

**Detection:** UV 254 nm

**k'**<sub>1</sub>: 1.28

**k'**<sub>2</sub>: 1.35

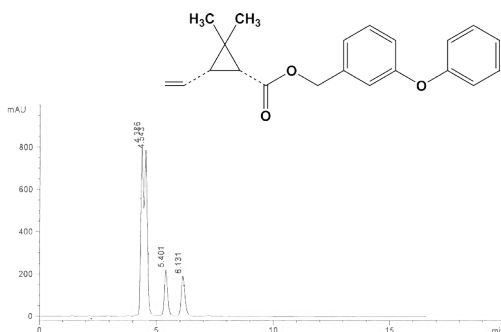
**k'**<sub>3</sub>: 1.80

**k'**<sub>4</sub>: 2.18

**$\alpha$** <sub>1,2</sub>: 1.06

**$\alpha$** <sub>3,4</sub>: 1.21

**Catalog #:** 1-780101-300



## Permethrin

*Insecticide*

**Column:** Whelk-O 1, 5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** 100%

Hexane + 0.2% IPA

**Flow Rate:** 1.0 mL/min

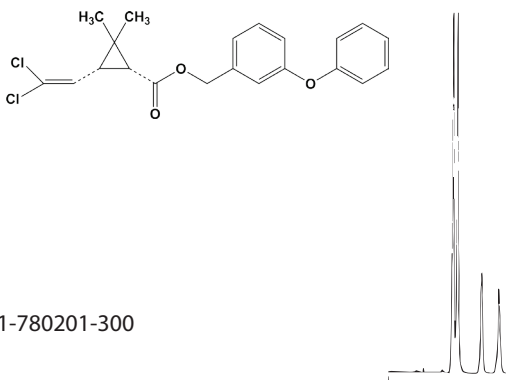
**Detection:** UV 254 nm

**k'**<sub>1</sub>: 4.83 cis; 7.46 trans

**$\alpha$** : 1.11 cis; 1.24 trans

**Run Time:** 16 min

**Catalog #:** 1-780101-300, 1-780201-300



## CBZ-Phe

**Column:** Whelk-O 1, 5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Flow Rate:** (95/5)

Hexane/IPA + 0.1 % HOAc

**Flow Rate:** 1.0 mL/min

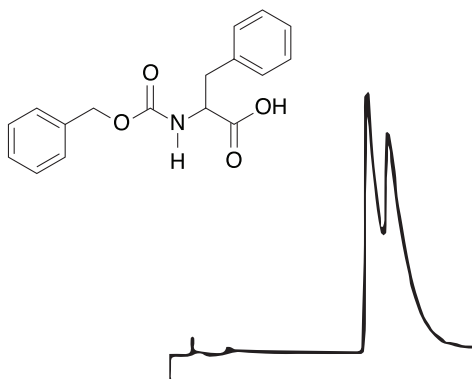
**Detection:** UV 254 nm

**Run Time:** 40 min

**k'**<sub>1</sub>: 10.2

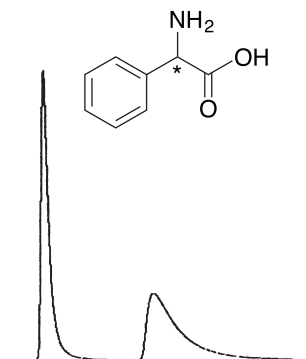
**$\alpha$** : 1.20

**Catalog #:** 1-780101-300,  
1-780201-300



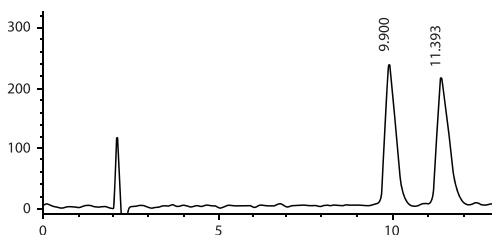
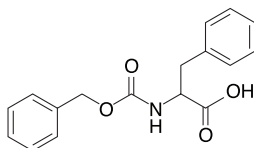
## Phenylalanine

**Column:** ChiroSil,  
5  $\mu\text{m}$ , 15 cm x 4.6 mm  
**Mobile Phase:** (70/30)  
MeOH/H<sub>2</sub>O in 10 mM Acetic Acid  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 210 nm  
**Temperature:** 20 °C  
**Run Time:** 8.9 min  
**k'**: 2.66  
**k'**: 6.84  
 **$\alpha$ :** 2.57  
**Catalog #:** 1-799001-300, 1-799101-300



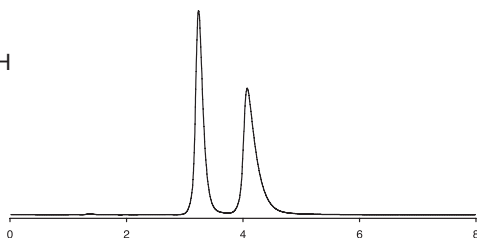
## N-CBZ-Phenylalanine

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
Hexane/Ethanol + 0.1% TFA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
**k'**: 4.21  
 **$\alpha$ :** 1.19  
**CAS #:** 3588-57-6  
**Catalog #:** 1-783104-300



## DL-Phenylalanine

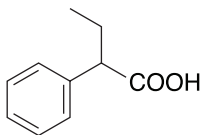
**Column:** ChiroSil ME RCA(+),  
5  $\mu\text{m}$ , 15 cm x 4.6 mm  
**Mobile Phase:** (30/70)  
0.01% Phosphoric Acid/MeOH  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 210 nm  
**Temperature:** 20 °C  
**k'**: 0.71  
 **$\alpha$ :** 1.62  
**Catalog #:** 1-788001-300





## Phenylbutyric Acid

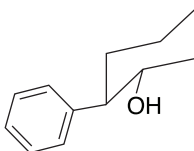
**Column:** (S,S) ULMO,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (99/1)  
Heptane/IPA + 0.1% TFA  
**Flow Rate:** 2.0 mL/min  
**Detection:** UV 215 nm  
**Run Time:** 6.5 min  
**k'**: 3.19  
 **$\alpha$ :** 1.16  
**Reference:** 43  
**Catalog #:** 1-787100-300



## Trans Phenyl Cyclohexanol

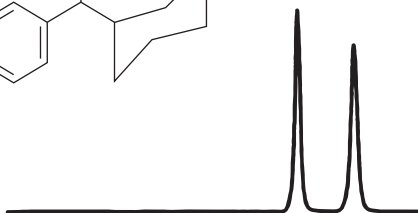
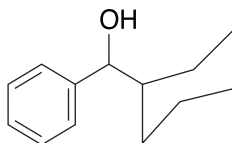
*Analytical vs. Preparative Run*

**Column:** (S,S) ULMO,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (99/1)  
Heptane/IPA  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 270 nm  
**Run Time:** 7.0 min  
**Reference:** 43  
**Catalog #:** 1-787100-300



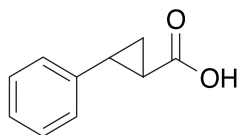
## Phenyl Cyclohexyl Carbinol

**Column:** (S,S) ULMO,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (99/1)  
Heptane/IPA  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 215 nm  
**Run Time:** 6.5 min  
**k'**: 0.97  
 **$\alpha$ :** 1.39  
**Reference:** 43  
**Catalog #:** 1-787100-300



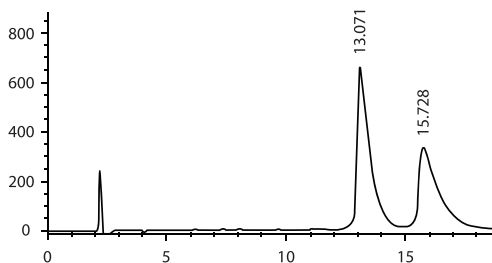
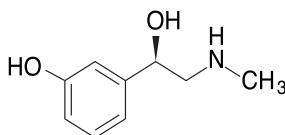
## 2-Phenylcyclopropane Carboxylate

**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (99/1)  
Hexane/IPA  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 220 nm  
**Run Time:** 18 min  
**k'**: 4.19  
 $\alpha$ : 1.34  
**Catalog #:** 1-780101-300,  
1-780201-300



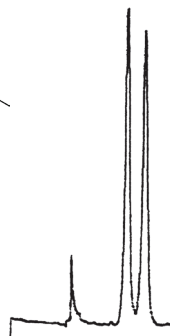
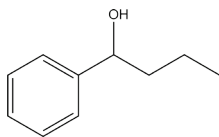
## Phenylephrine

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (92/8)  
Hexane/Ethanol + 0.1% TFA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
**k'**: 5.88  
 $\alpha$ : 1.24  
**CAS #:** 61-76-7  
**Catalog #:** 1-783104-300



## Phenyl Ethyl Carbinol

**Column:** (R,R) ULMO,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (99/1)  
Hexane/IPA  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 6.5 min  
**k'**: 1.06  
 $\alpha$ : 1.30  
**Catalog #:** 1-787200-300



## Phenylethylene Glycol

**Column:** (S,S) Whelk-O 1,

10  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (99/1)

Hexane/Ethanol

**Flow Rate:** 2.0 mL/min

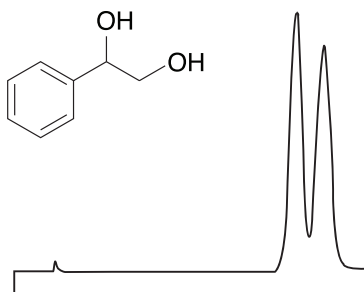
**Detection:** UV 254 nm

**Run Time:** 18.7 min

**k':** 11.62

**$\alpha$ :** 1.11

**Catalog #:** 1-786615-300



## Phenylglycine

**Column:** ChiroSil,

5  $\mu\text{m}$ , 15 cm x 4.6 mm

**Mobile Phase:** (70/30)

$\text{CH}_3\text{OH}/\text{H}_2\text{O}$  + 10 mM  $\text{H}_2\text{SO}_4$   
and 0.1% TEA

**Flow Rate:** 1.0 mL/min

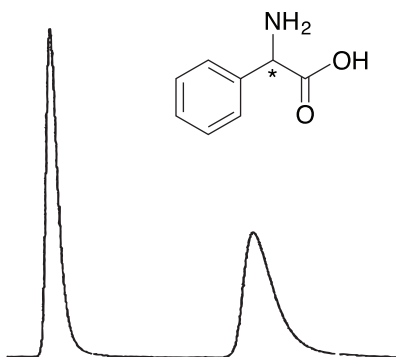
**Detection:** UV 210 nm

**Run Time:** 13.1 min

**k':** 3.14

**$\alpha$ :** 2.60

**Catalog #:** 1-799001-300,  
1-799101-300



## Phenyl Isopropyl Carbinol

**Column:** (S,S) ULMO,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (99/1)

Heptane/IPA

**Flow Rate:** 1.0 mL/min

**Detection:** UV 215 nm

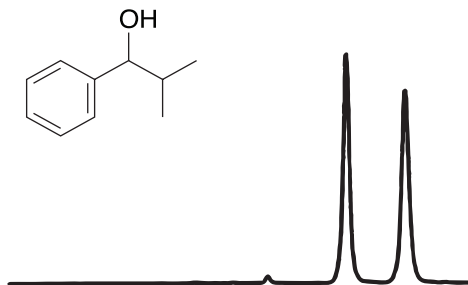
**Run Time:** 6 min

**k':** 0.86

**$\alpha$ :** 1.38

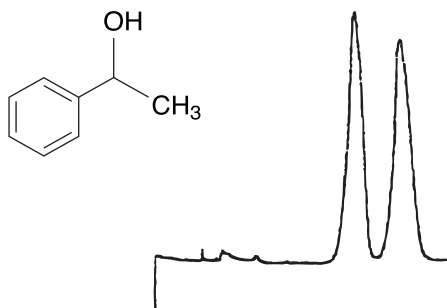
**Reference:** 43

**Catalog #:** 1-787100-300



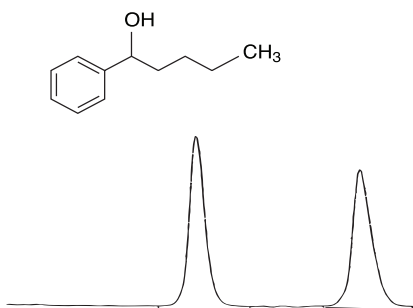
## Phenyl Methyl Carbinol

**Column:** (R,R) ULMO,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** 100%  
Hexane  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 14 min  
**k'**: 3.11  
 **$\alpha$ :** 1.30  
**Catalog #:** 1-787200-300



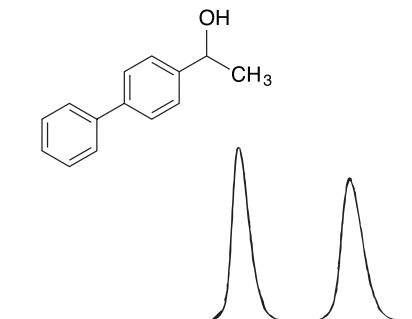
## 1-Phenylpentanol

**Column:** (S,S) ULMO,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (99/1)  
n-Heptane/1,2-Dimethoxyethane  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 7.0 min  
**k'**: 1.65  
 **$\alpha$ :** 1.45  
**Reference:** 55  
**Catalog #:** 1-787100-300



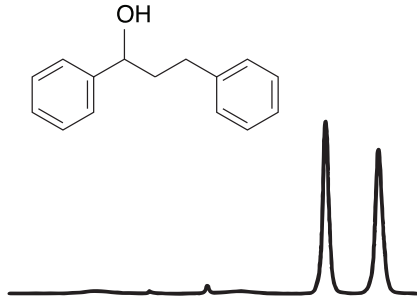
## 1-[(4-Phenyl) phenyl] Ethanol

**Column:** (S,S) ULMO,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (98.5/1.5)  
n-Heptane/1,2-Dimethoxyethane  
**Flow Rate:** 2.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 8.5 min  
**k'**: 3.76  
 **$\alpha$ :** 1.21  
**Reference:** 55  
**Catalog #:** 1-787100-300



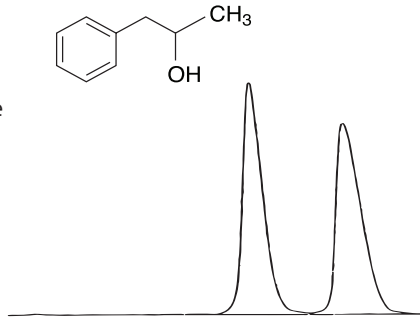
## Phenyl Phenylethyl Carbinol

**Column:** (S,S) ULMO,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (99/1)  
Heptane/IPA  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 215 nm  
**Run Time:** 9.5 min  
**k'**: 1.81  
 **$\alpha$ :** 1.30  
**Reference:** 43  
**Catalog #:** 1-787100-300



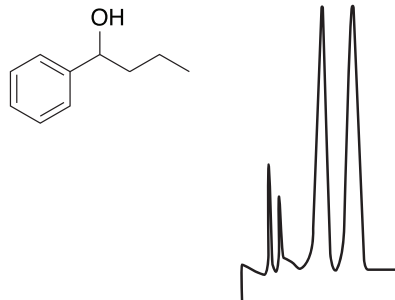
## 1-Phenyl-2-propanol

**Column:** (S,S) ULMO,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (98.5/1.5)  
n-Heptane/1,2-Dimethoxyethane  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 6.5 min  
**k'**: 1.72  
 **$\alpha$ :** 1.19  
**Reference:** 55  
**Catalog #:** 1-787100-300



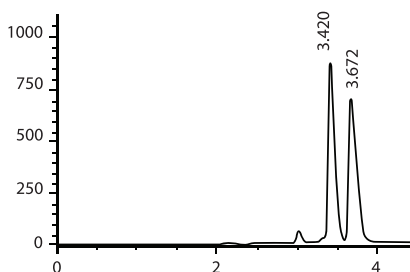
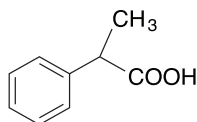
## Phenyl Propyl Carbinol

**Column:** (R,R) ULMO,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** 100%  
Hexane  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 12 min  
**k'**: 2.25  
 **$\alpha$ :** 1.56  
**Catalog #:** 1-787200-300



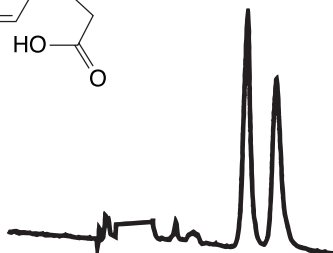
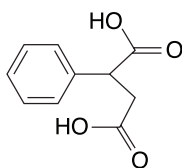
## 2-Phenylpropionic Acid

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (92/8)  
Hexane/IPA + 0.1% TFA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
 **$k'$ :** 0.80  
 **$\alpha$ :** 1.17  
**CAS #:** 492-37-5  
**Catalog #:** 1-783104-300



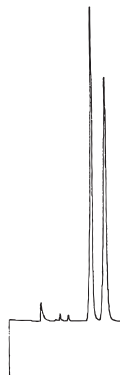
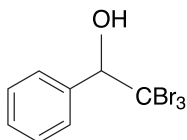
## Phenylsuccinic Acid

**Column:** (S,S) ULMO,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (95/5)  
Hexane/IPA + 0.1% TFA  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 8.5 min  
 **$k'$ :** 1.71  
 **$\alpha$ :** 1.22  
**Reference:** 43  
**Catalog #:** 1-787100-300



## Phenyl Tribromomethyl Carbinol

**Column:** (R,R) ULMO,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (99/1)  
Hexane/IPA  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 9 min  
 **$k'$ :** 1.87  
 **$\alpha$ :** 1.25  
**Catalog #:** 1-787200-300



## Secondary Phosphine Oxide

**Column:** (S,S) DACH-DNB,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (75/25)

$\text{CH}_2\text{Cl}_2/\text{IPA}$

**Flow Rate:** 1.0 mL/min

**Detection:** UV 254 nm

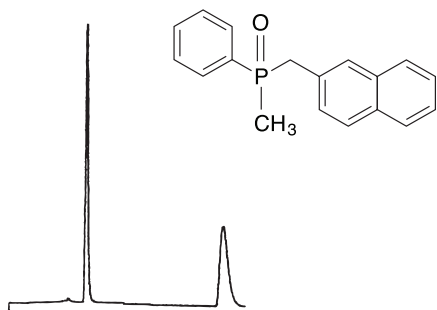
**Run Time:** 19.0 min

**$k'$ :** 1.49

**$\alpha$ :** 4.11

**Reference:** 54

**Catalog #:** 1-788201-300



## Secondary Phosphine Oxide

**Column:** (S,S) DACH-DNB,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (90/10)

$\text{CH}_2\text{Cl}_2/\text{IPA}$

**Flow Rate:** 1.0 mL/min

**Detection:** UV 254 nm

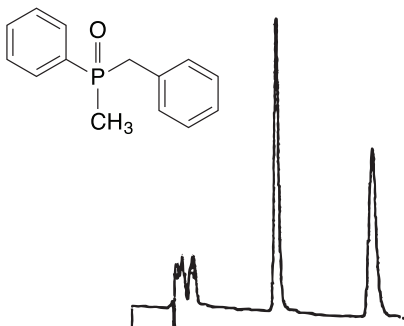
**Run Time:** 14.5 min

**$k'$ :** 2.20

**$\alpha$ :** 1.97

**Reference:** 54

**Catalog #:** 1-788201-300



## Secondary Phosphine Oxide

**Column:** (S,S) DACH-DNB,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (90/10)

$\text{CH}_2\text{Cl}_2/\text{IPA}$

**Flow Rate:** 1.0 mL/min

**Detection:** UV 254 nm

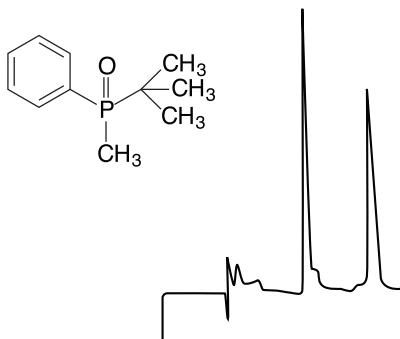
**Run Time:** 8.0 min

**$k'$ :** 1.23

**$\alpha$ :** 1.81

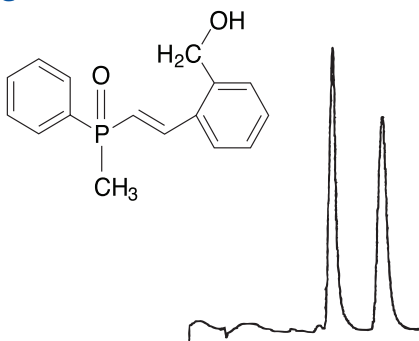
**Reference:** 54

**Catalog #:** 1-788201-300



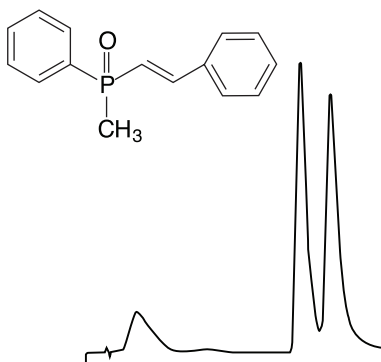
## Tertiary Phosphine Oxide

**Column:** (R,R) DACH-DNB,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (37.5/37.5/25)  
Hex/Dioxane/IPA  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 14.0 min  
**k'**: 2.19  
 **$\alpha$ :** 1.48  
**Reference:** 54  
**Catalog #:** 1-788101-300



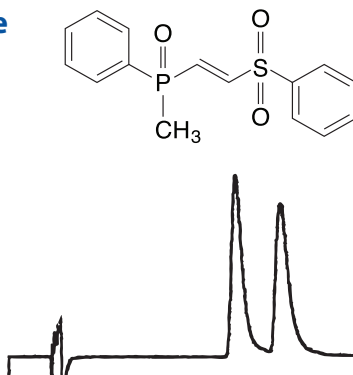
## Tertiary Phosphine Oxide

**Column:** (R,R) DACH-DNB,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (42.5/42.5/15)  
Hexane/Dioxane/IPA  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 28.0 min  
**k'**: 8.11  
 **$\alpha$ :** 1.17  
**Reference:** 54  
**Catalog #:** 1-788101-300



## Tertiary Phosphine Oxide

**Column:** (R,R) DACH-DNB,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (40/40/20)  
Hexane/Dioxane/IPA  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 14.0 min  
**k'**: 4.19  
 **$\alpha$ :** 1.25  
**Reference:** 54  
**Catalog #:** 1-788101-300





## Phosphine Selenium Oxide

**Column:** (S,S) DACH-DNB,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (70/30)

Hexane/CH<sub>2</sub>Cl<sub>2</sub>

**Flow Rate:** 1.0 mL/min

**Detection:** UV 254 nm

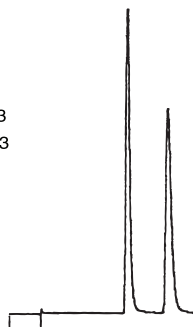
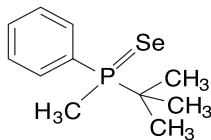
**Run Time:** 13.0 min

**k'**: 2.49

**$\alpha$** : 1.48

**Reference:** 54

**Catalog #:** 1-788201-300



## Pindolol

**Column:** RegisPack,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (90/10)

Hexane/Ethanol + 0.1% DEA

**Flow Rate:** 1.5 mL/min

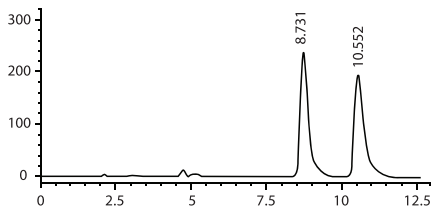
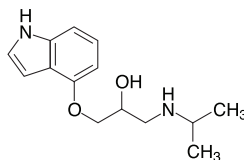
**Detection:** UV 254 nm

**k'**: 3.60

**$\alpha$** : 1.27

**CAS #:** 13523-86-9

**Catalog #:** 1-783104-300



## Pindolol

**Column:** RegisCell,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (60/40)

Hexane/Ethanol + 0.1% DEA

**Flow Rate:** 1.5 mL/min

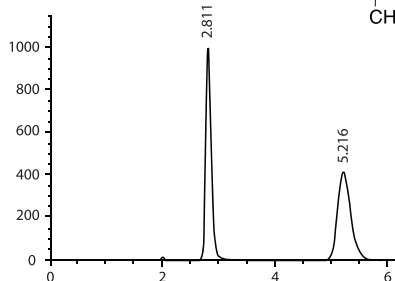
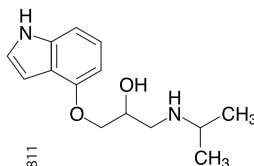
**Detection:** UV 254 nm

**k'**: 0.48

**$\alpha$** : 3.64

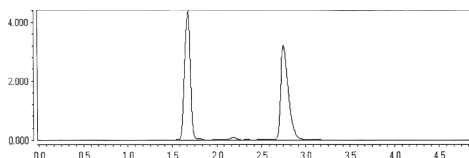
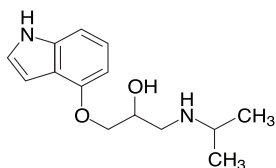
**CAS #:** 13523-86-9

**Catalog #:** 1-784104-300



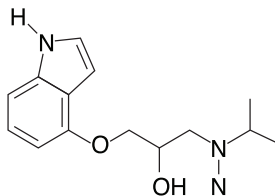
## Pindolol

**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (70/30)  
 $\text{CO}_2/\text{CH}_3\text{OH}$  + 0.5% DEA  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40  $^\circ\text{C}$   
**Pressure:** 125 bar  
**Detection:** UV 254 nm  
**k'**: 1.24  
 **$\alpha$ :** 2.15  
**Catalog #:** 1-784104-300



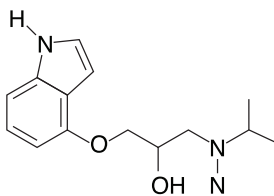
## Pindolol

**Column:**  $\alpha$ -Burke 2,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (85/15)  
 $\text{CH}_2\text{Cl}_2/\text{EtOH}$   
+ 20mM  $\text{NH}_4\text{OAc}$   
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 20 min  
**Reference:** 30  
**k'**: 4.35  
 **$\alpha$ :** 1.50  
**Catalog #:** 1-735035-300,  
1-735037-300



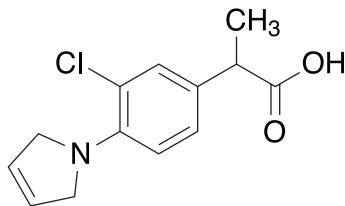
## Pindolol

**Column:** (3R,4S) Pirkle 1-J,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (80/20)  
 $\text{CH}_2\text{Cl}_2/\text{Ethanol}$  + 0.04M  
Ammonium Acetate  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 11.0 min  
**k'**: 1.56  
 **$\alpha$ :** 2.06  
**Catalog #:** 1-731044-300



## Pirprofen

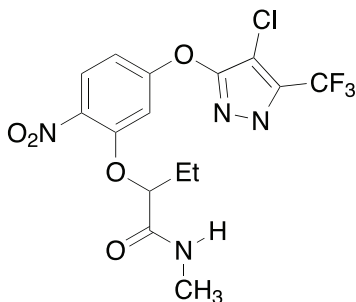
**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (80/20)  
Hexane/IPA  
+ 1g/L  $\text{NH}_4\text{OAc}$   
**Flow Rate:** 2.0 mL/min  
**Detection:** UV 254 nm  
 **$k'$ :** 0.85  
 **$\alpha$ :** 1.81  
**Reference:** 4  
**Catalog #:** 1-780101-300,  
1-780201-300



*No chromatogram available.*

## PPO Inhibitor

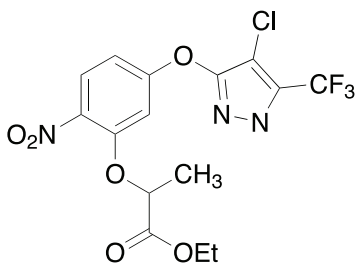
**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
Hexane/IPA  
**Flow Rate:** 2.0 mL/min  
**Detection:** UV 254 nm  
 **$k'$ :** 5.2  
 **$\alpha$ :** 1.32  
**Reference:** 21  
**Catalog #:** 1-780101-300,  
1-780201-300



*No chromatogram available.*

## PPO Inhibitor

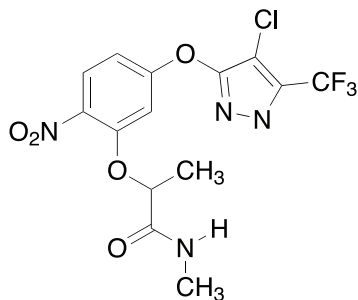
**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
Hexane/IPA  
**Flow Rate:** 2.0 mL/min  
**Detection:** UV 254 nm  
 **$k'$ :** 3.2  
 **$\alpha$ :** 1.08  
**Reference:** 21  
**Catalog #:** 1-780101-300,  
1-780201-300



*No chromatogram available.*

## PPO Inhibitor

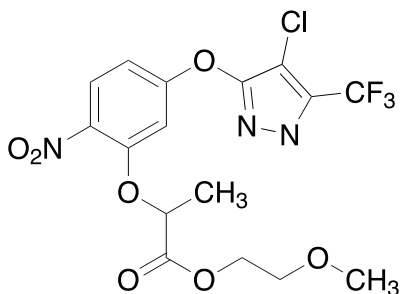
**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
Hexane/IPA  
**Flow Rate:** 2.0 mL/min  
**Detection:** UV 254 nm  
**k'**: 7.5  
 **$\alpha$ :** 1.29  
**Reference:** 21  
**Catalog #:** 1-780101-300,  
1-780201-300



*No chromatogram available.*

## PPO Inhibitor

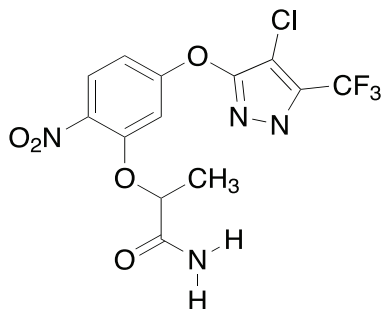
**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
Hexane/IPA  
**Flow Rate:** 2.0 mL/min  
**Detection:** UV 254 nm  
**k'**: 6.1  
 **$\alpha$ :** 1.08  
**Reference:** 21  
**Catalog #:** 1-780101-300,  
1-780201-300



*No chromatogram available.*

## PPO Inhibitor

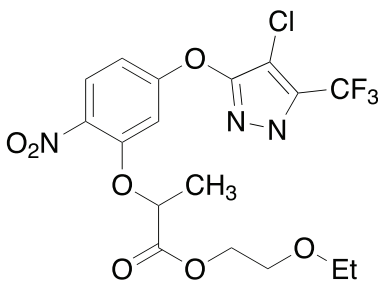
**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
Hexane/IPA  
**Flow Rate:** 2.0 mL/min  
**Detection:** UV 254 nm  
**k'**: 8.0  
 **$\alpha$ :** 1.22  
**Reference:** 21  
**Catalog #:** 1-780101-300,  
1-780201-300



*No chromatogram available.*

## PPO Inhibitor

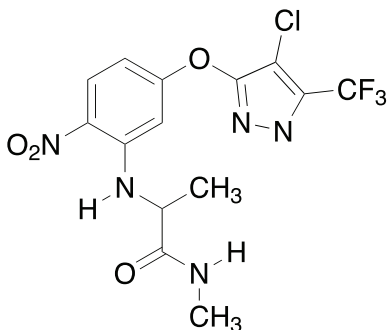
**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10) Hexane/  
IPA  
**Flow Rate:** 2.0 mL/min  
**Detection:** UV 254 nm  
**k':** 4.2  
 **$\alpha$ :** 1.10  
**Reference:** 21  
**Catalog #:** 1-780101-300,  
1-780201-300



*No chromatogram available.*

## PPO Inhibitor

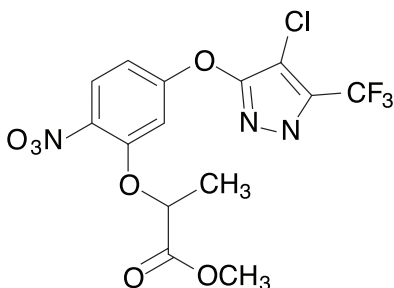
**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
Hexane/IPA  
**Flow Rate:** 2.0 mL/min  
**Detection:** UV 254 nm  
**k':** 15.1  
 **$\alpha$ :** 1.04  
**Reference:** 21  
**Catalog #:** 1-780101-300,  
1-780201-300



*No chromatogram available.*

## PPO Inhibitor

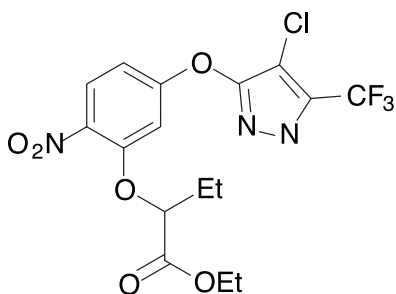
**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
Hexane/IPA  
**Flow Rate:** 2.0 mL/min  
**Detection:** UV 254 nm  
**k':** 3.9  
 **$\alpha$ :** 1.11  
**Reference:** 21  
**Catalog #:** 1-780101-300,  
1-780201-300



*No chromatogram available.*

## PPO Inhibitor

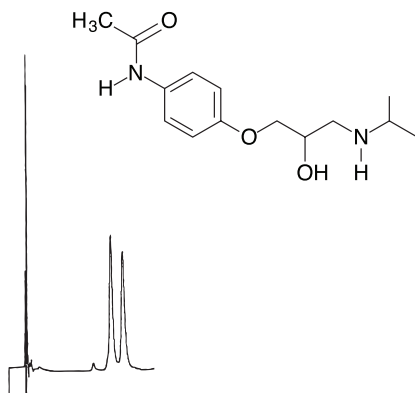
**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
Hexane/IPA  
**Flow Rate:** 2.0 mL/min  
**Detection:** UV 254 nm  
**k'**: 2.4  
 **$\alpha$ :** 1.12  
**Reference:** 21  
**Catalog #:** 1-780101-300,  
1-780201-300



*No chromatogram available.*

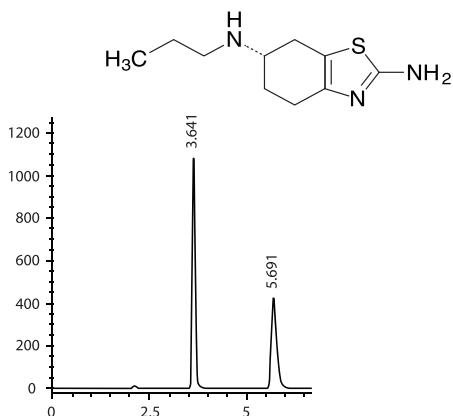
## Practolol

**Column:**  $\alpha$ -Burke 2,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (85/10/5)  
 $\text{CH}_2\text{Cl}_2/\text{EtOH}/\text{MeOH}$   
15 mM  $\text{NH}_4\text{OAc}$   
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 19 min  
**k'**: 4.78  
 **$\alpha$ :** 1.14  
**Reference:** 30  
**Catalog #:** 1-735035-300,  
1-735037-300



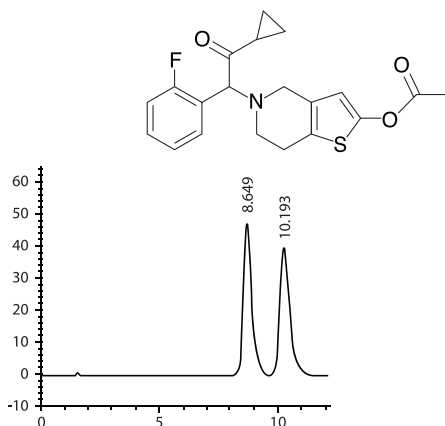
## Pramipexole

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (80/20)  
Hexane/Ethanol + 0.1% DEA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**k'**: 0.89  
 **$\alpha$ :** 2.19  
**CAS #:** 104632-26-0  
**Catalog #:** 1-783104-300



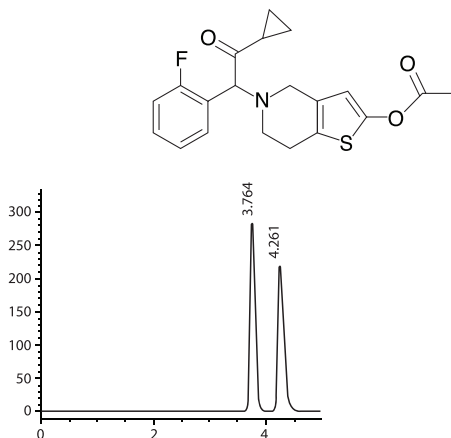
## Prasugrel

**Column:** Whelk O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (60/40)  
Hexane/IPA  
**Flow Rate:** 2.0 mL/min  
**Detection:** UV 254 nm  
**k'**: 4.96  
 **$\alpha$ :** 1.22  
**CAS #:** 150322-43-3  
**Catalog #:** 1-780101-300,  
1-780201-300



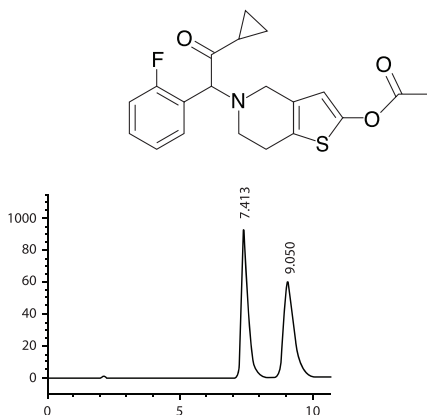
## Prasugrel

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (85/15)  
Hexane/Ethanol  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**k'**: 0.95  
 **$\alpha$ :** 1.27  
**CAS #:** 150322-43-3  
**Catalog #:** 1-783104-300



## Prasugrel

**Column:** RegisPack CLA- 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (92/8)  
Hexane/Ethanol  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**k'**: 2.84  
 **$\alpha$ :** 1.30  
**CAS #:** 150322-43-3  
**Catalog #:** 1-793104-300



## Praziquantel

**Column:** (R,R) Whelk-O 1,  
10  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (80/20)  
Hexane/Ethanol

**Flow Rate:** 2.0 mL/min

**Detection:** UV 220 nm

**k'**: 6.28

**$\alpha$ :** 1.52

**Catalog #:** 1-786515-300



## Praziquantel

**Column:** (S,S) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (65/35)  
 $\text{CO}_2/\text{CH}_3\text{OH}$

**Flow Rate:** 4.0 mL/min

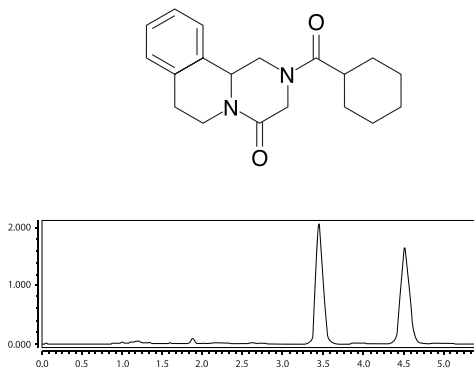
**Temperature:** 40  $^\circ\text{C}$

**Detection:** UV 220 nm

**k'**: 3.61

**$\alpha$ :** 1.49

**Catalog #:** 1-780101-300



## Praziquantel

**Column:** RegisPack,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (50/50)

Hexane/IPA

**Flow Rate:** 1.5 mL/min

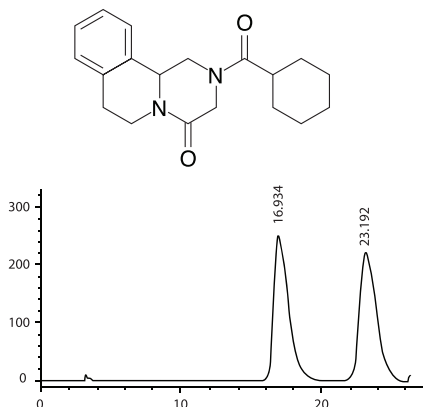
**Detection:** UV 220 nm

**k'**: 1.34

**$\alpha$ :** 1.91

**CAS #:** 55268-74-1

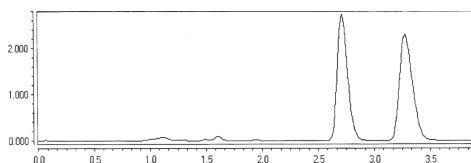
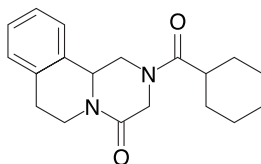
**Catalog #:** 1-783104-300





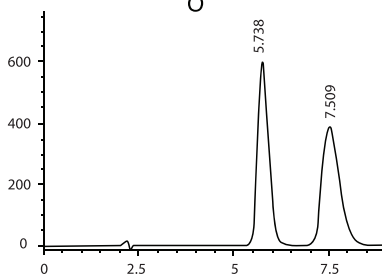
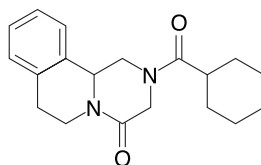
## Praziquantel

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (70/30)  
CO<sub>2</sub>/IPA  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40 °C  
**Pressure:** 124 bar  
**Detection:** UV 220 nm  
**k'**: 2.61  
 **$\alpha$ :** 1.29  
**Catalog #:** 1-783104-300



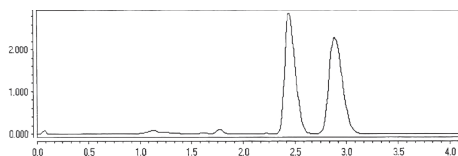
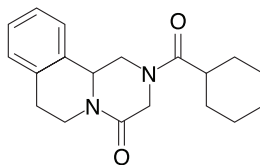
## Praziquantel

**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (65/35)  
Hexane/IPA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
**Run Time:**  
**k'**: 2.02  
 **$\alpha$ :** 1.46  
**CAS #:** 55268-74-1  
**Catalog #:** 1-784104-300



## Praziquantel

**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (75/25)  
CO<sub>2</sub>/IPA  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40 °C  
**Pressure:** 126 bar  
**Detection:** UV 220 nm  
**k'**: 2.26  
 **$\alpha$ :** 1.27  
**Catalog #:** 1-784104-300



## Prilocaine

**Column:** Reflect I-Cellulose B,  
5  $\mu$ m, 25 cm x 4.6 mm

**Mobile Phase:** (90/10/0.1)

Hexane/IPA/DEA

**Flow Rate:** 1.5 mL/min

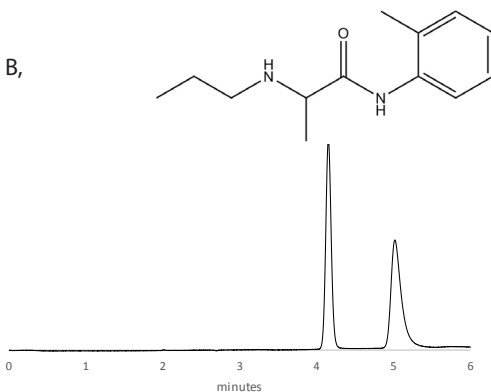
**Detection:** UV 254 nm

**k'**: 1.07

**$\alpha$ :** 1.40

**CAS #:** 721-50-6

**Catalog #:** 1-592204-300



## Prilocaine

**Column:** Reflect I-Cellulose C,  
5  $\mu$ m, 25 cm x 4.6 mm

**Mobile Phase:** (90/10/0.1)

Hexane/IPA/DEA

**Flow Rate:** 1.5 mL/min

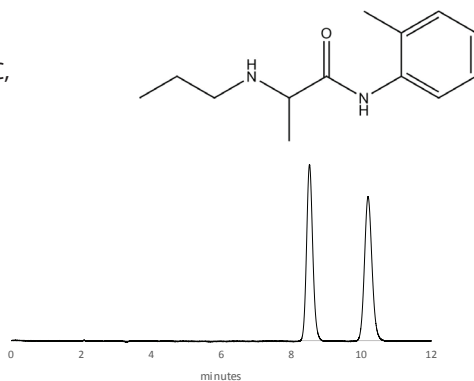
**Detection:** UV 254 nm

**k'**: 3.25

**$\alpha$ :** 1.26

**CAS #:** 721-50-6

**Catalog #:** 1-593204-300



## Prilocaine

**Column:** Reflect C-Cellulose B,  
5  $\mu$ m, 25 cm x 4.6 mm

**Mobile Phase:** (90/10/0.1)

Hexane/IPA/DEA

**Flow Rate:** 1.5 mL/min

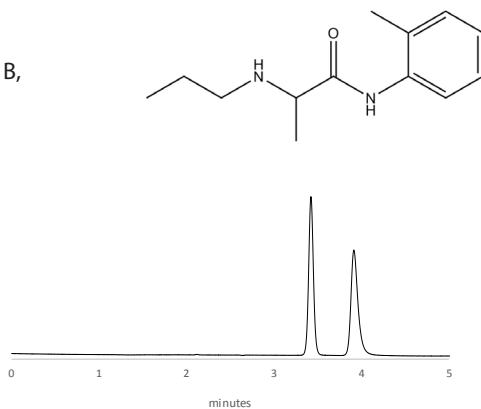
**Detection:** UV 254 nm

**k'**: 0.71

**$\alpha$ :** 1.35

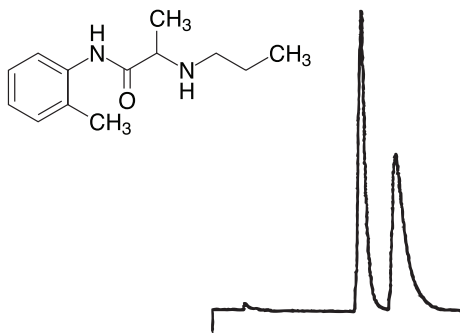
**CAS #:** 721-50-6

**Catalog #:** 1-590204-300



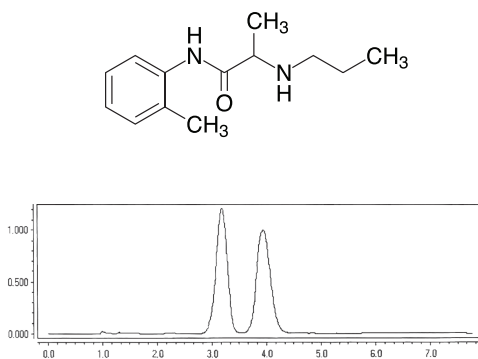
## Prilocaine

**Column:** (S,S) ULMO,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (99/1)  
Hexane/Ethanol + 0.01 M  
Ammonium Acetate  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 15.0 min  
**k'**: 5.70  
 **$\alpha$** : 1.28  
**Catalog #:** 1-787100-300



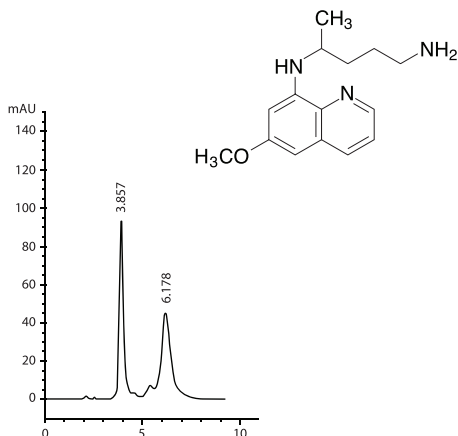
## Prilocaine

**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (95/5)  
 $\text{CO}_2$ /IPA + 0.5% DEA  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40  $^\circ\text{C}$   
**Pressure:** 125 bar  
**Detection:** UV 254 nm  
**k'**: 3.26  
 **$\alpha$** : 1.31  
**Catalog #:** 1-784104-300



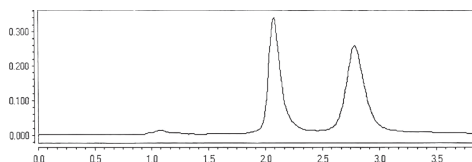
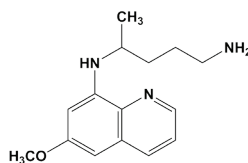
## Primaquine

**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (80/20)  
Hexane/Ethanol + 0.1% DEA  
+ 0.1% Acetic Acid  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**k'**: 1.03  
 **$\alpha$** : 2.19  
**CAS #:** 90-34-6  
**Catalog #:** 1-784104-300



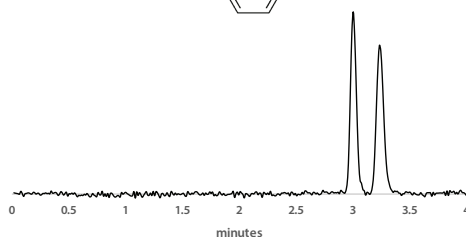
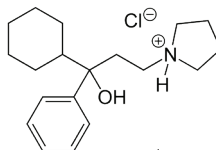
## Primaquine

**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (75/25)  
CO<sub>2</sub>/Ethanol + 0.5% DEA  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40 °C  
**Pressure:** 125 bar  
**Detection:** UV 254 nm  
**k'**: 1.77  
 **$\alpha$ :** 1.53  
**Catalog #:** 1-784104-300



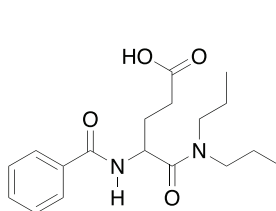
## Procyclidine

**Column:** Reflect C-Amylose A,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (99/1/0.1)  
Hexane/IPA/DEA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 28 nm  
**k'**: 0.48  
 **$\alpha$ :** 1.27  
**CAS #:** 77-37-2  
**Catalog #:** 1-580204-300



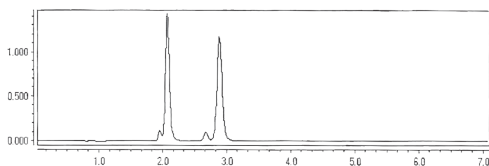
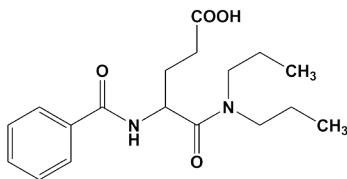
## Proglumide

**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (75/25)  
Hexane/IPA + 0.1% HOAc  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 10 min  
**k'**: 1.54  
 **$\alpha$ :** 1.49  
**Catalog #:** 1-780101-300,  
1-780201-300



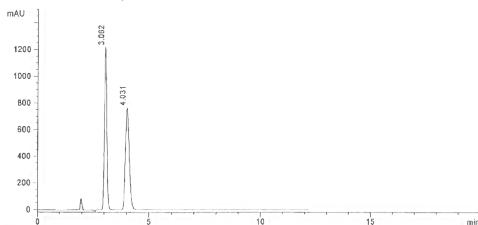
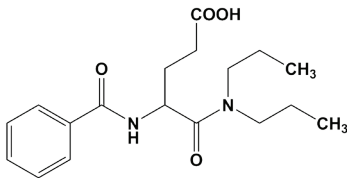
## Proglumide

**Column:** (S,S) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (75/25)  
 $\text{CO}_2$ /Ethanol + 0.5% Acetic Acid  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40  $^\circ\text{C}$   
**Pressure:** 125 bar  
**Detection:** UV 254 nm  
 **$k'$ :** 1.77  
 **$\alpha$ :** 1.61  
**Catalog #:** 1-780101-300



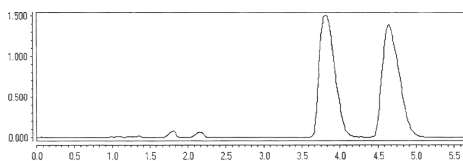
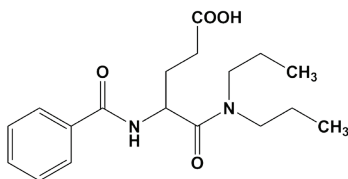
## Proglumide

**Column:** RegisCell,  
3  $\mu\text{m}$ , 15 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
Hexane/Ethanol + 0.1 TFA  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 245 nm  
 **$k'$ :** 0.76  
 **$\alpha$ :** 1.74  
**Catalog #:** 1-784504-300



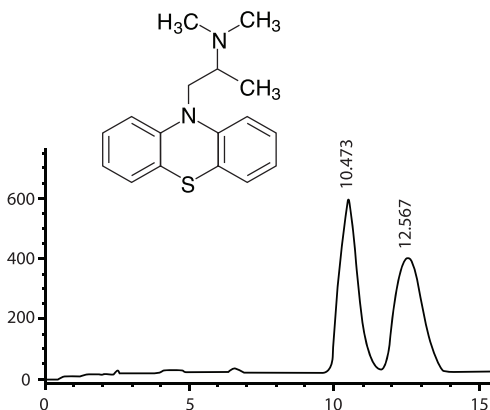
## Proglumide

**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (94/6)  
 $\text{CO}_2$ / $\text{CH}_3\text{OH}$  + 0.5% DEA  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40  $^\circ\text{C}$   
**Pressure:** 125 bar  
**Detection:** UV 245 nm  
 **$k'$ :** 4.08  
 **$\alpha$ :** 1.27  
**Catalog #:** 1-784104-300



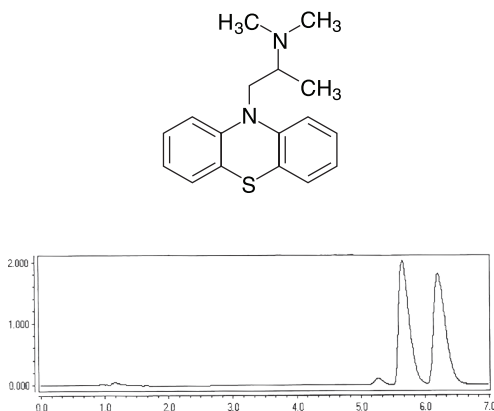
## Promethazine

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (99.5/5)  
Hexane/IPA + 0.1% DEA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 12.0 min  
**k':** 4.56  
 **$\alpha$ :** 1.24  
**CAS #:** 60-87-7  
**Catalog #:** 1-783104-300



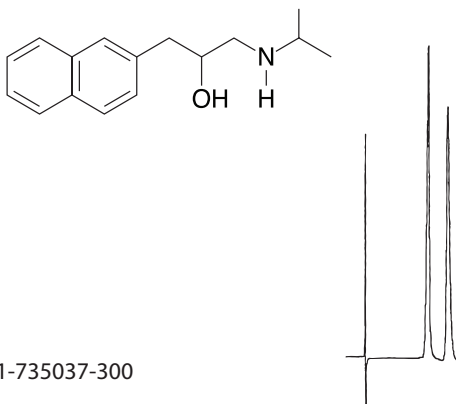
## Promethazine

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
 $\text{CO}_2$ /IPA + 0.5% DEA  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40  $^\circ\text{C}$   
**Pressure:** 125 bar  
**Detection:** UV 254 nm  
**k':** 6.53  
 **$\alpha$ :** 1.11  
**Catalog #:** 1-783104-300



## Pronethalol

**Column:**  $\alpha$ -Burke 2,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
 $\text{CH}_2\text{Cl}_2$ /EtOH  
15 mM  $\text{NH}_4\text{OAc}$   
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 15 min  
**k':** 3.26  
 **$\alpha$ :** 1.31  
**Reference:** 30  
**Catalog #:** 1-735035-300, 1-735037-300



## Propafenone

**Column:** (R,R) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (47/47/6)

$\text{CH}_2\text{Cl}_2/\text{Hexane}/$

Ethanol + 0.01 M

Ammonium Acetate

**Flow Rate:** 1.5 mL/min

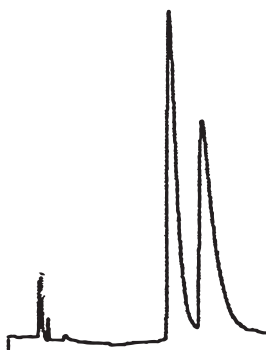
**Detection:** UV 254 nm

**Run Time:** 11.0 min

**$k'$ :** 3.99

**$\alpha$ :** 1.25

**Catalog #:** 1-780201-300



## Propafenone

**Column:** RegisPack,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** 100%

Methanol + 0.1% DEA

**Flow Rate:** 1.0 mL/min

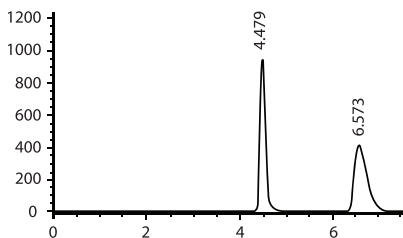
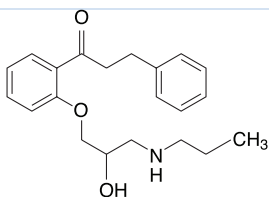
**Detection:** UV 254 nm

**$k'$ :** 0.54

**$\alpha$ :** 2.33

**CAS #:** 54063-53-5

**Catalog #:** 1-783104-300



## Propafenone

**Column:** RegisPack,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (85/15)

$\text{CO}_2/\text{IPA}$  + 0.5% DEA

**Flow Rate:** 4.0 mL/min

**Temperature:** 40  $^\circ\text{C}$

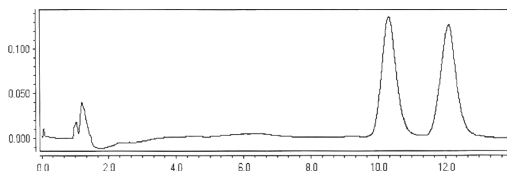
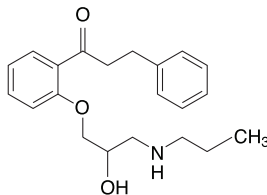
**Pressure:** 125 bar

**Detection:** UV 254 nm

**$k'$ :** 12.77

**$\alpha$ :** 1.19

**Catalog #:** 1-783104-300



## Propranolol

**Column:** Reflect I-Cellulose B,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (80/20/0.1)  
Hexane/IPA/DEA

**Flow Rate:** 1.5 mL/min

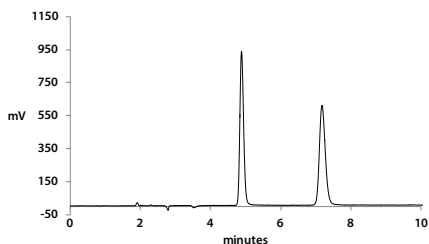
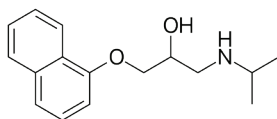
**Detection:** UV 230 nm

**k'**: 1.55

**$\alpha$ :** 1.77

**CAS#:** 525-66-6

**Catalog #:** 1-592204-300



## Propranolol

**Column:**  $\alpha$ -Burke 2,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (85/15)

$\text{CH}_2\text{Cl}_2/\text{EtOH}$

15mM  $\text{NH}_4\text{OAc}$

**Flow Rate:** 1.0 mL/min

**Detection:** UV 254 nm

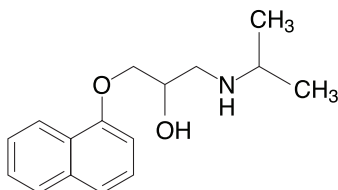
**Run Time:** 16 min

**Reference:** 30

**k'**: 2.04

**$\alpha$ :** 1.52

**Catalog #:** 1-735035-300, 1-735037-300



## Propranolol

**Column:** (3R,4S) Pirkle 1-J,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (80/20)

$\text{CH}_2\text{Cl}_2/\text{Ethanol} + 0.04\text{M}$

Ammonium Acetate

**Flow Rate:** 1.0 mL/min

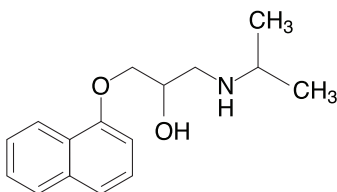
**Detection:** UV 254 nm

**Run Time:** 6.5 min

**k'**: 0.80

**$\alpha$ :** 1.80

**Catalog #:** 1-731044-300





## Pyranoquinolones

*2-amino-4-(4-hydroxyphenyl)-5-oxo-5,6-dihydro-4H-pyrano[3,2-c]quinoline-3-carbonitrile*

**Column:** (S,S) Whelk-O 1,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** 100%

Methanol

**Flow Rate:** 1.5 mL/min

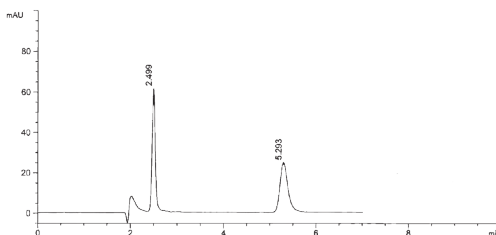
**Detection:** UV 220 nm

**k'**<sub>1</sub>: 0.32

**k'**<sub>2</sub>: 1.79

**$\alpha$** : 5.59

**Catalog #:** 1-780101-300



## Pyranoquinolones

*2-amino-4-(4-hydroxyphenyl)-5-oxo-5,6-dihydro-4H-pyrano[3,2-c]quinoline-3-carbonitrile*

**Column:** RegisPack,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (60/40)

Hexane/Ethanol

**Flow Rate:** 1.5 mL/min

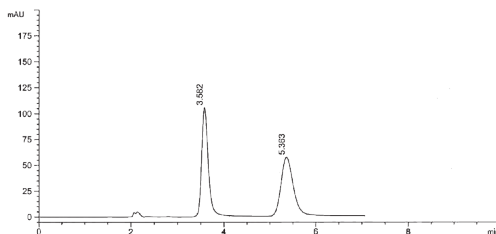
**Detection:** UV 220 nm

**k'**<sub>1</sub>: 0.89

**k'**<sub>2</sub>: 1.82

**$\alpha$** : 2.04

**Catalog #:** 1-783104-300



## Pyranoquinolones

*2-amino-4-(4-hydroxyphenyl)-5-oxo-5,6-dihydro-4H-pyrano[3,2-c]quinoline-3-carbonitrile*

**Column:** RegisPack, 5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (75/25) CO<sub>2</sub>/CH<sub>3</sub>OH

**Flow Rate:** 4.0 mL/min

**Temperature:** 40 °C

**Pressure:** 125 bar

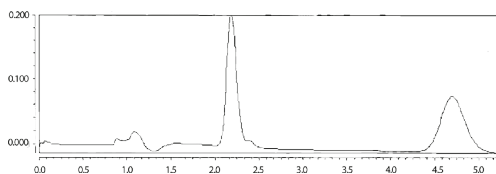
**Detection:** UV 220 nm

**k'**<sub>1</sub>: 1.92

**k'**<sub>2</sub>: 5.27

**$\alpha$** : 2.74

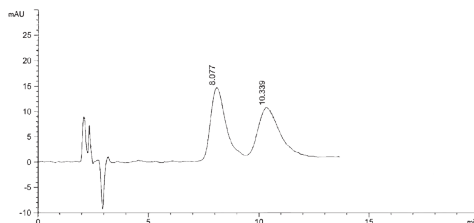
**Catalog #:** 1-783104-300



## Pyranoquinolones

*2-amino-4-(4-hydroxyphenyl)-5-oxo-5,6-dihydro-4H-pyrano[3,2-c]quinoline-3-carbonitrile*

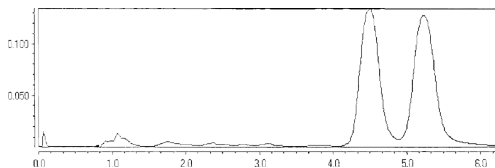
**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (80/20)  
Hexane/IPA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
**k'1:** 3.25  
**k'2:** 4.44  
 **$\alpha$ :** 1.37  
**Catalog #:** 1-784104-300



## Pyranoquinolones

*2-amino-4-(4-hydroxyphenyl)-5-oxo-5,6-dihydro-4H-pyrano[3,2-c]quinoline-3-carbonitrile*

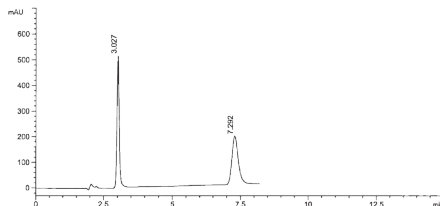
**Column:** RegisCell, 5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (75/25) CO<sub>2</sub>/CH<sub>3</sub>OH  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40 °C  
**Pressure:** 124 bar  
**Detection:** UV 220 nm  
**k'1:** 5.01  
**k'2:** 5.97  
 **$\alpha$ :** 1.19  
**Catalog #:** 1-784104-300



## Pyranoquinolones

*2-amino-4-(4-methoxyphenyl)-5-oxo-5,6-dihydro-4H-pyrano[3,2-c]quinoline-3-carbonitrile*

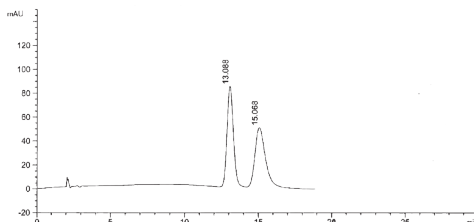
**Column:** (S,S) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** 100% Methanol  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
**k'1:** 0.59  
**k'2:** 2.84  
 **$\alpha$ :** 4.81  
**Catalog #:** 1-780101-300



## Pyranoquinolones

*2-amino-4-(4-methoxyphenyl)-5-oxo-5,6-dihydro-4H-pyrano[3,2-c]quinoline-3-carbonitrile*

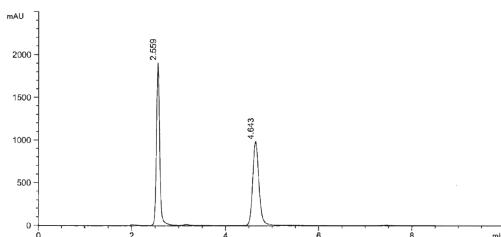
**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (80/20)  
Hexane/Ethanol  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
**k'**<sub>1</sub>: 5.89  
**k'**<sub>2</sub>: 6.93  
 **$\alpha$** : 1.18  
**Catalog #:** 1-783104-300



## Pyranoquinolones

*2-amino-4-(3,4-difluorophenyl)-5-oxo-5,6-dihydro-4H-pyrano[3,2-c]quinoline-3-carbonitrile*

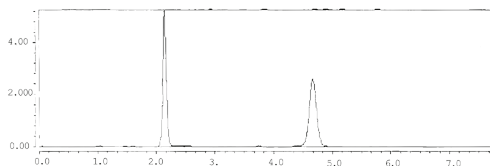
**Column:** (S,S) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** 100%  
Methanol  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
**k'**<sub>1</sub>: 0.35  
**k'**<sub>2</sub>: 1.44  
 **$\alpha$** : 4.11  
**Catalog #:** 1-780101-300



## Pyranoquinolones

*2-amino-4-(3,4-difluorophenyl)-5-oxo-5,6-dihydro-4H-pyrano[3,2-c]quinoline-3-carbonitrile*

**Column:** (S,S) Whelk-O 1, 5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (60/40) CO<sub>2</sub>/CH<sub>3</sub>OH  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40 °C  
**Pressure:** 124 bar  
**Detection:** UV 220 nm  
**k'**<sub>1</sub>: 1.85  
**k'**<sub>2</sub>: 5.23  
 **$\alpha$** : 2.83  
**Catalog #:** 1-780101-300



## Pyranoquinolones

*2-amino-4-(3,4-difluorophenyl)-5-oxo-5,6-dihydro-4H-pyrano[3,2-c]quinoline-3-carbonitrile*

**Column:** RegisPack,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (80/20)

Hexane/Ethanol

**Flow Rate:** 1.5 mL/min

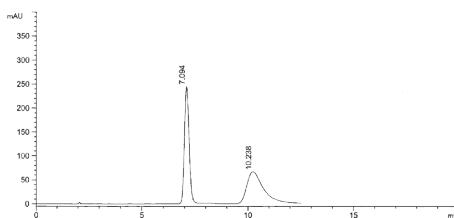
**Detection:** UV 220 nm

**k'1:** 2.73

**k'2:** 4.39

**$\alpha$ :** 1.61

**Catalog #:** 1-783104-300



## Pyranoquinolones

*2-amino-4-(3,4-difluorophenyl)-5-oxo-5,6-dihydro-4H-pyrano[3,2-c]quinoline-3-carbonitrile*

**Column:** RegisPack, 5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (70/30) CO<sub>2</sub>/CH<sub>3</sub>OH

**Flow Rate:** 4.0 mL/min

**Temperature:** 40 °C

**Pressure:** 125 bar

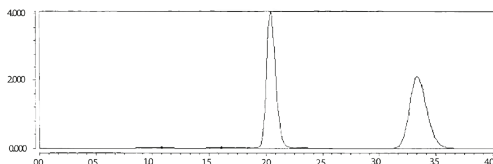
**Detection:** UV 220 nm

**k'1:** 1.72

**k'2:** 3.45

**$\alpha$ :** 2.01

**Catalog #:** 1-783104-300



## Pyranoquinolones

*2-amino-4-(3,4-difluorophenyl)-5-oxo-5,6-dihydro-4H-pyrano[3,2-c]quinoline-3-carbonitrile*

**Column:** RegisCell,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (85/15)

Hexane/IPA

**Flow Rate:** 1.5 mL/min

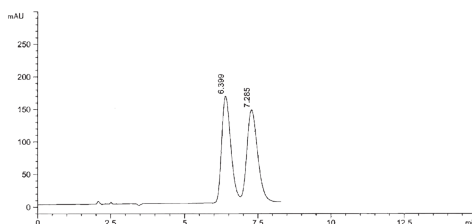
**Detection:** UV 220 nm

**k'1:** 2.37

**k'2:** 2.83

**$\alpha$ :** 1.19

**Catalog #:** 1-784104-300



## Pyranoquinolones

*2-amino-4-(2,3-dimethoxyphenyl)-5-oxo-5,6-dihydro-4H-pyrano[3,2-c]quinoline-3-carbonitrile*

**Column:** (S,S) Whelk-O 1,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** 100%

Methanol

**Flow Rate:** 1.5 mL/min

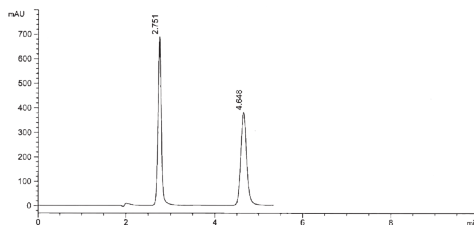
**Detection:** UV 220 nm

**k'**<sub>1</sub>: 0.45

**k'**<sub>2</sub>: 1.45

**$\alpha$** : 3.22

**Catalog #:** 1-780101-300



## Pyranoquinolones

*2-amino-4-(2,3-dimethoxyphenyl)-5-oxo-5,6-dihydro-4H-pyrano[3,2-c]quinoline-3-carbonitrile*

**Column:** Whelk-O 1, 5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (60/40) CO<sub>2</sub>/CH<sub>3</sub>OH

**Flow Rate:** 4.0 mL/min

**Temperature:** 40 °C

**Pressure:** 125 bar

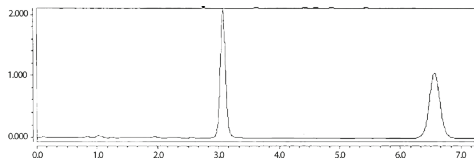
**Detection:** UV 220 nm

**k'**<sub>1</sub>: 3.11

**k'**<sub>2</sub>: 7.76

**$\alpha$** : 2.50

**Catalog #:** 1-780101-300



## Pyranoquinolones

*2-amino-4-(2,3-dimethoxyphenyl)-5-oxo-5,6-dihydro-4H-pyrano[3,2-c]quinoline-3-carbonitrile*

**Column:** RegisPack,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (60/40)

Hexane/Ethanol

**Flow Rate:** 1.5 mL/min

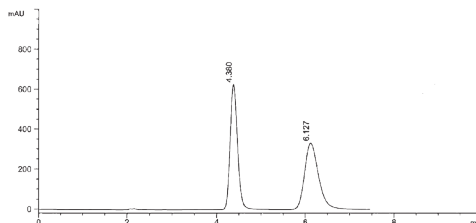
**Detection:** UV 220 nm

**k'**<sub>1</sub>: 1.31

**k'**<sub>2</sub>: 2.22

**$\alpha$** : 1.69

**Catalog #:** 1-783104--300



## Pyranoquinolones

*2-amino-4-(2,3-dimethoxyphenyl)-5-oxo-5,6-dihydro-4H-pyrano[3,2-c]quinoline-3-carbonitrile*

**Column:** RegisPack, 5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (60/40)  $\text{CO}_2/\text{CH}_3\text{OH}$

**Flow Rate:** 4.0 mL/min

**Temperature:** 40  $^\circ\text{C}$

**Pressure:** 125 bar

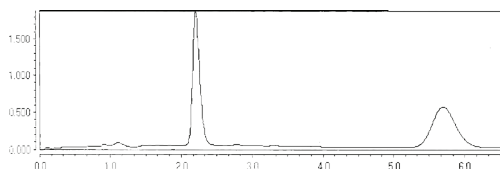
**Detection:** UV 220 nm

**k':** 1.95

**k'':** 6.60

**$\alpha$ :** 3.38

**Catalog #:** 1-783104-300



## Pyranoquinolones

*2-amino-4-(2,3-dimethoxyphenyl)-5-oxo-5,6-dihydro-4H-pyrano[3,2-c]quinoline-3-carbonitrile*

**Column:** RegisCell,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (80/20)

Hexane/IPA

**Flow Rate:** 1.5 mL/min

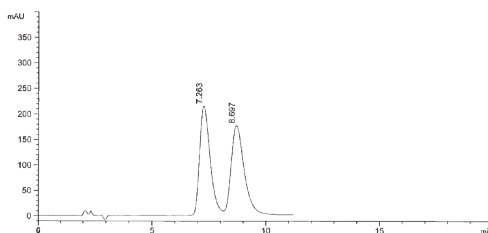
**Detection:** UV 220 nm

**k':** 2.82

**k'':** 3.58

**$\alpha$ :** 1.27

**Catalog #:** 1-784104-300



## Pyranoquinolones

*2-amino-4-(2,5-dimethoxyphenyl)-5-oxo-5,6-dihydro-4H-pyrano[3,2-c]quinoline-3-carbonitrile*

**Column:** (S,S) Whelk-O 1,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** 100%

Methanol

**Flow Rate:** 1.5 mL/min

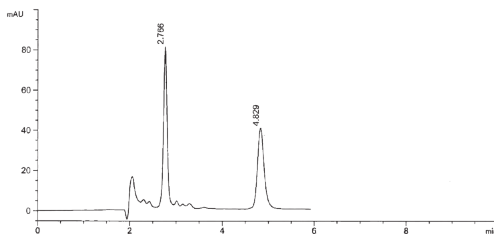
**Detection:** UV 220 nm

**k':** 0.46

**k'':** 1.54

**$\alpha$ :** 3.35

**Catalog #:** 1-780101-300



## Pyranoquinolones

*2-amino-4-(2,5-dimethoxyphenyl)-5-oxo-5,6-dihydro-4H-pyrano[3,2-c]quinoline-3-carbonitrile*

**Column:** Whelk-O 1, 5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (60/40)  $\text{CO}_2/\text{CH}_3\text{OH}$

**Flow Rate:** 4.0 mL/min

**Temperature:** 40  $^\circ\text{C}$

**Pressure:** 124 bar

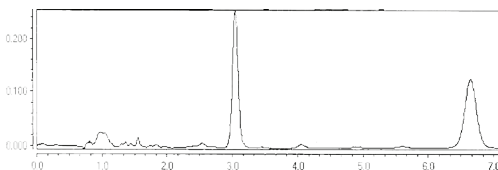
**Detection:** UV 220 nm

**$k'_1$ :** 3.05

**$k'_2$ :** 7.87

**$\alpha$ :** 2.58

**Catalog #:** 1-780101-300



## Pyranoquinolones

*2-amino-4-(2,5-dimethoxyphenyl)-5-oxo-5,6-dihydro-4H-pyrano[3,2-c]quinoline-3-carbonitrile*

**Column:** RegisPack, 5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (60/40)

Hexane/Ethanol

**Flow Rate:** 1.5 mL/min

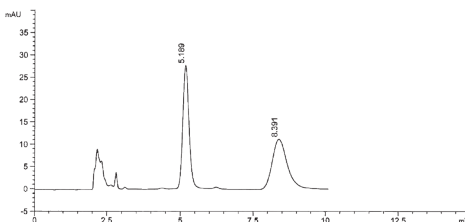
**Detection:** UV 220 nm

**$k'_1$ :** 1.73

**$k'_2$ :** 3.42

**$\alpha$ :** 1.98

**Catalog #:** 1-783104-300



## Pyranoquinolones

*2-amino-4-(2,5-dimethoxyphenyl)-5-oxo-5,6-dihydro-4H-pyrano[3,2-c]quinoline-3-carbonitrile*

**Column:** RegisPack, 5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (60/40)  $\text{CO}_2/\text{CH}_3\text{OH}$

**Flow Rate:** 4.0 mL/min

**Temperature:** 40  $^\circ\text{C}$

**Pressure:** 125 bar

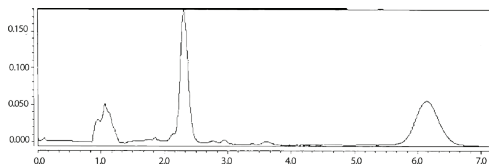
**Detection:** UV 220 nm

**$k'_1$ :** 2.09

**$k'_2$ :** 7.19

**$\alpha$ :** 3.44

**Catalog #:** 1-783104-300



## Pyranoquinolones

*2-amino-5-oxo-4-[4-(trifluoromethyl)phenyl]-5,6-dihydro-4H-pyrano[3,2-c]quinoline-3-carbonitrile*

**Column:** (S,S) Whelk-O 1,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** 100%

Methanol

**Flow Rate:** 1.5 mL/min

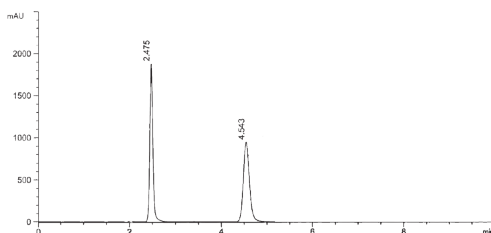
**Detection:** UV 220 nm

**k'**<sub>1</sub>: 0.30

**k'**<sub>2</sub>: 1.39

**$\alpha$** : 4.63

**Catalog #:** 1-780101-300



## Pyranoquinolones

*2-amino-5-oxo-4-[4-(trifluoromethyl)phenyl]-5,6-dihydro-4H-pyrano[3,2-c]quinoline-3-carbonitrile*

**Column:** RegisPack,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (80/20)

Hexane/Ethanol

**Flow Rate:** 1.5 mL/min

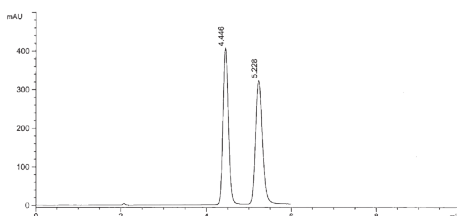
**Detection:** UV 220 nm

**k'**<sub>1</sub>: 1.34

**k'**<sub>2</sub>: 1.75

**$\alpha$** : 1.31

**Catalog #:** 1-783104-300



## Pyranoquinolones

*2-amino-5-oxo-4-[4-(trifluoromethyl)phenyl]-5,6-dihydro-4H-pyrano[3,2-c]quinoline-3-carbonitrile*

**Column:** RegisPack, 5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (70/30) CO<sub>2</sub>/CH<sub>3</sub>OH

**Flow Rate:** 4.0 mL/min

**Temperature:** 40 °C

**Pressure:** 126 bar

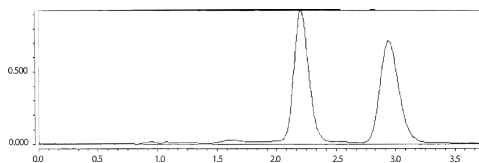
**Detection:** UV 220 nm

**k'**<sub>1</sub>: 1.95

**k'**<sub>2</sub>: 2.92

**$\alpha$** : 1.50

**Catalog #:** 1-783104-300

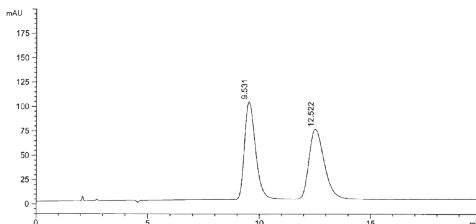




## Pyranoquinolones

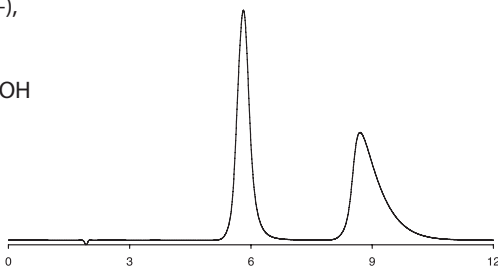
2-amino-5-oxo-4-[4-(trifluoromethyl)phenyl]-5,6-dihydro-4H-pyrano[3,2-c]quinoline-3-carbonitrile

**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
Hexane/IPA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
**k':** 4.02  
**k':** 5.59  
 **$\alpha$ :** 1.39  
**Catalog #:** 1-784104-300



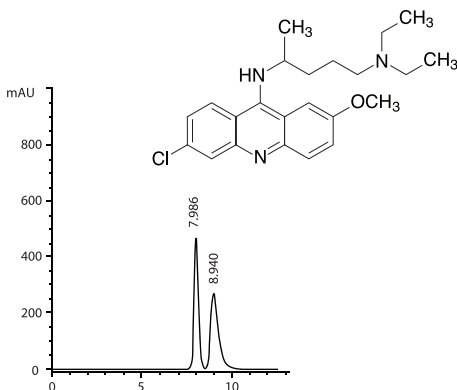
## DL-Pyridylalanine

**Column:** ChiroSil ME RCA(+),  
5  $\mu\text{m}$ , 15 cm x 4.6 mm  
**Mobile Phase:** (30/70)  
0.01% Phosphoric Acid/MeOH  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 210 nm  
**Temperature:** 20  $^{\circ}\text{C}$   
**k':** 2.03  
 **$\alpha$ :** 1.74  
**Catalog #:** 1-788001-300



## Quinacrine

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (97/3)  
Hexane/Ethanol + 0.1% DEA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 12.0 min  
**k':** 3.20  
 **$\alpha$ :** 1.16  
**CAS #:** 83-89-6  
**Catalog #:** 1-783104-300



## 4(3H)-Quinazolone Derivatives

**Column:** (S,S) Whelk-O 1,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (80/20)

Hexane/Ethanol

**Flow Rate:** 1.0 mL/min

**Detection:** UV 225 nm

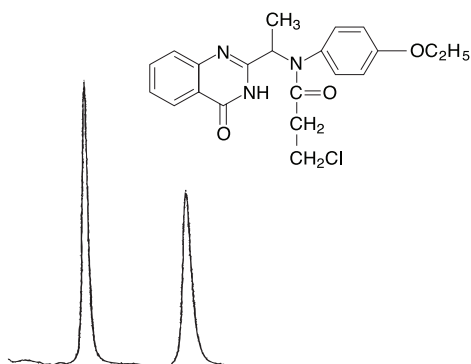
**Run Time:** 17.0 min

**k'**: 2.95

**$\alpha$ :** 1.62

**Reference:** 53

**Catalog #:** 1-780101-300



## 4(3H)-Quinazolone Derivatives

**Column:** (S,S) Whelk-O 1,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (80/20)

Hexane/Ethanol

**Flow Rate:** 1.0 mL/min

**Detection:** UV 225 nm

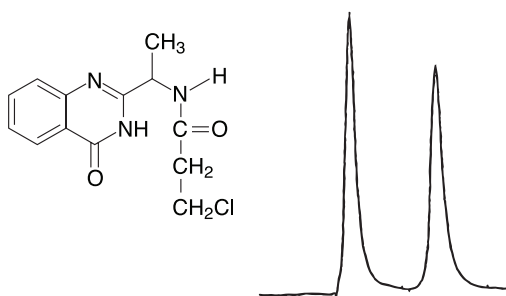
**Run Time:** 15.0 min

**k'**: 3.19

**$\alpha$ :** 1.37

**Reference:** 53

**Catalog #:** 1-780101-300



## 4(3H)-Quinazolone Derivatives

**Column:** (S,S) Whelk-O 1,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (90/10)

Hexane/IPA

**Flow Rate:** 1.0 mL/min

**Detection:** UV 225 nm

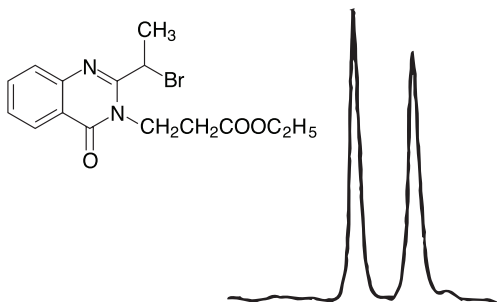
**Run Time:** 15.0 min

**k'**: 3.54

**$\alpha$ :** 1.19

**Reference:** 53

**Catalog #:** 1-780101-300



## 4(3H)-Quinazolone Derivatives

**Column:** (S,S) Whelk-O 1,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (80/20)

Hexane/Ethanol

**Flow Rate:** 1.0 mL/min

**Detection:** UV 225 nm

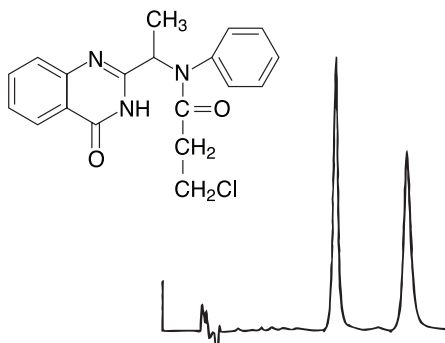
**Run Time:** 16.0 min

**k'**: 2.88

**$\alpha$ :** 1.56

**Reference:** 53

**Catalog #:** 1-780101-300



## 4(3H)-Quinazolone Derivatives

**Column:** (S,S) Whelk-O 1,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (80/20)

Hexane/Ethanol

**Flow Rate:** 1.0 mL/min

**Detection:** UV 225 nm

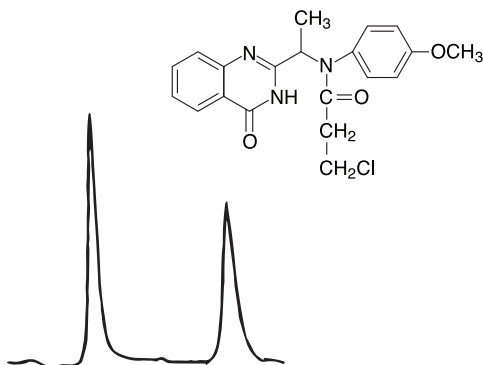
**Run Time:** 21.0 min

**k'**: 3.75

**$\alpha$ :** 1.57

**Reference:** 53

**Catalog #:** 1-780101-300



## Quizalofop-ethyl

**Column:** (R,R) DACH-DNB,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (95/5)

Hexane/IPA

**Temperature:** 20  $^{\circ}\text{C}$

**Flow Rate:** 1.0 mL/min

**Detection:** UV 254 nm

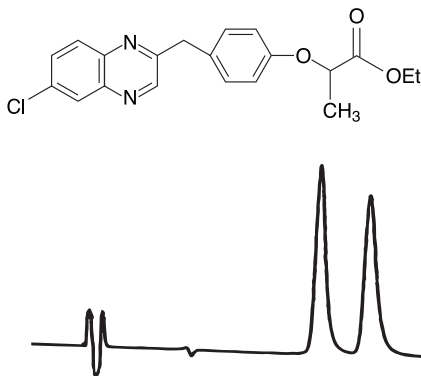
**Run Time:** 20.0 min

**k'**: 5.22

**$\alpha$ :** 1.21

**Reference:** 54

**Catalog #:** 1-788101-300



## Ranolazine

**Column:** (R,R) Whelk-O 1,

10  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (65/35)

Hexane/IPA + 35 mM

Ammonium Acetate

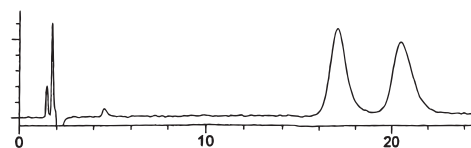
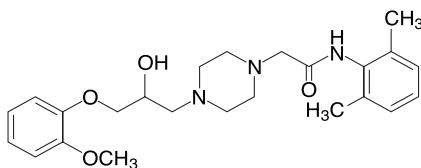
**Flow Rate:** 2.0 mL/min

**Detection:** UV 220 nm

**k'**: 11.51

**$\alpha$ :** 1.23

**Catalog #:** 1-786515-300



## Rasagaline Mesylate

**Column:** RegisPack,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (98/2)

Hexane/Ethanol

**Flow Rate:** 1.5 mL/min

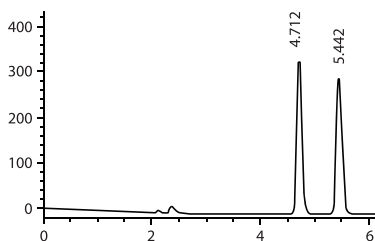
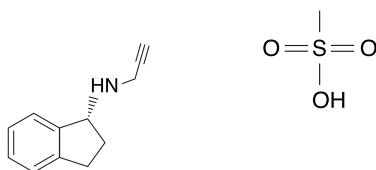
**Detection:** UV 210 nm

**k'**: 1.44

**$\alpha$ :** 1.26

**CAS #:** 161735-79-1

**Catalog #:** 1-783104-300



## Rebamipide

**Column:** (S,S) Whelk-O 2,

10  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (85/15)

Hexane/Ethanol + 0.1% TFA

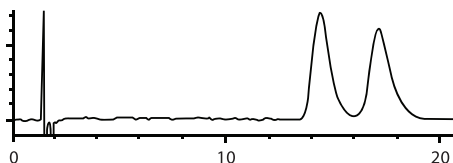
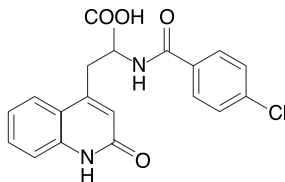
**Flow Rate:** 2.0 mL/min

**Detection:** UV 220 nm

**k'**: 9.64

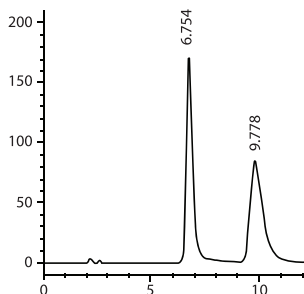
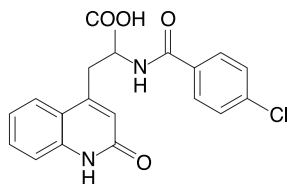
**$\alpha$ :** 1.21

**Catalog #:** 1-786415-300



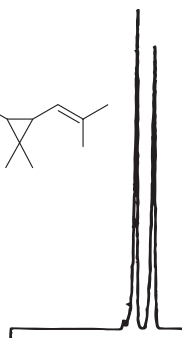
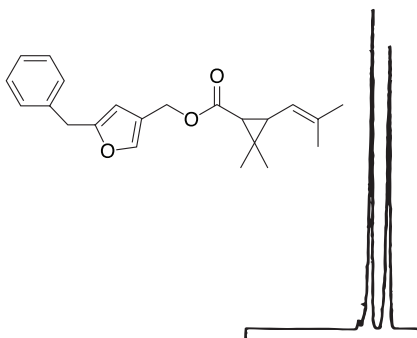
## Rebamipide

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (80/20)  
Hexane/Ethanol + 0.1% DEA  
+ 0.1% Acetic Acid  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
 **$k'$ :** 2.50  
 **$\alpha$ :** 1.63  
**CAS #:** 111911-87-6  
**Catalog #:** 1-783104-300



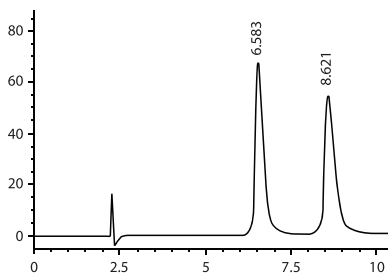
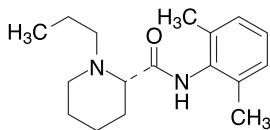
## Resmethrin

**Column:** (R,R) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** 100%  
Hexane  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 15.0 min  
 **$k'$ :** 6.30  
 **$\alpha$ :** 1.19  
**Catalog #:** 1-780201-300



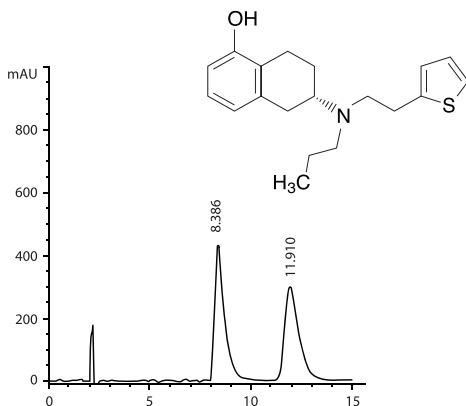
## Ropivacaine

**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (70/30)  
Hexane/IPA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
 **$k'$ :** 2.40  
 **$\alpha$ :** 1.44  
**CAS #:** 84057-95-4  
**Catalog #:** 1-780101-300,  
1-780201-300



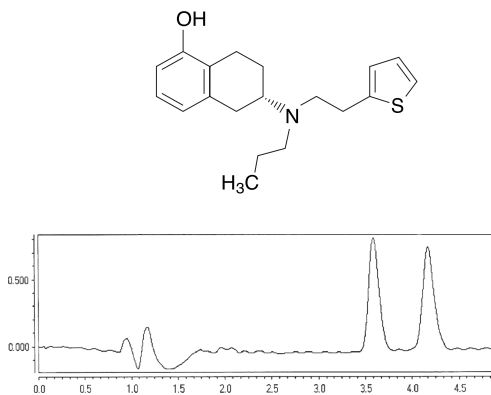
## Rotigotine

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
Hexane/Ethanol + 0.1% TFA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
**k':** 3.40  
 **$\alpha$ :** 2.94  
**CAS #:** 92206-54-7  
**Catalog #:** 1-783104-300



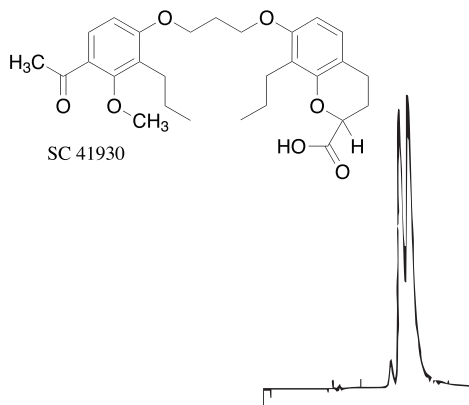
## Rotigotine

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (80/20)  
 $\text{CO}_2$ /Ethanol + 0.5% DEA  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40  $^\circ\text{C}$   
**Pressure:** 125 bar  
**Detection:** UV 220 nm  
**k':** 3.79  
 **$\alpha$ :** 1.20  
**Catalog #:** 1-783104-300



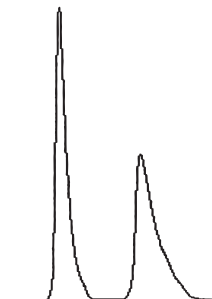
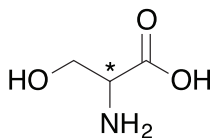
## SC 41930

**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (80/20)  
Hexane/IPA + 0.5% HOAc  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 6 min  
**k':** 1.05  
 **$\alpha$ :** 1.12  
**Reference:** 7  
**Catalog #:** 1-780101-300,  
1-780201-300



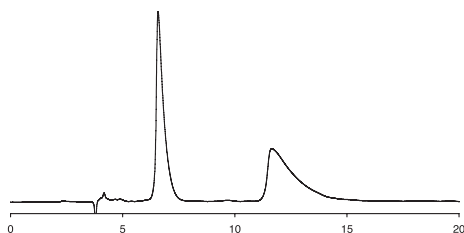
## Serine

**Column:** ChiroSil,  
5  $\mu\text{m}$ , 15 cm x 4.6 mm  
**Mobile Phase:** (84/16)  
CH<sub>3</sub>OH/H<sub>2</sub>O +5 mM HClO<sub>4</sub>  
**Flow Rate:** 0.8 mL/min  
**Detection:** UV 210 nm  
**Run Time:** 6.0 min  
**k'**: 1.37  
 **$\alpha$ :** 1.99  
**Catalog #:** 1-799001-300,  
1-799101-300



## DL-Serine

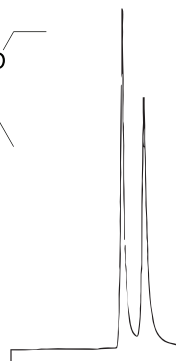
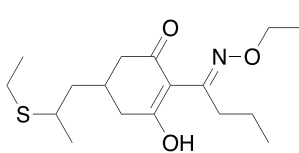
**Column:** ChiroSil ME RCA(+),  
5  $\mu\text{m}$ , 15 cm x 4.6 mm  
**Mobile Phase:** (50/50)  
5 mM HClO<sub>4</sub> Acid/MeOH  
**Flow Rate:** 0.5 mL/min  
**Detection:** UV 210 nm  
**Temperature:** 20 °C  
**k'**: 0.74  
 **$\alpha$ :** 2.82  
**Rs:** 5.87  
**Catalog #:** 1-788001-300



## Sethoxydim

*Herbicide*

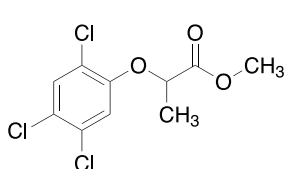
**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (98/2)  
Hexane/IPA  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 15 min  
**k'**: 6.77  
 **$\alpha$ :** 1.26  
**Catalog #:** 1-780101-300,  
1-780201-300



## Silvex Methyl

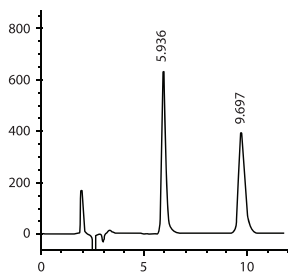
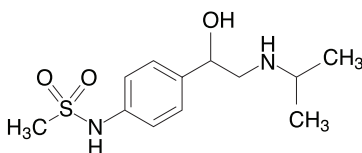
Herbicide

**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** 100% Hexane  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 15 min  
**k'**: 6.47  
 **$\alpha$ :** 1.05  
**Catalog #:** 1-780101-300,  
1-780201-300



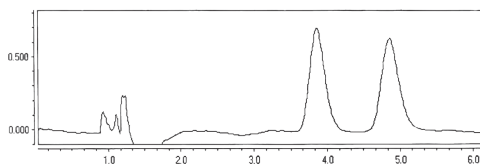
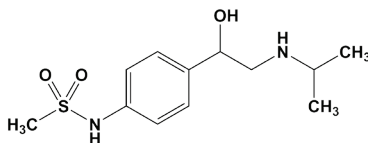
## Sotalol

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (80/20)  
Hexane/Ethanol + 0.1% DEA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
**k'**: 2.12  
 **$\alpha$ :** 1.94  
**CAS #:** 3930-20-9  
**Catalog #:** 1-783104-300



## Sotalol

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (85/15)  
CO<sub>2</sub>/Ethanol + 0.5% DEA  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40 °C  
**Pressure:** 125 bar  
**Detection:** UV 254 nm  
**k'**: 4.14  
 **$\alpha$ :** 1.32  
**Catalog #:** 1-783104-300





## Stilbene Oxide

**Column:** (S,S) Whelk-O 1,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (90/10)

Hexane/IPA

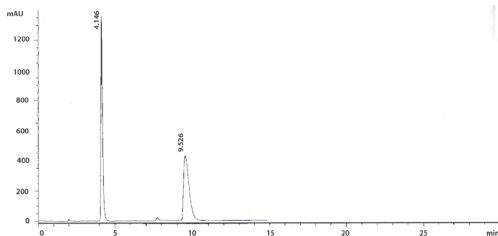
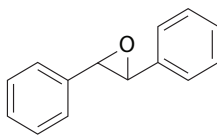
**Flow Rate:** 1.5 mL/min

**Detection:** UV 254 nm

**k':** 1.15

**$\alpha$ :** 3.42

**Catalog #:** 1-780101-300



## Stilbene Oxide

**Column:** Whelk-O 1,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (90/10)

Hexane/IPA

**Flow Rate:** 1.0 mL/min

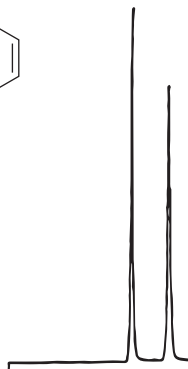
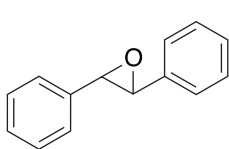
**Detection:** UV 254 nm

**k':** 0.45

**$\alpha$ :** 2.00

**Catalog #:** 1-780101-300,

1-780201-300



## TSO (trans-Stilbene Oxide)

**Column:** (S,S) Whelk-O 1,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

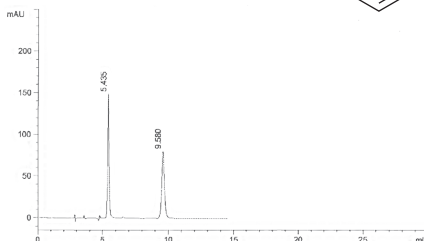
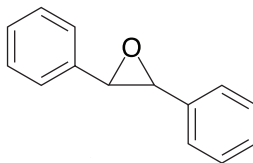
**Mobile Phase:** (90/10)

Hexane/Ethanol

**Flow Rate:** 1.0 mL/min

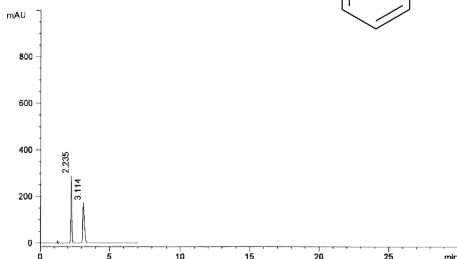
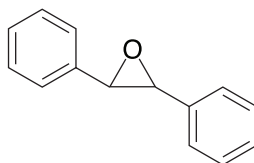
**Detection:** UV 254 nm

**Catalog #:** 1-780101-300



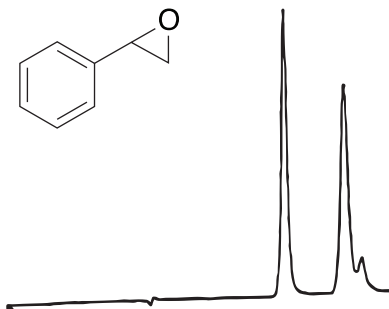
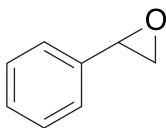
## TSO (trans-Stilbene Oxide)

**Column:** RegisPack CLA-1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
Hexane/Ethanol  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**k'**: 0.18  
 **$\alpha$ :** 3.55  
**Catalog #:** 1-793104-300



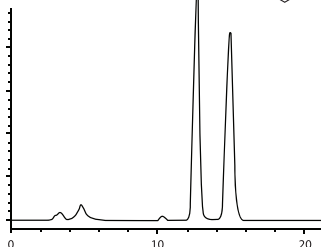
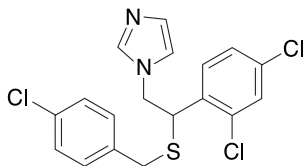
## Styrene Oxide

**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (99/1)  
Hexane/IPA  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**k'**: 1.37  
 **$\alpha$ :** 1.37  
**Catalog #:** 1-780101-300,  
1-780201-300



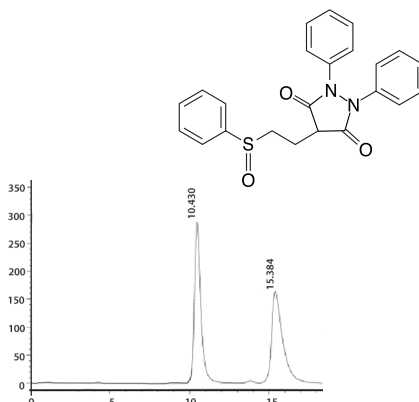
## Sulconazole

**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (72/25)  
Hexane/IPA  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**k'**: 3.17  
 **$\alpha$ :** 1.23  
**Catalog #:** 1-784104-300



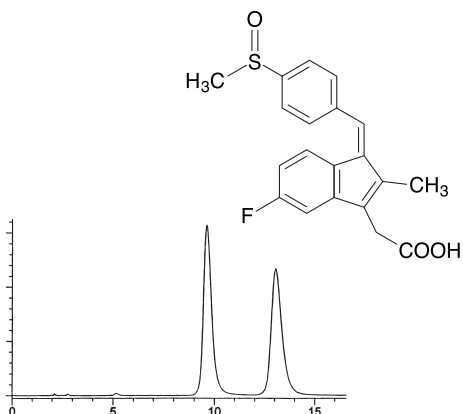
## Sulfinpyrazone

**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (75/25)  
Hexane/Ethanol  
+ 25 mM Ammonium Acetate  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 11.0 min  
**k'**: 4.40  
 **$\alpha$** : 1.58  
**CAS #:** 57-96-5  
**Catalog #:** 1-780101-300,  
1-780201-300



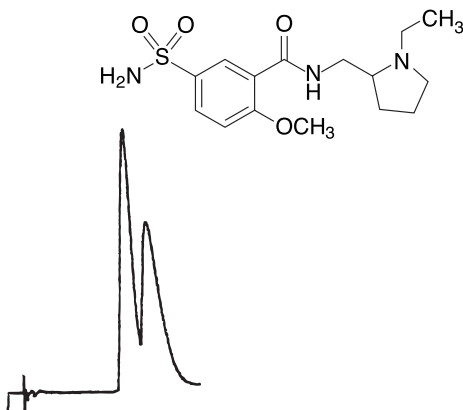
## Sulindac

**Column:** (R,R) Whelk-O 1,  
10  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (48/48/4)  
Hexane/ $\text{CH}_2\text{Cl}_2$ /IPA  
+ 0.1% Acetic Acid  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**k'**: 4.32  
 **$\alpha$** : 1.45  
**Catalog #:** 1-786515-300



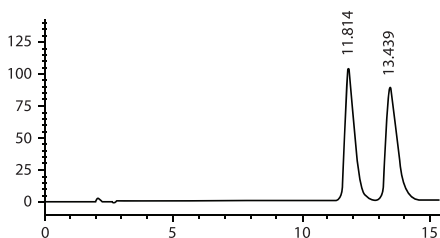
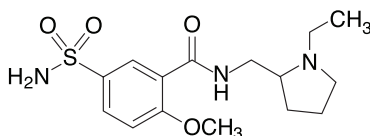
## Sulpiride

**Column:** (R,R) DACH-DNB,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (95/5)  
 $\text{CH}_2\text{Cl}_2$ /Ethanol + 0.01 M  
Ammonium Acetate  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 14.0 min  
**k'**: 5.92  
 **$\alpha$** : 1.24  
**Catalog #:** 1-788101-300



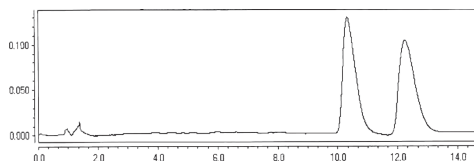
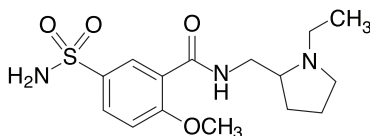
## Sulpiride

**Column:** RegisPack,  
5  $\mu$ m, 25 cm x 4.6 mm  
**Mobile Phase:** (80/20)  
Hexane/Ethanol + 0.1 % DEA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**k':** 5.22  
 **$\alpha$ :** 1.16  
**CAS #:** 15676-16-1  
**Catalog #:** 1-783104-300



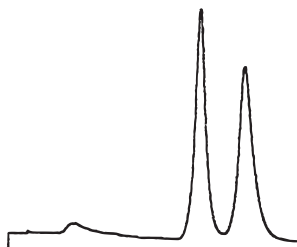
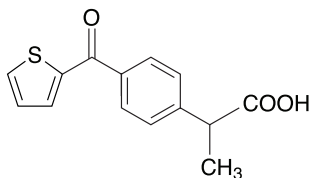
## Sulpiride

**Column:** RegisPack,  
5  $\mu$ m, 25 cm x 4.6 mm  
**Mobile Phase:** (85/15)  
CO<sub>2</sub>/CH<sub>3</sub>OH + 0.5% DEA  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40 °C  
**Pressure:** 125 bar  
**Detection:** UV 254 nm  
**k':** 12.76  
 **$\alpha$ :** 1.20  
**Catalog #:** 1-783104-300



## Suprofen

**Column:** (S,S) Whelk-O 1,  
10  $\mu$ m, 25 cm x 4.6 mm  
**Mobile Phase:** (80/20)  
Hexane/IPA  
+ 0.01 M Ammonium Acetate  
**Flow Rate:** 2.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 18.0 min  
**k':** 9.76  
 **$\alpha$ :** 1.27  
**Catalog #:** 1-786615-300



## Suprofen

**Column:** (S,S) Whelk-O 1,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (75/25)

$\text{CO}_2$ /Ethanol + 0.5% DEA

**Flow Rate:** 4.0 mL/min

**Temperature:** 40  $^\circ\text{C}$

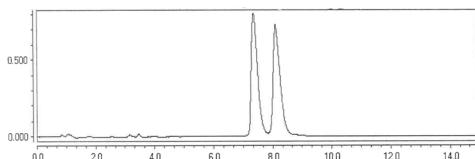
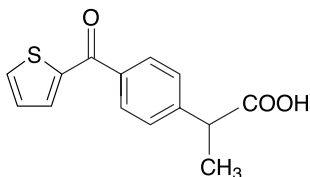
**Pressure:** 125 bar

**Detection:** UV 254 nm

**$k'$ :** 8.82

**$\alpha$ :** 1.11

**Catalog #:** 1-780101-300



## Suprofen

**Column:** Reflect I-Amylose A,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (80/20/0.1)

Hexane/Ethanol/Acetic Acid

**Flow Rate:** 1.5 mL/min

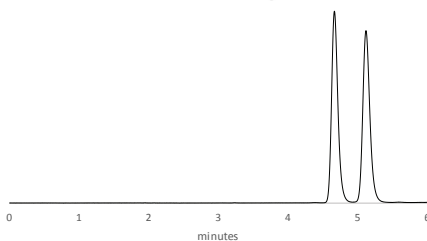
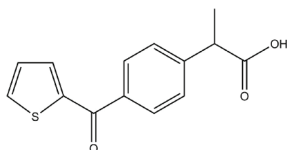
**Detection:** UV 254 nm

**$k'$ :** 1.33

**$\alpha$ :** 1.17

**CAS #:** 40828-32-5

**Catalog #:** 1-591204-300



## Suprofen

**Column:** Reflect I-Cellulose C,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (80/20/0.1)

Hexane/Ethanol/Acetic Acid

**Flow Rate:** 1.5 mL/min

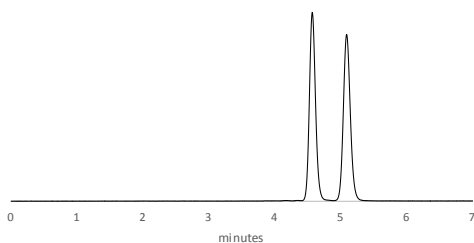
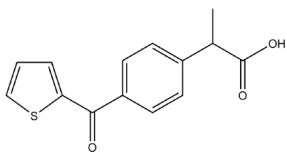
**Detection:** UV 254 nm

**$k'$ :** 1.28

**$\alpha$ :** 1.20

**CAS #:** 40828-46-4

**Catalog #:** 1-593204-300



## Suprofen

**Column:** Reflect I-Cellulose J,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (80/20/0.1)  
Hexane/Ethanol/Acetic Acid

**Flow Rate:** 1.5 mL/min

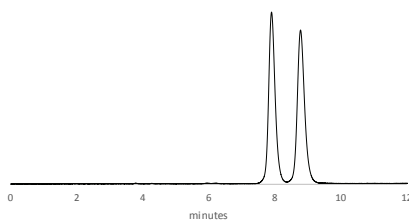
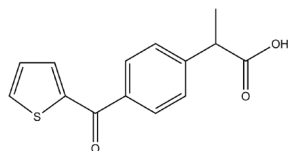
**Detection:** UV 254 nm

**k':** 2.94

**$\alpha$ :** 1.115

**CAS #:** 40828-46-4

**Catalog #:** 1-594204-300



## Tamsulosin

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (80/20)  
Hexane/Ethanol + 0.1% DEA

**Flow Rate:** 1.5 mL/min

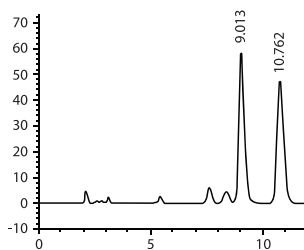
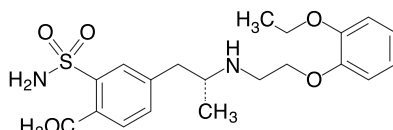
**Detection:** UV 280 nm

**k':** 3.67

**$\alpha$ :** 1.25

**CAS #:** 106133-20-4

**Catalog #:** 1-783104-300



## Taxifolin

**Column:** (S,S) Whelk-O 2,  
10  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (85/15)  
Hexane/Ethanol

+ 0.1% TFA

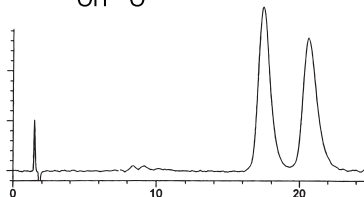
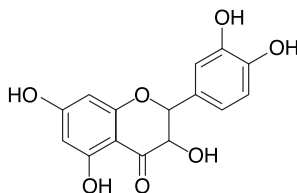
**Flow Rate:** 2.0 mL/min

**Detection:** UV 220 nm

**k':** 11.87

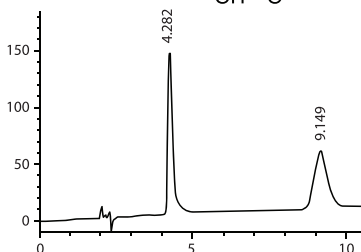
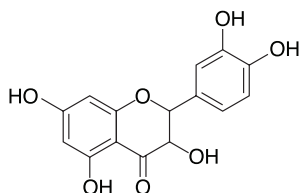
**$\alpha$ :** 1.20

**Catalog #:** 1-786415-300



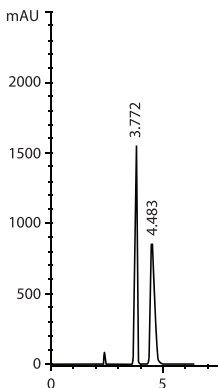
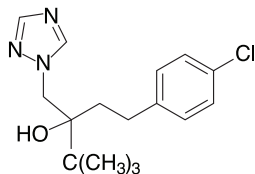
## Taxifolin

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (70/15/15)  
Hexane/Ethanol/Methanol  
+0.1% TFA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
 **$k'$ :** 1.22  
 **$\alpha$ :** 3.07  
**CAS #:** 480-18-2  
**Catalog #:** 1-783104-300



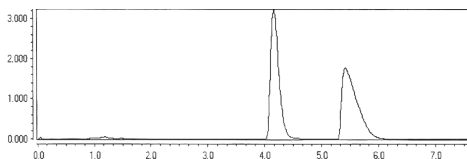
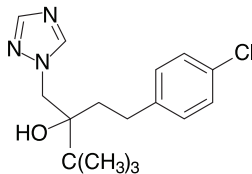
## Tebuconazole

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (80/20)  
Hexane/IPA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
 **$k'$ :** 0.98  
 **$\alpha$ :** 1.39  
**CAS #:** 107534-96-3  
**Catalog #:** 1-783104-300



## Tebuconazole

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (85/15)  
 $\text{CO}_2$ /IPA  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40  $^\circ\text{C}$   
**Pressure:** 124 bar  
**Detection:** UV 220 nm  
 **$k'$ :** 4.56  
 **$\alpha$ :** 1.37  
**Catalog #:** 1-783104-300



## Temazepam

**Column:** (S,S) Whelk-O 1,

10  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (80/20)

Hexane/IPA

+ 0.1% Acetic Acid

**Flow Rate:** 2.0 mL/min

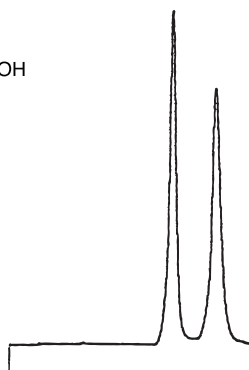
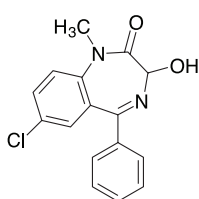
**Detection:** UV 254 nm

**Run Time:** 13.0 min

**k'**: 6.86

**$\alpha$ :** 1.34

**Catalog #:** 1-786615-300



## Temazepam

**Column:** (S,S) Whelk-O 1,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (70/30)

CO<sub>2</sub>/Ethanol

+ 0.5% Acetic Acid

**Flow Rate:** 4.0 mL/min

**Temperature:** 40 °C

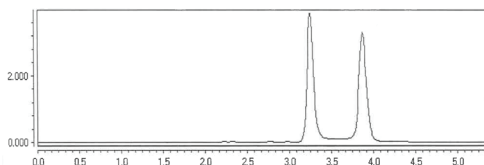
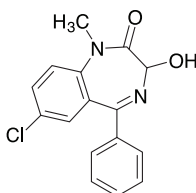
**Pressure:** 125 bar

**Detection:** UV 254 nm

**k'**: 3.33

**$\alpha$ :** 1.25

**Catalog #:** 1-780101-300



## Temazepam

**Column:** (S,S) ULMO,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (97/3)

Hexane/IPA

+ 0.1% Acetic Acid

**Flow Rate:** 1.5 mL/min

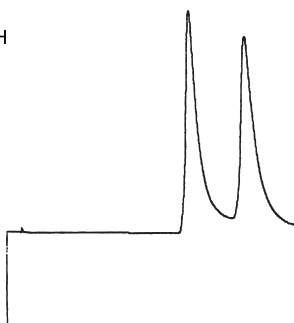
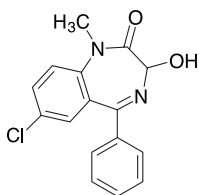
**Detection:** UV 254 nm

**Run Time:** 31.0 min

**k'**: 12.05

**$\alpha$ :** 1.34

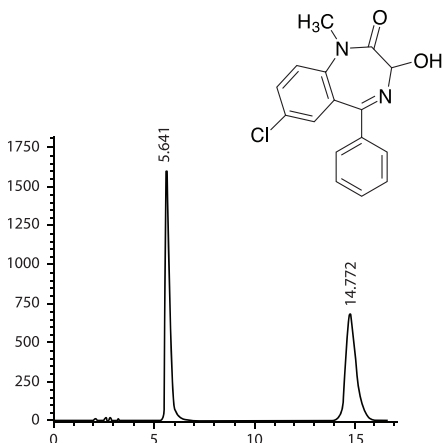
**Catalog #:** 1-787100-300





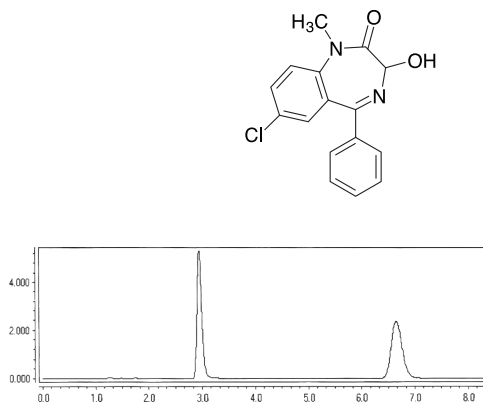
## Temazepam

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (50/50)  
Hexane/IPA  
+ 0.1% Acetic Acid  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
**k':** 1.97  
 **$\alpha$ :** 3.44  
**CAS #:** 846-50-4  
**Catalog #:** 1-783104-300



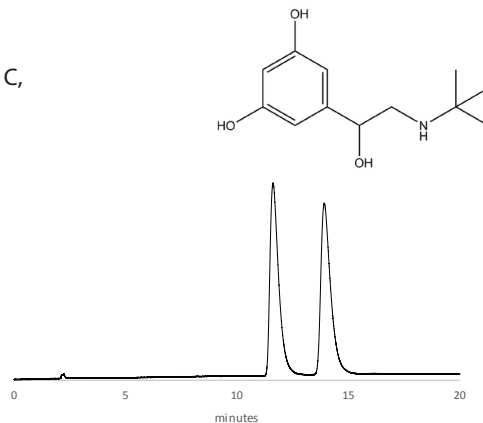
## Temazepam

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (60/40)  
 $\text{CO}_2$ /IPA  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40  $^\circ\text{C}$   
**Pressure:** 125 bar  
**Detection:** UV 220 nm  
**k':** 2.92  
 **$\alpha$ :** 2.69  
**Catalog #:** 1-783104-300



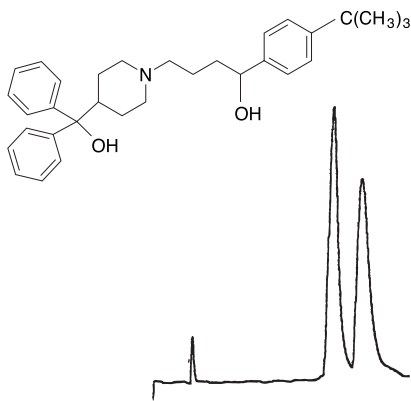
## Terbutaline

**Column:** Reflect I-Cellulose C,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10/0.1)  
Hexane/Ethanol/DEA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 276 nm  
**k':** 4.79  
 **$\alpha$ :** 1.24  
**CAS #:** 23031-32-5  
**Catalog #:** 1-593204-300



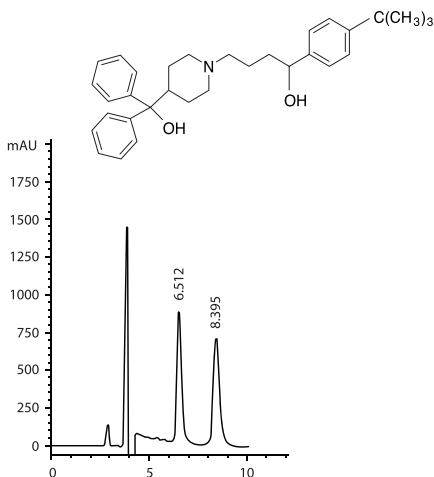
## Terfenadine

**Column:** (R,R) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (97/3)  
Hexane/Ethanol  
+ 0.01 M Ammonium Acetate  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 15.0 min  
**k'**: 5.91  
 **$\alpha$ :** 1.20  
**Catalog #:** 1-780201-300



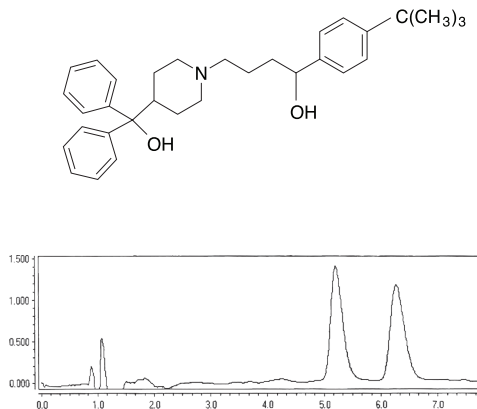
## Terfenadine

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (85/15)  
Hexane/IPA + 0.1% DEA  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 220 nm  
**k'**: 1.25  
 **$\alpha$ :** 1.52  
**CAS #:** 50679-08-8  
**Catalog #:** 1-783104-300



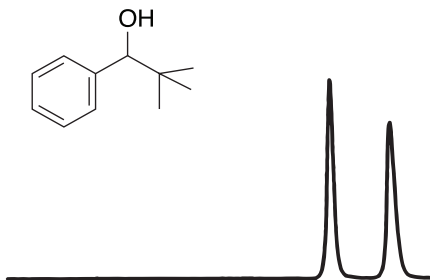
## Terfenadine

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (70/30)  
 $\text{CO}_2$ /IPA + 0.5% DEA  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40  $^\circ\text{C}$   
**Pressure:** 125 bar  
**Detection:** UV 220 nm  
**k'**: 5.94  
 **$\alpha$ :** 1.24  
**Catalog #:** 1-783104-300



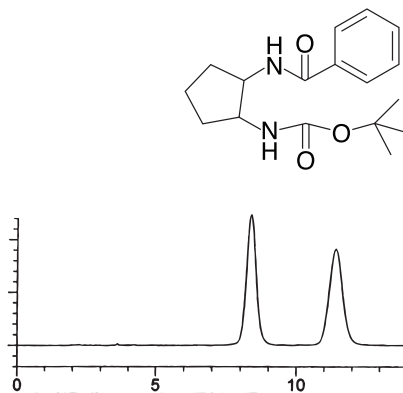
## Tert Butyl Phenyl Carbinol

**Column:** (S,S) ULMO,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (99/1)  
Heptane/IPA  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 215 nm  
**Run Time:** 6.0 min  
**k'**: 4.60  
 **$\alpha$ :** 1.46  
**Catalog #:** 1-787100-300



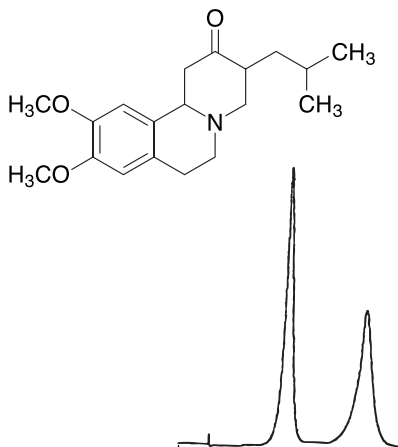
## Tert-butyl-2-(benzamido) cyclopentyl carbamate

**Column:** (S,S) Whelk-O 1,  
10  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (95/5)  
Hexane/IPA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**k'**: 3.65  
 **$\alpha$ :** 1.46  
**Catalog #:** 1-786615-300



## Tetrabenazine

**Column:** (S,S) Whelk-O 1,  
10  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (55/45)  
Hexane/IPA + 0.1% TFA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 280 nm  
**Run Time:** 13.4 min  
**k'**: 3.35  
 **$\alpha$ :** 1.93  
**Catalog #:** 1-786615-300



## Tetrahydrobenzopyrene-7-ol

**Column:** (S,S) Whelk-O 1,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (80/20)

Hexane/IPA

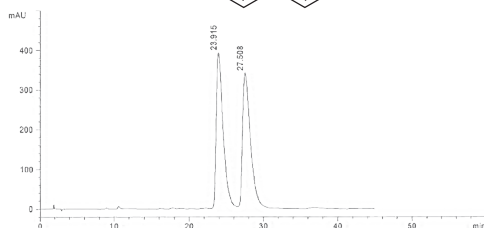
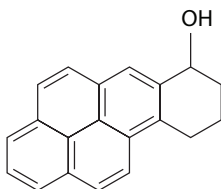
**Flow Rate:** 1.5 mL/min

**Detection:** UV 254 nm

**k'**: 11.39

**$\alpha$ :** 1.16

**Catalog #:** 1-780101-300



## Tetrahydrobenzopyrene-7-ol

**Column:** Whelk-O 1,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (80/20)

Hexane/IPA

**Flow Rate:** 1.0 mL/min

**Detection:** UV 254 nm

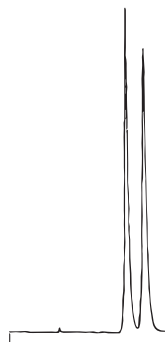
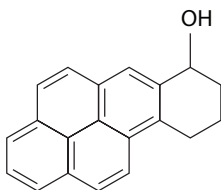
**Run Time:** 22 min

**k'**: 6.10

**$\alpha$ :** 1.18

**Catalog #:** 1-780101-300,

1-780201-300



## 1,2,3,4-Tetrahydro-1-naphthylamine

**Column:** ChiroSil,

5  $\mu\text{m}$ , 15 cm x 4.6 mm

**Mobile Phase:** (84/16)

CH<sub>3</sub>OH/H<sub>2</sub>O + 10 mM

H<sub>2</sub>SO<sub>4</sub> & 0.1% TEA

**Flow Rate:** 1.0 mL/min

**Detection:** UV 210 nm

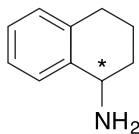
**Run Time:** 3.5 min

**k'**: 0.82

**$\alpha$ :** 1.76

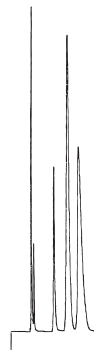
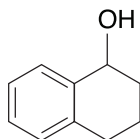
**Catalog #:** 1-799001-300,

1-799101-300



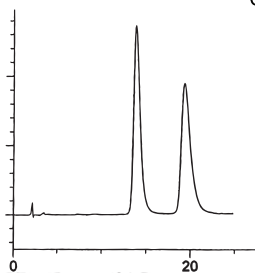
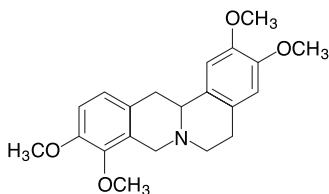
## 1,2,3,4-Tetrahydro-1-Naphtol

**Column:** (R,R) ULMO,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (99/1)  
Hexane/IPA  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 10.5 min  
**k'**: 2.17  
 **$\alpha$ :** 1.30  
**Catalog #:** 1-787200-300



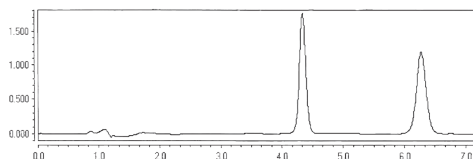
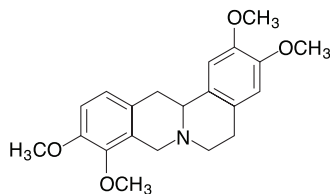
## Tetrahydropalmatine

**Column:** (S,S) Whelk-O 1,  
10  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (50/50)  
Hexane/IPA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**k'**: 6.66  
 **$\alpha$ :** 1.46  
**Catalog #:** 1-786515-300



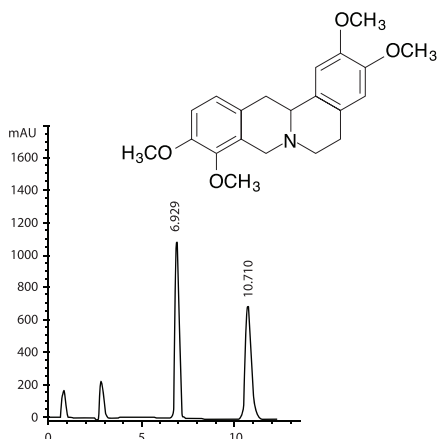
## Tetrahydropalmatine

**Column:** (S,S) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (60/40)  
 $\text{CO}_2/\text{CH}_3\text{OH} + 0.5\% \text{ DEA}$   
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40  $^\circ\text{C}$   
**Pressure:** 125 bar  
**Detection:** UV 220 nm  
**k'**: 4.78  
 **$\alpha$ :** 1.54  
**Catalog #:** 1-780101-300



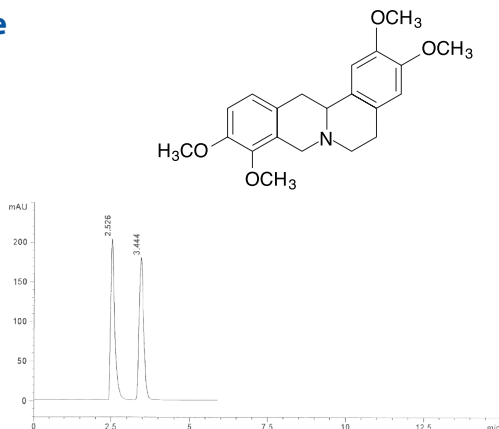
## Tetrahydropalmatine

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (80/20)  
Hexane/Ethanol  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 280 nm  
**k'**: 1.39  
 **$\alpha$ :** 1.94  
**CAS #:** 10097-84-4  
**Catalog #:** 1-783104-300



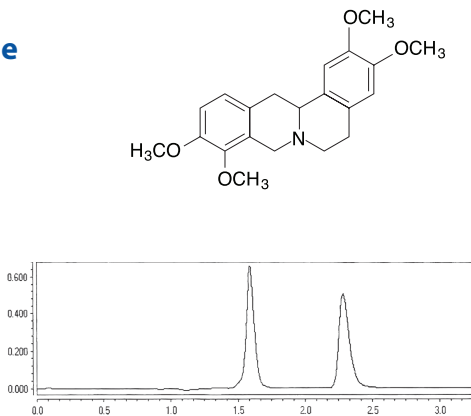
## Tetrahydropalmatine

**Column:** RegisPack,  
3  $\mu\text{m}$ , 15 cm x 4.6 mm  
**Mobile Phase:** (95/5)  
Hexane/Ethanol  
+ 0.1% DEA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 280 nm  
**k'**: 1.18  
 **$\alpha$ :** 1.67  
**Catalog #:** 1-783503-300



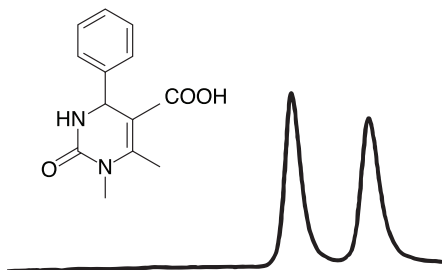
## Tetrahydropalmatine

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (70/30)  
CO<sub>2</sub>/Ethanol  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40 °C  
**Pressure:** 125 bar  
**Detection:** UV 280 nm  
**k'**: 1.12  
 **$\alpha$ :** 1.84  
**Catalog #:** 1-783104-300



## Tetrahydropyrimidine Carboxylic Acid

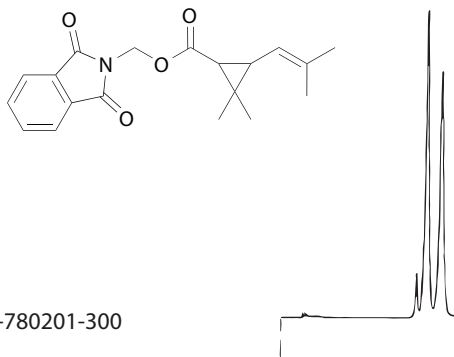
**Column:** (S,S) ULMO,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
Heptane/IPA + 0.1% TFA  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 215 nm  
**Run Time:** 14 min  
**k'**: 3.38  
 **$\alpha$ :** 1.21  
**Reference:** 43  
**Catalog #:** 1-787100-300



## Tetramethrin

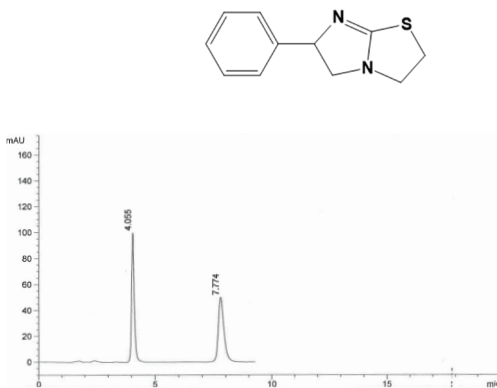
*Insecticide*

**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (98/2)  
Hexane/IPA  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 22 min  
**k'**: 11.77  
 **$\alpha$ :** 1.12  
**Catalog #:** 1-780101-300, 1-780201-300



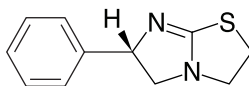
## Tetramisole

**Column:** (S,S) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (50/50)  
Hexane/Ethanol  
+ 0.1% DEA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**k'**: 1.10  
 **$\alpha$ :** 2.75  
**Catalog #:** 1-780101-300



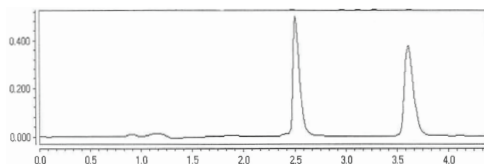
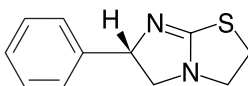
## Tetramisole

**Column:** (R,R) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (40/40/20)  
 $\text{CH}_2\text{Cl}_2$ /Hexane/Ethanol  
+ 0.01 M Ammonium Acetate  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 7.0 min  
 **$k'$ :** 0.52  
 **$\alpha$ :** 2.84  
**Catalog #:** 1-780201-300



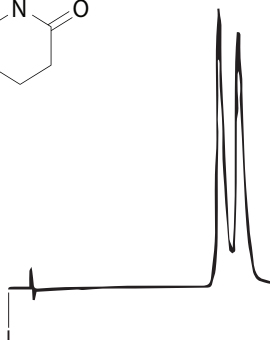
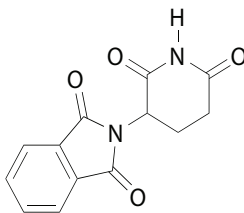
## Tetramisole

**Column:** (S,S) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (65/35)  
 $\text{CO}_2$ / $\text{CH}_3\text{OH}$  + .5% DEA  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40  $^\circ\text{C}$   
**Pressure:** 125 bar  
**Detection:** UV 254 nm  
 **$k'$ :** 2.34  
 **$\alpha$ :** 1.63  
**Catalog #:** 1-780101-300



## Thalidomide

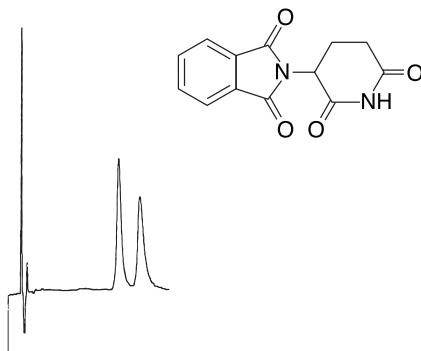
**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (63/37)  
 $\text{H}_2\text{O}$ / $\text{MeOH}$  + 0.1% HOAc  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 33 min  
 **$k'$ :** 10.19  
 **$\alpha$ :** 1.10  
**Catalog #:** 1-780101-300,  
1-780201-300





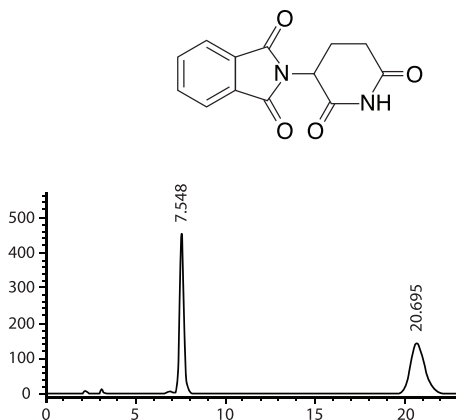
## Thalidomide

**Column:** (R,R) ULMO,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
Hexane/IPA  
+ 0.1% Acetic Acid  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 220 nm  
**Run Time:** 28.0 min  
**k'**: 7.71  
 **$\alpha$ :** 1.22  
**Catalog #:** 1-787200-300



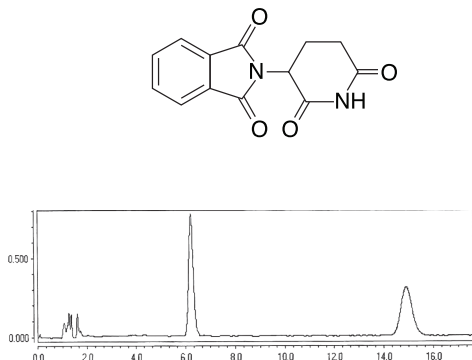
## Thalidomide

**Column:** RegisPack ,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** 100%  
Methanol  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
**k'**: 2.97  
 **$\alpha$ :** 1.33  
**CAS #:** 50-35-1  
**Catalog #:** 1-783104-300



## Thalidomide

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (55/45)  
 $\text{CO}_2/\text{CH}_3\text{OH}$   
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40  $^\circ\text{C}$   
**Pressure:** 124 bar  
**Detection:** UV 220 nm  
**k'**: 7.28  
 **$\alpha$ :** 2.59  
**Catalog #:** 1-783104-300



## 1,3-Thiazole

*N*-1~-1,3-thiazol-2-yl-*N*-2~--(2-thienylcarbonyl)valinamide

**Column:** (S,S) Whelk-O 1, 5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (75/25)

CO<sub>2</sub>/IPA

**Flow Rate:** 4.0 mL/min

**Temperature:** 40 °C

**Pressure:** 125 bar

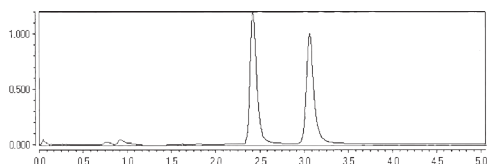
**Detection:** UV 220 nm

**k'**: 2.23

**k'**: 3.09

**$\alpha$ :** 1.39

**Catalog #:** 1-780101-300



## 1,3-Thiazole

*N*-1~-1,3-thiazol-2-yl-*N*-2~--(2-thienylcarbonyl)valinamide

**Column:** RegisPack,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (80/20)

Hexane/Ethanol

**Flow Rate:** 1.5 mL/min

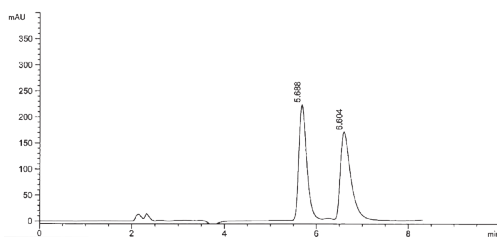
**Detection:** UV 220 nm

**k'**: 1.99

**k'**: 2.47

**$\alpha$ :** 1.24

**Catalog #:** 1-783104-300



## 1,3-Thiazole

*N*-1~-1,3-thiazol-2-yl-*N*-2~--(2-thienylcarbonyl)valinamide

**Column:** RegisPack, 5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (65/35)

CO<sub>2</sub>/IPA

**Flow Rate:** 4.0 mL/min

**Temperature:** 40 °C

**Pressure:** 124 bar

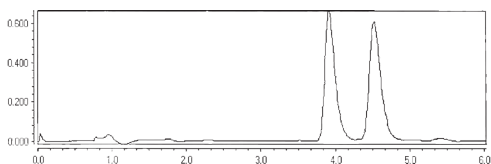
**Detection:** UV 220 nm

**k'**: 4.21

**k'**: 5.03

**$\alpha$ :** 1.19

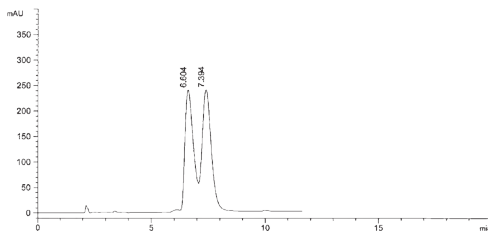
**Catalog #:** 1-783104-300



## 1,3-Thiazole

*N*-1~1,3-thiazol-2-yl-*N*-2~-(2-thienylcarbonyl)valinamide

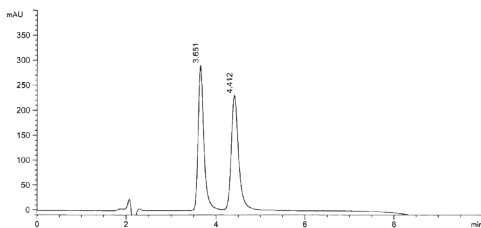
**Column:** RegisCell,  
5  $\mu$ m, 25 cm x 4.6 mm  
**Mobile Phase:** (96/4)  
Hexane/IPA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
**k'**<sub>1</sub>: 2.47  
**k'**<sub>2</sub>: 2.89  
 **$\alpha$** : 1.17  
**Catalog #:** 1-784104-300



## 1,3-Thiazole

ethyl (2-[[2-(4-methoxyphenoxy)propanoyl]amino]-1,3-thiazol-4-yl)acetate

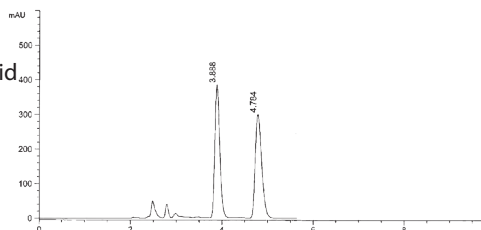
**Column:** (S,S) Whelk-O 1,  
5  $\mu$ m, 25 cm x 4.6 mm  
**Mobile Phase:** (50/50)  
Hexane/IPA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
**k'**<sub>1</sub>: 0.92  
**k'**<sub>2</sub>: 1.32  
 **$\alpha$** : 1.43  
**Catalog #:** 1-780101-300



## 1,3-Thiazole

ethyl (2-[[2-(4-methoxyphenoxy)propanoyl]amino]-1,3-thiazol-4-yl)acetate

**Column:** RegisPack,  
5  $\mu$ m, 25 cm x 4.6 mm  
**Mobile Phase:** (50/50)  
Hexane/IPA + 0.1% Acetic Acid  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
**k'**<sub>1</sub>: 1.97  
 **$\alpha$** : 3.44  
**CAS #:** 846-50-4  
**Catalog #:** 1-783104-300



## 1,3-Thiazole

*ethyl (2-[[2-(4-methoxyphenoxy)propanoyl]amino]-1,3-thiazol-4-yl)acetate*

**Column:** RegisPack, 5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (80/20)

CO<sub>2</sub>/Ethanol

**Flow Rate:** 4.0 mL/min

**Temperature:** 40 °C

**Pressure:** 125 bar

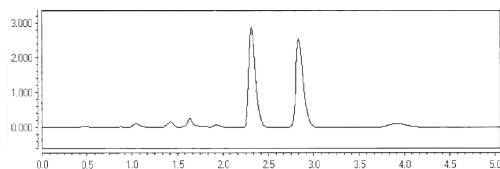
**Detection:** UV 220 nm

**k'<sub>1</sub>:** 2.09

**k'<sub>2</sub>:** 2.77

**$\alpha$ :** 1.33

**Catalog #:** 1-783104-300



## 1,3-Thiazole

*ethyl {2-[[2-(2-phenoxybutanoyl)amino]-1,3-thiazol-4-yl]acetate*

**Column:** (S,S) Whelk-O 1, 5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (85/15)

CO<sub>2</sub>/IPA + 0.2% DEA

**Flow Rate:** 4.0 mL/min

**Temperature:** 40 °C

**Pressure:** 124 bar

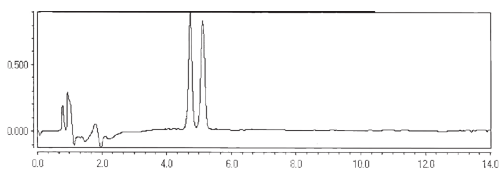
**Detection:** UV 220 nm

**k'<sub>1</sub>:** 5.31

**k'<sub>2</sub>:** 5.81

**$\alpha$ :** 1.09

**Catalog #:** 1-780101-300



## 1,3-Thiazole

*ethyl {2-[[2-(2-phenoxybutanoyl)amino]-1,3-thiazol-4-yl]acetate*

**Column:** RegisPack,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (85/15)

Hexane/Ethanol

**Flow Rate:** 1.5 mL/min

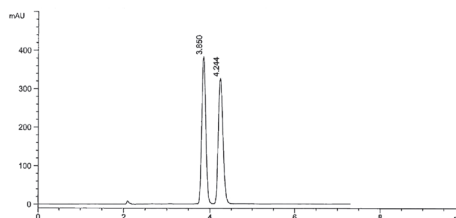
**Detection:** UV 220 nm

**k'<sub>1</sub>:** 1.03

**k'<sub>2</sub>:** 1.23

**$\alpha$ :** 1.19

**Catalog #:** 1-783104-300



## 1,3-Thiazole

*ethyl {2-[(2-phenoxybutanoyl)amino]-1,3-thiazol-4-yl}acetate*

**Column:** RegisPack, 5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (87/13)

CO<sub>2</sub>/Ethanol + 0.2% DEA

**Flow Rate:** 4.0 mL/min

**Temperature:** 40 °C

**Pressure:** 125 bar

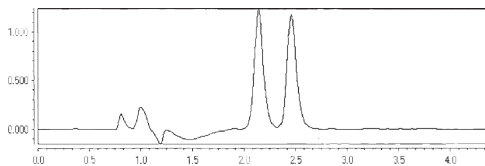
**Detection:** UV 220 nm

**k'**<sub>1</sub>: 1.85

**k'**<sub>2</sub>: 2.28

**$\alpha$** : 1.23

**Catalog #:** 1-783104-300



## 1,3-Thiazole

*ethyl {2-[(2-phenoxybutanoyl)amino]-1,3-thiazol-4-yl}acetate*

**Column:** RegisCell,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (80/20)

Hexane/IPA

**Flow Rate:** 1.5 mL/min

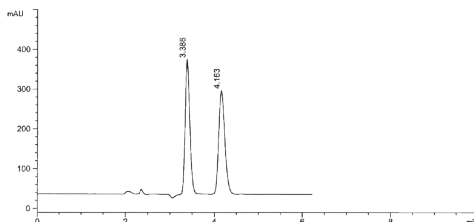
**Detection:** UV 220 nm

**k'**<sub>1</sub>: 0.78

**k'**<sub>2</sub>: 1.19

**$\alpha$** : 1.53

**Catalog #:** 1-784104-300



## 1,3-Thiazole

*2-(4-bromophenoxy)-N-1,3-thiazol-2-ylpropanamide*

**Column:** (S,S) Whelk-O 1,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (70/30)

Hexane/IPA

**Flow Rate:** 1.5 mL/min

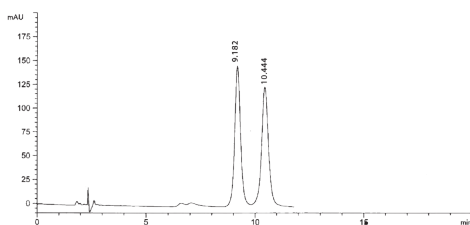
**Detection:** UV 220 nm

**k'**<sub>1</sub>: 3.83

**k'**<sub>2</sub>: 4.49

**$\alpha$** : 1.17

**Catalog #:** 1-780101-300



## 1,3-Thiazole

*2-(4-bromophenoxy)-N-1,3-thiazol-2-ylpropanamide*

**Column:** (S,S) Whelk-O 1, 5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (80/20)

CO<sub>2</sub>/IPA

**Flow Rate:** 4.0 mL/min

**Temperature:** 40 °C

**Pressure:** 125 bar

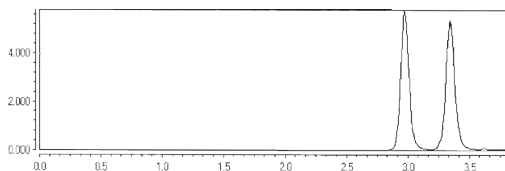
**Detection:** UV 254 nm

**k'<sub>1</sub>:** 2.96

**k'<sub>2</sub>:** 3.47

**$\alpha$ :** 1.17

**Catalog #:** 1-780101-300



## 1,3-Thiazole

*2-(4-bromophenoxy)-N-1,3-thiazol-2-ylpropanamide*

**Column:** RegisPack, 5  $\mu\text{m}$ ,  
25 cm x 4.6 mm

**Mobile Phase:** (80/20)

Hexane/Ethanol

**Flow Rate:** 1.5 mL/min

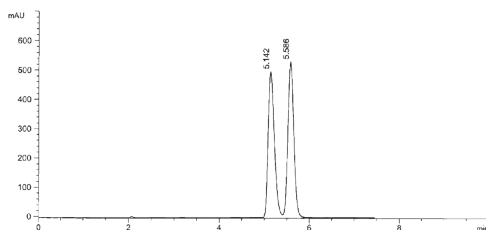
**Detection:** UV 220 nm

**k'<sub>1</sub>:** 2.54

**k'<sub>2</sub>:** 2.85

**$\alpha$ :** 1.12

**Catalog #:** 1-783104-300



## 1,3-Thiazole

*2-(4-bromophenoxy)-N-1,3-thiazol-2-ylpropanamide*

**Column:** RegisPack, 5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (70/30)

CO<sub>2</sub>/Ethanol

**Flow Rate:** 4.0 mL/min

**Temperature:** 40 °C

**Pressure:** 125 bar

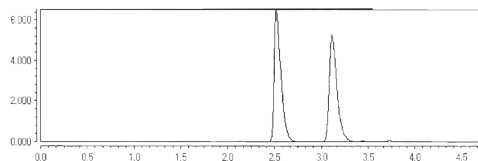
**Detection:** UV 254 nm

**k'<sub>1</sub>:** 2.36

**k'<sub>2</sub>:** 3.16

**$\alpha$ :** 1.34

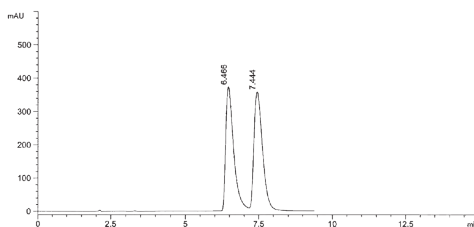
**Catalog #:** 1-783104-300



## 1,3-Thiazole

*2-(4-bromophenoxy)-N-1,3-thiazol-2-ylpropanamide*

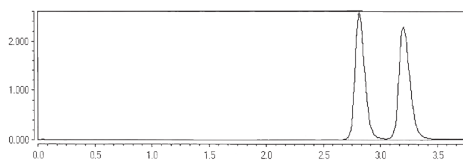
**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (95/5)  
Hexane/IPA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
**k'**<sub>1</sub>: 2.41  
**k'**<sub>2</sub>: 2.92  
 **$\alpha$** : 1.21  
**Catalog #:** 1-784104-300



## 1,3-Thiazole

*2-(4-bromophenoxy)-N-1,3-thiazol-2-ylpropanamide*

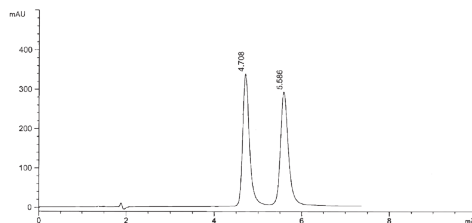
**Column:** RegisCell, 5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
 $\text{CO}_2$ /IPA  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40  $^\circ\text{C}$   
**Pressure:** 124 bar  
**Detection:** UV 254 nm  
**k'**<sub>1</sub>: 2.76  
**k'**<sub>2</sub>: 3.28  
 **$\alpha$** : 1.19  
**Catalog #:** 1-784104-300



## 1,3-Thiazole

*ethyl (2-([2-(4-bromophenoxy)propanoyl]amino)-1,3-thiazol-4-yl)acetate*

**Column:** (S,S) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (75/25)  
Hexane/IPA  
**Flow Rate:** 2.0 mL/min  
**Detection:** UV 220 nm  
**k'**<sub>1</sub>: 2.25  
**k'**<sub>2</sub>: 2.85  
 **$\alpha$** : 1.27  
**Catalog #:** 1-780101-300



## 1,3-Thiazole

*ethyl (2-[[2-(4-bromophenoxy)propanoyl]amino]-1,3-thiazol-4-yl)acetate*

**Column:** (S,S) Whelk-O 1, 5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (85/15)

CO<sub>2</sub>/IPA

**Flow Rate:** 4.0 mL/min

**Temperature:** 40 °C

**Pressure:** 125 bar

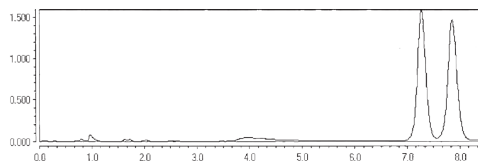
**Detection:** UV 220 nm

**k':** 8.69

**k'z:** 9.48

**$\alpha$ :** 1.09

**Catalog #:** 1-780101-300



## 1,3-Thiazole

*ethyl (2-[[2-(4-bromophenoxy)propanoyl]amino]-1,3-thiazol-4-yl)acetate*

**Column:** RegisPack,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (60/40)

Hexane/Ethanol

**Flow Rate:** 1.5 mL/min

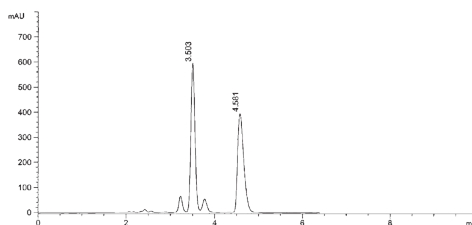
**Detection:** UV 220 nm

**k':** 0.84

**k'z:** 1.41

**$\alpha$ :** 1.68

**Catalog #:** 1-783104-300



## 1,3-Thiazole

*ethyl (2-[[2-(4-bromophenoxy)propanoyl]amino]-1,3-thiazol-4-yl)acetate*

**Column:** RegisPack, 5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (75/25) CO<sub>2</sub>/Ethanol

**Flow Rate:** 4.0 mL/min

**Temperature:** 40 °C

**Pressure:** 124 bar

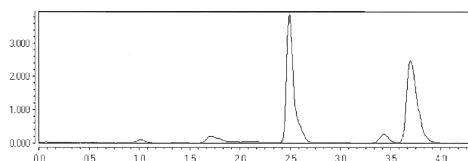
**Detection:** UV 220 nm

**k':** 2.32

**k'z:** 3.93

**$\alpha$ :** 1.69

**Catalog #:** 1-783104-300





## 1,3-Thiazole

*3-(4-chlorobenzyl)-1-(1,3-thiazol-2-yl)-2,5-pyrrolidinedione*

**Column:** (S,S) Whelk-O 1,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (70/30)

Hexane/IPA

**Flow Rate:** 2.0 mL/min

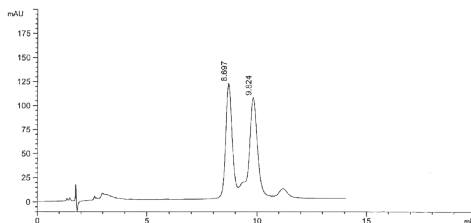
**Detection:** UV 220 nm

**k':** 5.00

**k':** 5.78

**$\alpha$ :** 1.16

**Catalog #:** 1-780101-300



## 1,3-Thiazole

*3-(4-chlorobenzyl)-1-(1,3-thiazol-2-yl)-2,5-pyrrolidinedione*

**Column:** RegisPack,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (65/35)

Hexane/Ethanol

**Flow Rate:** 1.5 mL/min

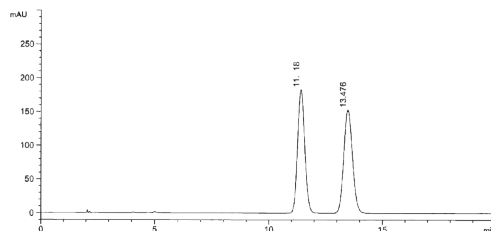
**Detection:** UV 220 nm

**k':** 5.01

**k':** 6.09

**$\alpha$ :** 1.22

**Catalog #:** 1-783104-300



## 1,3-Thiazole

*3-(4-chlorobenzyl)-1-(1,3-thiazol-2-yl)-2,5-pyrrolidinedione*

**Column:** RegisPack, 5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (70/30) CO<sub>2</sub>/Ethanol

**Flow Rate:** 4.0 mL/min

**Temperature:** 40 °C

**Pressure:** 126 bar

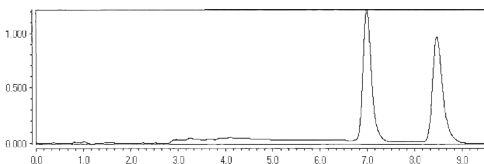
**Detection:** UV 220 nm

**k':** 8.33

**k':** 10.29

**$\alpha$ :** 1.24

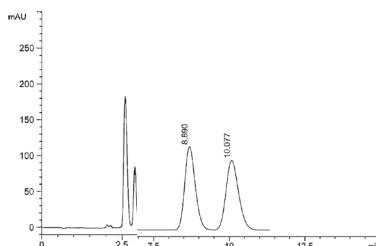
**Catalog #:** 1-783104-300



## 1,3-Thiazole

*3-(4-chlorobenzyl)-1-(1,3-thiazol-2-yl)-2,5-pyrrolidinedione*

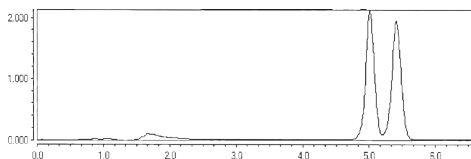
**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (50/50)  
Hexane/Ethanol  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
**k'1:** 3.57  
**k'2:** 4.31  
 **$\alpha$ :** 1.21  
**Catalog #:** 1-784104-300



## 1,3-Thiazole

*3-(4-chlorobenzyl)-1-(1,3-thiazol-2-yl)-2,5-pyrrolidinedione*

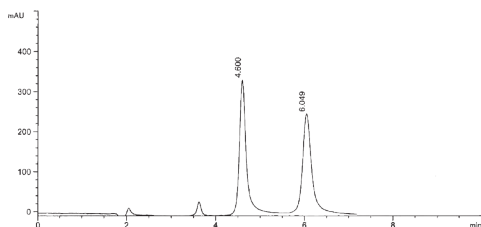
**Column:** RegisCell, 5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (80/20) CO<sub>2</sub>/Ethanol  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40 °C  
**Pressure:** 124 bar  
**Detection:** UV 220 nm  
**k'1:** 5.68  
**k'2:** 6.21  
 **$\alpha$ :** 1.09  
**Catalog #:** 1-784104-300



## 1,3-Thiazole

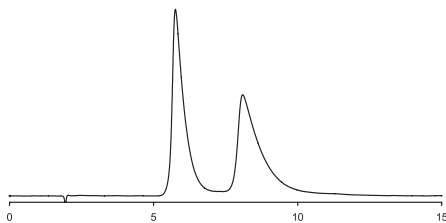
*4-benzoyl-5-(3,4-dimethoxyphenyl)-3-hydroxy-1-(1,3-thiazol-2-yl)-1,5-dihydro-2H-pyrrol-2-one*

**Column:** (S,S) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** 100%  
Methanol + 0.1% TEA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
**k'1:** 1.27  
**k'2:** 2.18  
 **$\alpha$ :** 1.72  
**Catalog #:** 1-780101-300



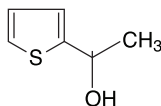
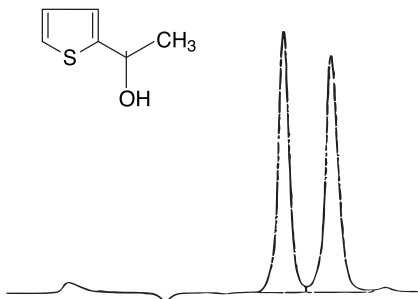
## DL- Thienylalanine

**Column:** ChiroSil ME RCA(+),  
5  $\mu\text{m}$ , 15 cm x 4.6 mm  
**Mobile Phase:** (30/70)  
0.01% Phosphoric Acid/MeOH  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 210 nm  
**Temperature:** 0 °C  
**k':** 1.96  
 **$\alpha$ :** 1.61  
**Catalog #:** 1-788001-300



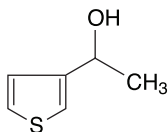
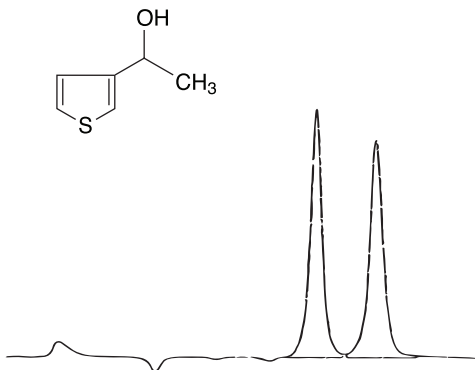
## 2-Thiopheneethanol

**Column:** (S,S) ULMO,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (98.5/1.5)  
n-Heptane/1,2-Dimethoxyethane  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 10.5 min  
**k':** 2.21  
 **$\alpha$ :** 1.12  
**Reference:** 55  
**Catalog #:** 1-787100-300



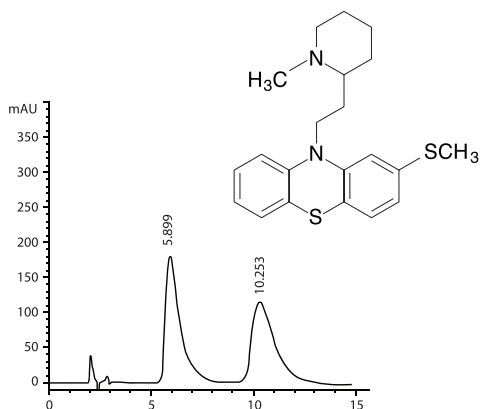
## 3-Thiopheneethanol

**Column:** (S,S) ULMO,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (98.5/1.5)  
n-Heptane/1,2-Dimethoxyethane  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 11.5 min  
**k':** 2.42  
 **$\alpha$ :** 1.13  
**Reference:** 55  
**Catalog #:** 1-787100-300



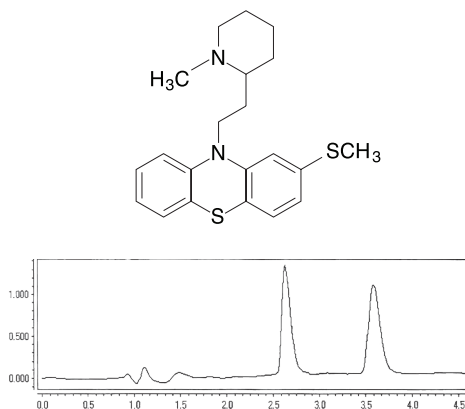
## Thioridazine

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (80/20)  
Hexane/Ethanol  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**k'**: 2.11  
 **$\alpha$ :** 2.08  
**CAS #:** 50-52-2  
**Catalog #:** 1-783104-300



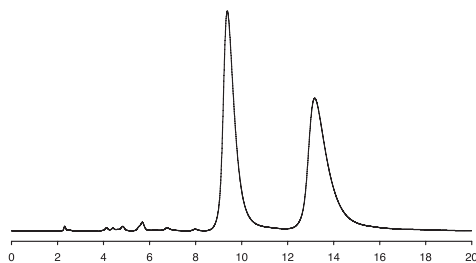
## Thioridazine

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (70/30)  
 $\text{CO}_2$ /Ethanol + 0.5% DEA  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40  $^\circ\text{C}$   
**Pressure:** 124 bar  
**Detection:** UV 220 nm  
**k'**: 2.50  
 **$\alpha$ :** 1.51  
**Catalog #:** 1-783104-300



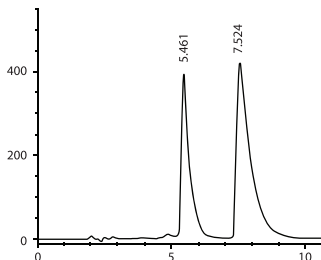
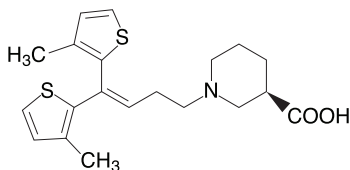
## DL-Thr

**Column:** ChiroSil ME RCA(+),  
5  $\mu\text{m}$ , 15 cm x 4.6 mm  
**Mobile Phase:** (50/50)  
5 mM  $\text{HClO}_4$  Acid/MeOH  
**Flow Rate:** 0.5 mL/min  
**Detection:** UV 210 nm  
**Temperature:** 20  $^\circ\text{C}$   
**k'**: 1.47  
 **$\alpha$ :** 1.68  
**Rs:** 5.45  
**Catalog #:** 1-788001-300



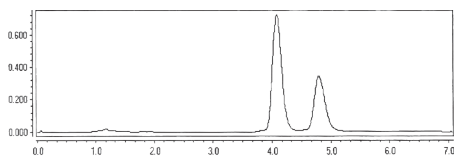
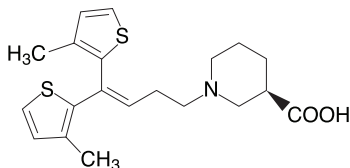
## Tiagabine

**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (85/15)  
Hexane/Ethanol + 0.1% TFA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
 **$k'$ :** 1.87  
 **$\alpha$ :** 1.58  
**CAS #:** 115103-54-3  
**Catalog #:** 1-784104-300



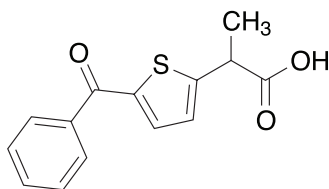
## Tiagabine

**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (85/15)  
 $\text{CO}_2/\text{CH}_3\text{OH}$  + 0.5% DEA  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40  $^\circ\text{C}$   
**Pressure:** 125 bar  
**Detection:** UV 254 nm  
 **$k'$ :** 4.44  
 **$\alpha$ :** 1.22  
**Catalog #:** 1-784104-300



## Tiaprofenic Acid

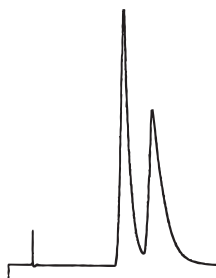
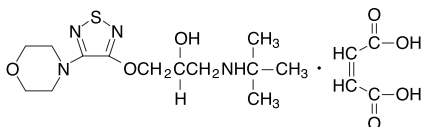
**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (80/20)  
Hexane/IPA, 1 g/L  $\text{NH}_4\text{OAc}$   
**Flow Rate:** 2.0 mL/min  
**Detection:** UV 254 nm  
 **$k'$ :** 2.02  
 **$\alpha$ :** 1.09  
**Reference:** 4  
**Catalog #:** 1-780101-300,  
1-780201-300



*No chromatogram available.*

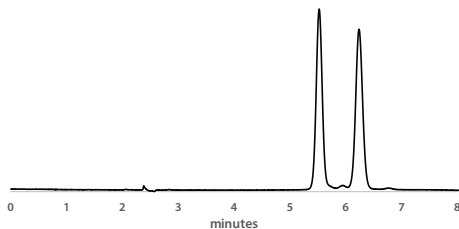
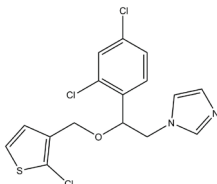
## Timolol Maleate

**Column:** (3R,4S) Pirkle 1-J,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (94/3/3)  
 $\text{CH}_2\text{Cl}_2$ /Ethanol/IPA  
+ 0.01M Ammonium Acetate  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 294 nm  
**Run Time:** 16.0 min  
**k'**: 3.72  
 **$\alpha$ :** 1.33  
**Catalog #:** 1-731044-300



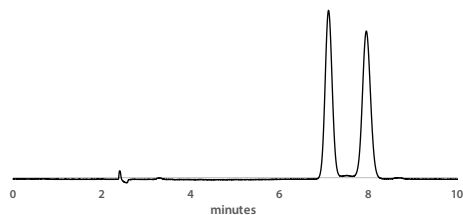
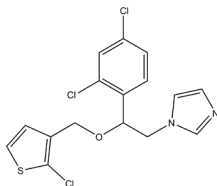
## Tioconazole

**Column:** Reflect C-Cellulose B,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (80/20/0.1)  
Hexane/Ethanol/DEA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**k'**: 1.76  
 **$\alpha$ :** 1.20  
**CAS #:** 65899-73-2  
**Catalog #:** 1-590204-300



## Tioconazole

**Column:** Reflect I-Cellulose B,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (80/20/0.1)  
Hexane/Ethanol/Acetic Acid  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**k'**: 2.53  
 **$\alpha$ :** 1.17  
**CAS #:** 65899-73-2  
**Catalog #:** 1-592204-300



## Tioconazole

**Column:** Reflect I-Cellulose C,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (80/20/0.1)

Hexane/Ethanol/DEA

**Flow Rate:** 1.5 mL/min

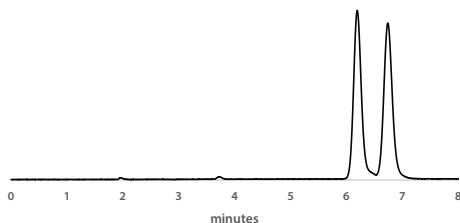
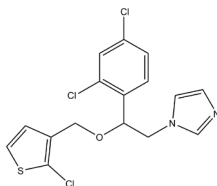
**Detection:** UV 254 nm

**k':** 2.09

**$\alpha$ :** 1.13

**CAS #:** 65899-73-2

**Catalog #:** 1-593204-300



## Tioconazole

**Column:** Reflect I-Cellulose J,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (80/20/0.1)

Hexane/Ethanol/DEA

**Flow Rate:** 1.5 mL/min

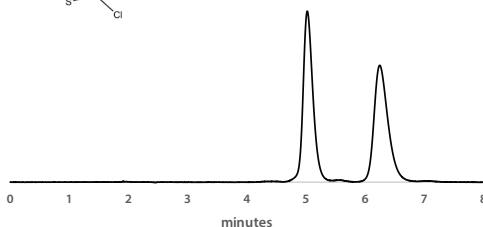
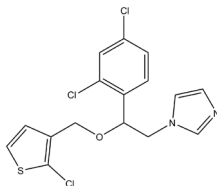
**Detection:** UV 254 nm

**k':** 1.50

**$\alpha$ :** 1.41

**CAS #:** 65899-73-2

**Catalog #:** 1-594204-300



## Tioconazole

**Column:** Reflect I-Cellulose J,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (90/10) CO<sub>2</sub>/

Methanol+0.2% DEA

**Flow Rate:** 3.0 mL/min

**Temperature:** 40 °C

**Pressure:** 150 bar

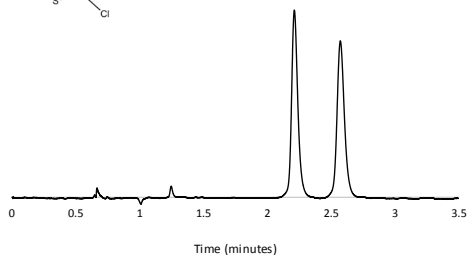
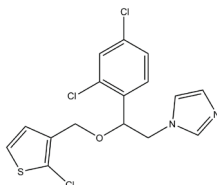
**Detection:** UV 210 nm

**k':** 1.20

**$\alpha$ :** 1.30

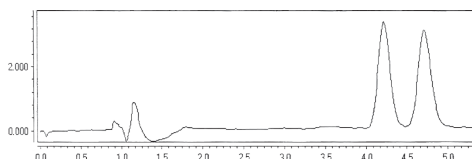
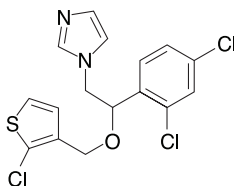
**CAS #:** 65899-73-2

**Catalog #:** 1-594204-300



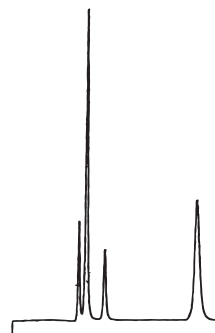
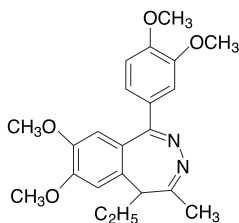
## Tioconazole

**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (80/20)  
 $\text{CO}_2/\text{IPA} + 0.5\% \text{ DEA}$   
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40  $^\circ\text{C}$   
**Pressure:** 125 bar  
**Detection:** UV 220 nm  
 **$k'$ :** 4.63  
 **$\alpha$ :** 1.14  
**CAS #:** 65899-73-2  
**Catalog #:** 1-784104-300



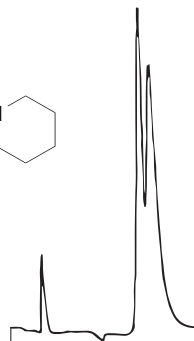
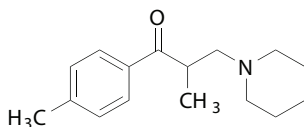
## Tofisopam and its Conformers

**Column:** (R,R)  $\beta$ -Gem 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (70/30)  
Hexane/Ethanol + 0.1% TEA  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 25.0 min  
 **$k'$ :** 2.66  
 **$\alpha$ :** 3.13  
**Catalog #:** 1-731043-300



## Tolperisone

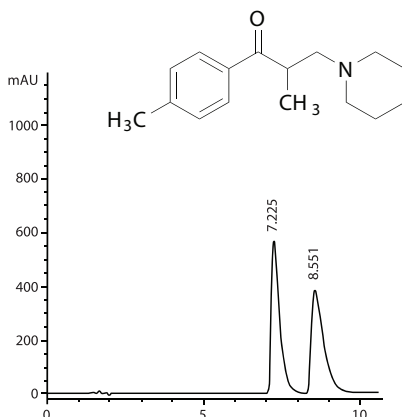
**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (99/1)  
Hexane/IPA + 0.1 % TEA  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 18 min  
 **$k'$ :** 4.81  
 **$\alpha$ :** 1.10  
**Catalog #:** 1-780101-300,  
1-780201-300





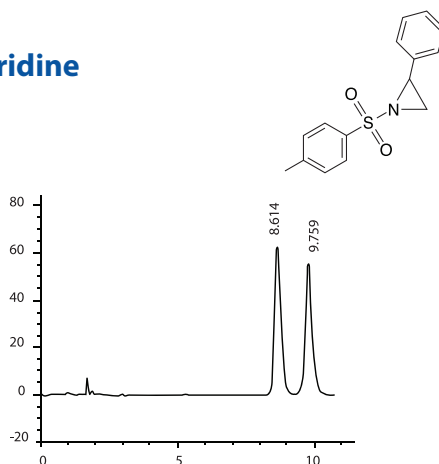
## Tolperisone

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (96/4)  
Hexane/Ethanol + 0.1% TFA  
**Flow Rate:** 2.0 mL/min  
**Detection:** UV 254 nm  
 **$k'$ :** 3.98  
 **$\alpha$ :** 1.23  
**CAS #:** 728-88-1  
**Catalog #:** 1-783104-300



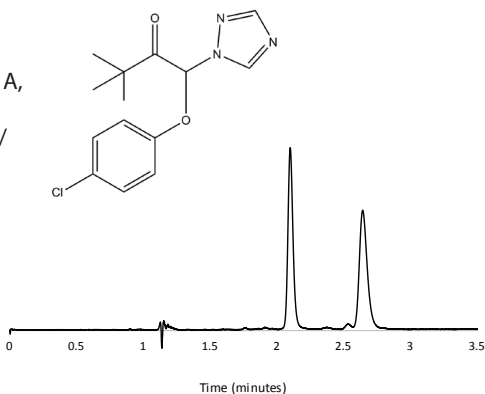
## 1-Tosyl-2-Phenylaziridine

**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (80/20)  
Hexane/IPA  
**Flow Rate:** 2.0 mL/min  
**Detection:** UV 254 nm  
 **$k'$ :** 4.94  
 **$\alpha$ :** 1.16  
**CAS #:** 24395-14-0  
**Catalog #:** 1-780101-300,  
1-780201-300



## Triadimefon

**Column:** Reflect I-Amylose A,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  $\text{CO}_2$ /  
Methanol  
**Flow Rate:** 3.0 mL/min  
**Temperature:** 30  $^\circ\text{C}$   
**Pressure:** 150 bar  
**Detection:** UV 210 nm  
 **$k'$ :** 1.10  
 **$\alpha$ :** 1.49  
**CAS #:** 43121-43-3  
**Catalog #:** 1-591204-300



## Triadimefon

**Column:** Reflect I-Cellulose B,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (95/5)  $\text{CO}_2$ /  
Methanol

**Flow Rate:** 3.0 mL/min

**Temperature:** 30  $^\circ\text{C}$

**Pressure:** 150 bar

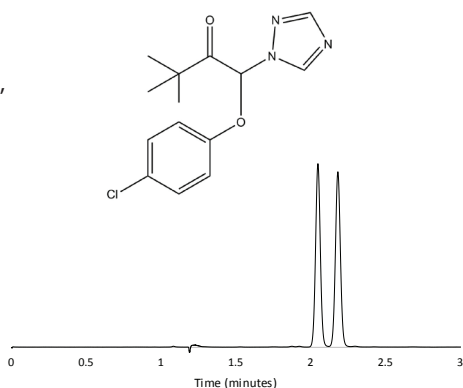
**Detection:** UV 210 nm

**$k'$ :** 1.04

**$\alpha$ :** 1.13

**CAS #:** 43121-43-3

**Catalog #:** 1-592204-300



## Triadimefon

**Column:** Reflect I-Cellulose C,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (95/5)  $\text{CO}_2$ /  
Methanol

**Flow Rate:** 3.0 mL/min

**Temperature:** 30  $^\circ\text{C}$

**Pressure:** 150 bar

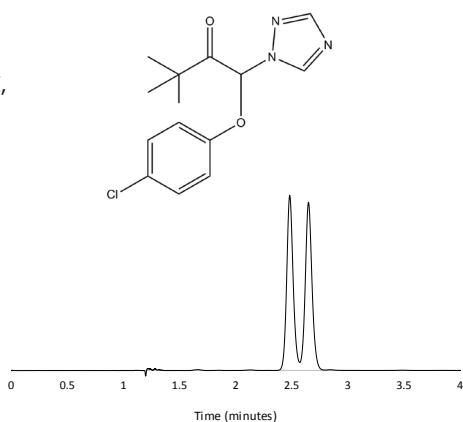
**Detection:** UV 210 nm

**$k'$ :** 1.48

**$\alpha$ :** 1.11

**CAS #:** 43121-43-3

**Catalog #:** 1-593204-300



## Triadimefon

**Column:** Reflect C-Amylose A,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (80/20)  $\text{CO}_2$ /  
Methanol

**Flow Rate:** 3.0 mL/min

**Temperature:** 30  $^\circ\text{C}$

**Pressure:** 150 bar

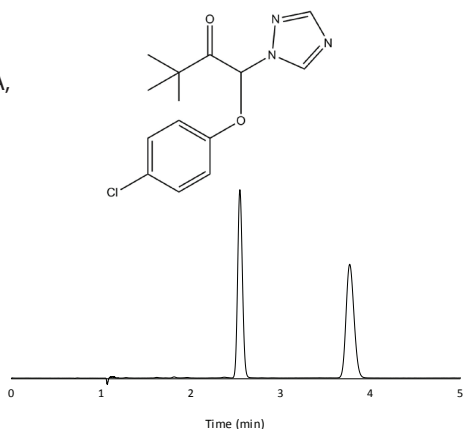
**Detection:** UV 210 nm

**$k'$ :** 1.54

**$\alpha$ :** 1.79

**CAS #:** 43121-43-3

**Catalog #:** 1-580204-300



## Triadimefon

**Column:** Reflect C-Cellulose B,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (95/5)  $\text{CO}_2$ /IPA

**Flow Rate:** 3.0 mL/min

**Temperature:** 30  $^\circ\text{C}$

**Pressure:** 150 bar

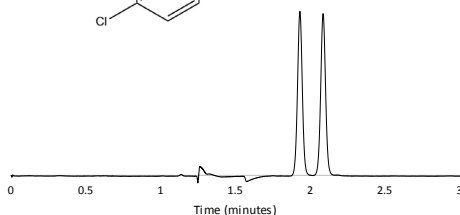
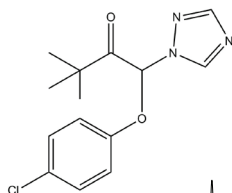
**Detection:** UV 210 nm

**$k'$ :** 0.93

**$\alpha$ :** 1.17

**CAS #:** 43121-43-3

**Catalog #:** 1-590204-300



## Triadimenol

**Column:** Reflect I-Cellulose B,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (95/5)  $\text{CO}_2$ /IPA

**Flow Rate:** 3.0 mL/min

**Temperature:** 30  $^\circ\text{C}$

**Pressure:** 150 bar

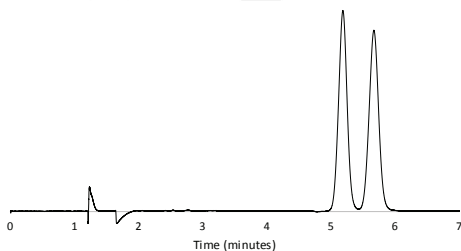
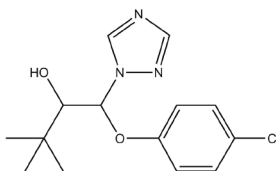
**Detection:** UV 210 nm

**$k'$ :** 4.18

**$\alpha$ :** 1.12

**CAS #:** 43121-43-3

**Catalog #:** 1-592204-300



## Triadimenol

**Column:** Reflect C-Amylose A,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (90/10)  $\text{CO}_2$ /IPA

**Flow Rate:** 3.0 mL/min

**Temperature:** 30  $^\circ\text{C}$

**Pressure:** 150 bar

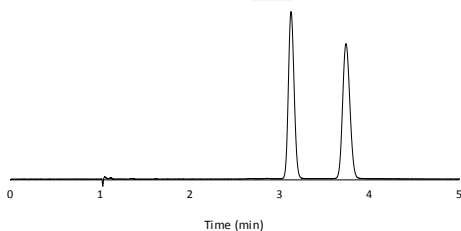
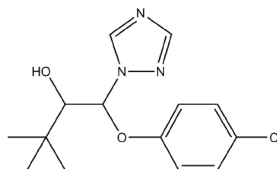
**Detection:** UV 210 nm

**$k'$ :** 2.12

**$\alpha$ :** 1.29

**CAS #:** 43121-43-3

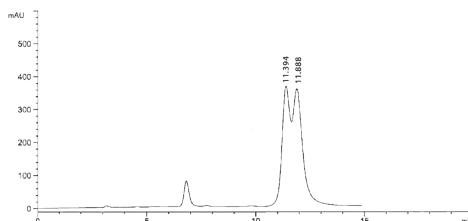
**Catalog #:** 1-580204-300



## 1,3,5-Triazines

*methyl 2-[(6-[[4,6-bis(dimethylamino)-1,3,5-triazin-2-yl]oxy]-3-pyridazinyl)oxy] propanoate*

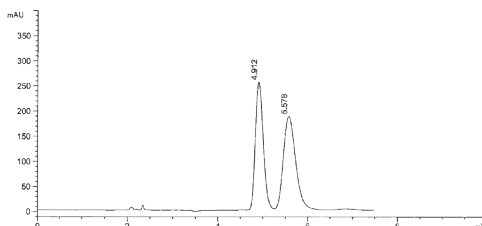
**Column:** (S,S) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** 100% Ethanol  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 220 nm  
**k'1:** 2.93  
**k'2:** 3.1  
 **$\alpha$ :** 1.06  
**Catalog #:** 1-780101-300



## 1,3,5-Triazines

*methyl 2-[(6-[[4,6-bis(dimethylamino)-1,3,5-triazin-2-yl]oxy]-3-pyridazinyl)oxy] propanoate*

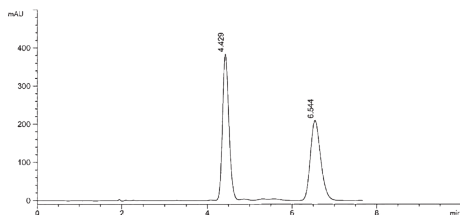
**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (80/20)  
Hexane/IPA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
**k'1:** 1.58  
**k'2:** 1.94  
 **$\alpha$ :** 1.23  
**Catalog #:** 1-783104-300



## 1,3,5-Triazines

*methyl 2-[(6-[[4,6-bis(dimethylamino)-1,3,5-triazin-2-yl]oxy]-3-pyridazinyl)oxy] propanoate*

**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (80/20)  
Hexane/Ethanol  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
**k'1:** 1.33  
**k'2:** 2.44  
 **$\alpha$ :** 1.83  
**Catalog #:** 1-784104-300



## 1,3,5-Triazines

*methyl 2-[(6-[[4,6-bis(dimethylamino)-1,3,5-triazin-2-yl]oxy]-3-pyridazinyl)oxy]propanoate*

**Column:** RegisCell, 5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (85/15)  $\text{CO}_2$ /IPA

**Flow Rate:** 4.0 mL/min

**Temperature:** 40  $^\circ\text{C}$

**Pressure:** 126 bar

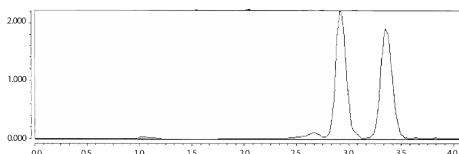
**Detection:** UV 220 nm

**k':** 2.89

**k'':** 3.48

**$\alpha$ :** 1.20

**Catalog #:** 1-784104-300



## 1,3,5-Triazines

*ethyl 1-((4-amino-6-[(2-methoxyphenyl)amino]-1,3,5-triazin-2-yl)methyl)-3-piperidinecarboxylate*

**Column:** RegisPack,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (90/10)

Hexane/Ethanol

**Flow Rate:** 1.5 mL/min

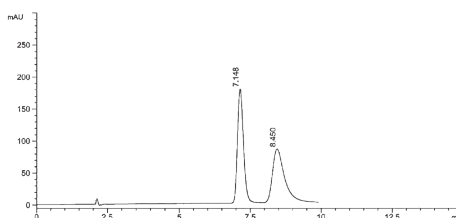
**Detection:** UV 220 nm

**k':** 2.76

**k'':** 3.45

**$\alpha$ :** 1.25

**Catalog #:** 1-783104-300



## 1,3,5-Triazines

*ethyl 1-((4-amino-6-[(4-methoxyphenyl)amino]-1,3,5-triazin-2-yl)methyl)-3-piperidinecarboxylate*

**Column:** RegisPack,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (80/20)

Hexane/Ethanol + 0.1% DEA

**Flow Rate:** 1.5 mL/min

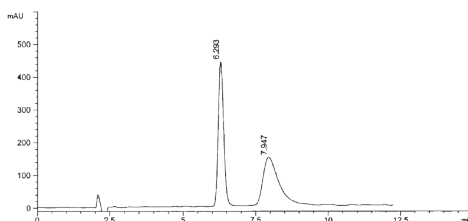
**Detection:** UV 220 nm

**k':** 2.31

**k'':** 3.18

**$\alpha$ :** 1.38

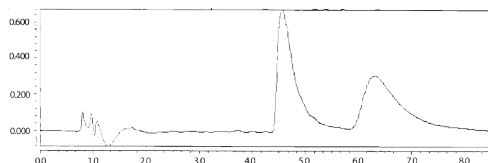
**Catalog #:** 1-783104-300



## 1,3,5-Triazines

*ethyl 1-((4-amino-6-[(4-methoxyphenyl)amino]-1,3,5-triazin-2-yl)methyl)-3-piperidinecarboxylate*

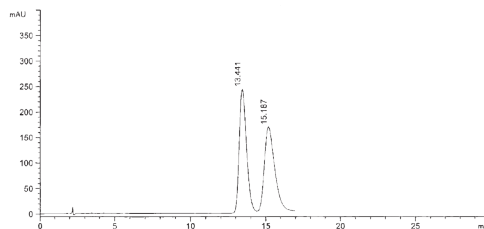
**Column:** RegisPack, 5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (80/20) CO<sub>2</sub>/Ethanol + 2% DEA  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40 °C  
**Pressure:** 125 bar  
**Detection:** UV 220 nm  
**k':** 5.09  
**k'':** 7.43  
 **$\alpha$ :** 1.46  
**Catalog #:** 1-783104-300



## 1,3,5-Triazines

*N-(sec-butyl)-6-[(6-ethoxy-3-pyridazinyl)oxy]-N'-ethyl-1,3,5-triazine-2,4-diamine*

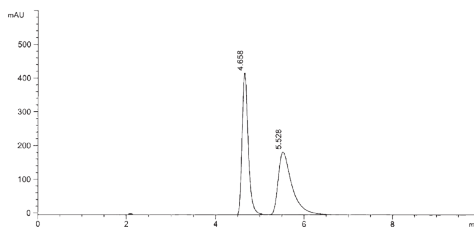
**Column:** RegisPack, 5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (95/5) Hexane/Ethanol  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
**k':** 6.07  
**k'':** 6.99  
 **$\alpha$ :** 1.15  
**Catalog #:** 1-783104-300



## 1,3,5-Triazines

*ethyl 1-((4-amino-6-[(4-methylphenyl)amino]-1,3,5-triazin-2-yl)methyl)-3-piperidinecarboxylate*

**Column:** RegisPack, 5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (80/20) Hexane/Ethanol  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
**k':** 1.45  
**k'':** 1.91  
 **$\alpha$ :** 1.32  
**Catalog #:** 1-783104-300



## 1,3,5-Triazines

*ethyl 1-((4-amino-6-[(4-methylphenyl)amino]-1,3,5-triazin-2-yl)methyl)-3-piperidinecarboxylate*

**Column:** RegisPack, 5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (80/20)  $\text{CO}_2$ /IPA + 2% DEA

**Flow Rate:** 4.0 mL/min

**Temperature:** 40  $^\circ\text{C}$

**Pressure:** 125 bar

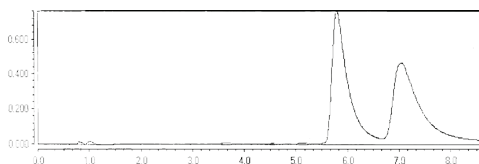
**Detection:** UV 254 nm

**$k'$ 1:** 6.73

**$k'$ 2:** 8.40

**$\alpha$ :** 1.25

**Catalog #:** 1-783104-300



## 1,3,5-Triazines

*ethyl 1-((4-amino-6-[(4-methylphenyl)amino]-1,3,5-triazin-2-yl)methyl)-3-piperidinecarboxylate*

**Column:** RegisCell,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (90/10)

Hexane/IPA + 0.1% DEA

**Flow Rate:** 1.5 mL/min

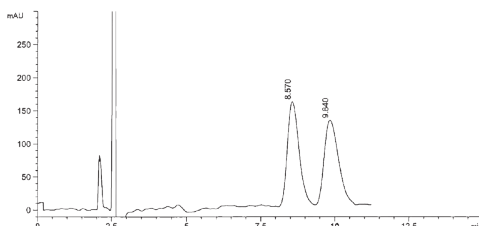
**Detection:** UV 220 nm

**$k'$ 1:** 3.51

**$k'$ 2:** 4.18

**$\alpha$ :** 1.19

**Catalog #:** 1-784104-300



## Trichlorfon

**Column:** Reflect I-Cellulose B,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (90/10)  $\text{CO}_2$ /Methanol

**Flow Rate:** 3.0 mL/min

**Temperature:** 30  $^\circ\text{C}$

**Pressure:** 150 bar

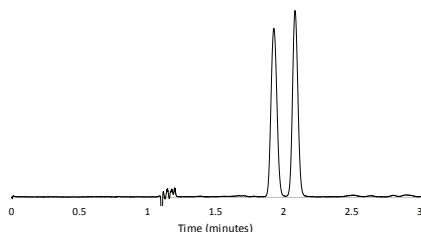
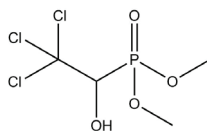
**Detection:** UV 210 nm

**$k'$ 1:** 0.92

**$\alpha$ :** 1.17

**CAS #:** 52-68-6

**Catalog #:** 1-592204-300



## Trichlorfon

**Column:** Reflect C-Amylose A,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (90/10)  $\text{CO}_2$ /IPA

**Flow Rate:** 3.0 mL/min

**Temperature:** 30  $^\circ\text{C}$

**Pressure:** 150 bar

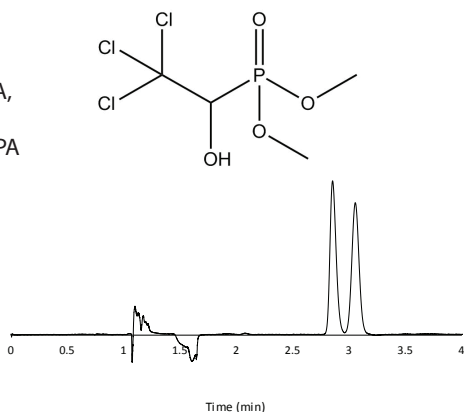
**Detection:** UV 210 nm

**$k'$ :** 1.85

**$\alpha$ :** 1.11

**CAS #:** 52-68-6

**Catalog #:** 1-580204-300



## Trichlorfon

**Column:** Reflect C-Cellulose B,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (95/5)  $\text{CO}_2$ /Methanol

**Flow Rate:** 3.0 mL/min

**Temperature:** 30  $^\circ\text{C}$

**Pressure:** 150 bar

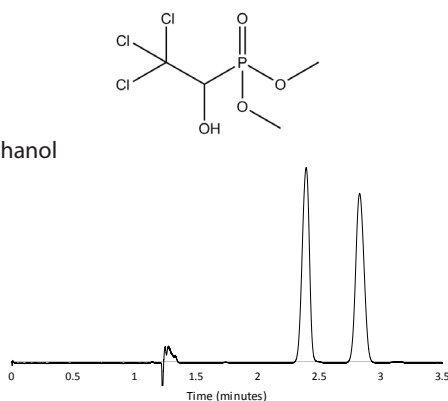
**Detection:** UV 210 nm

**$k'$ :** 1.39

**$\alpha$ :** 1.31

**CAS #:** 52-68-6

**Catalog #:** 1-590204-300



## Trichlormethiazide

**Column:** (R,R) ULMO,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (75/25)

Hexane/IPA

+ 0.1% Acetic Acid

**Flow Rate:** 1.5 mL/min

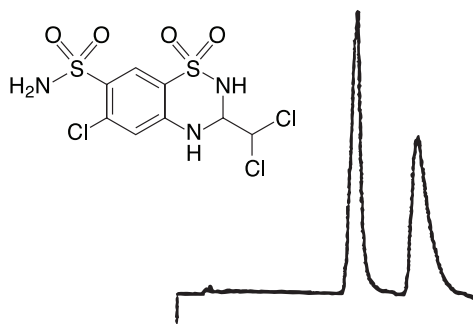
**Detection:** UV 254 nm

**Run Time:** 15.0 min

**$k'$ :** 5.16

**$\alpha$ :** 1.43

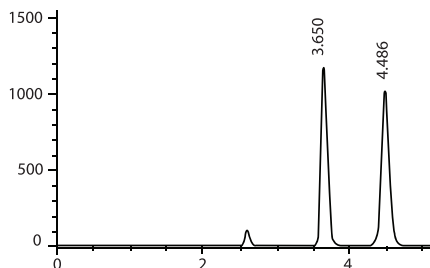
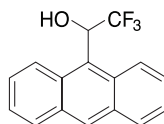
**Catalog #:** 1-787200-300





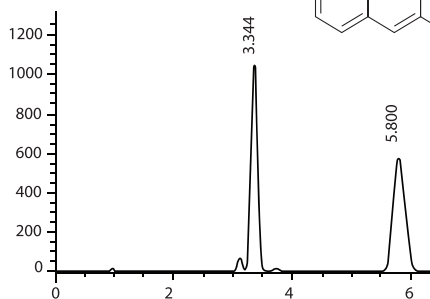
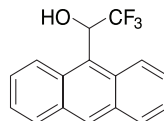
## 2,2,2-Trifluoro-1-(9-anthryl)-ethanol

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (85/15)  
Hexane/IPA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
 **$k'$ :** 0.92  
 **$\alpha$ :** 1.48  
**CAS #:** 60686-64-8  
**Catalog #:** 1-783104-300



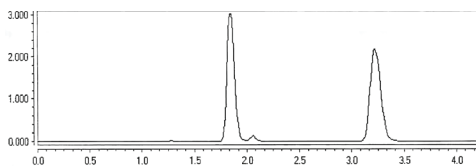
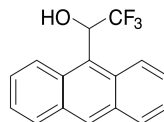
## 2,2,2-Trifluoro-1-(9-anthryl)-ethanol

**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (80/20)  
Hexane/IPA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
 **$k'$ :** 0.76  
 **$\alpha$ :** 2.70  
**CAS #:** 60686-64-8  
**Catalog #:** 1-784104-300



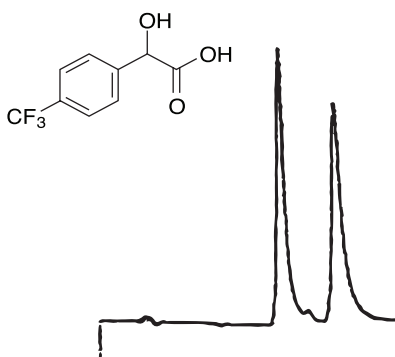
## 2,2,2-Trifluoro-1-(9-anthryl)-ethanol

**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (75/25)  
 $\text{CO}_2$ /IPA  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40  $^\circ\text{C}$   
**Pressure:** 124 bar  
**Detection:** UV 254 nm  
 **$k'$ :** 1.46  
 **$\alpha$ :** 2.27  
**Catalog #:** 1-784104-300



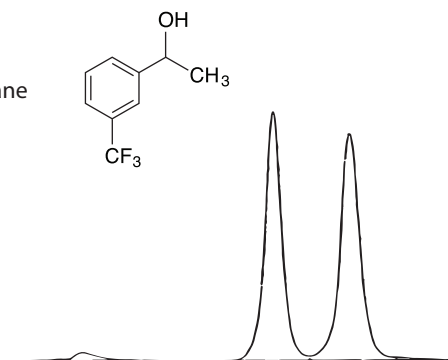
## 4-(Trifluoromethyl)mandelic Acid

**Column:** (S,S) Whelk-O 1,  
 5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (92/8)  
 Hexane/Ethanol  
 + 0.01 M Ammonium Acetate  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 11.0 min  
**k':** 3.59  
 **$\alpha$ :** 1.40  
**Catalog #:** 1-780101-300



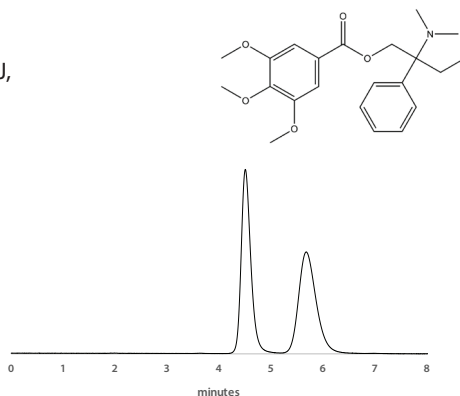
## 1-(m-Trifluoromethylphenyl) Ethanol

**Column:** (S,S) ULMO,  
 5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (98.5/1.5)  
 n-Heptane/1,2-Dimethoxyethane  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 9.0 min  
**k':** 1.66  
 **$\alpha$ :** 1.14  
**Reference:** 55  
**Catalog #:** 1-787100-300



## Trimebutine

**Column:** Reflect I-Cellulose J,  
 5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (80/20)  
 Hexane/Ethanol  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**k':** 1.25  
 **$\alpha$ :** 1.47  
**CAS #:** 39133-31-8  
**Catalog #:** 1-594204-300



## Trimebutine

**Column:** Reflect C-Amylose A,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (97/3/0.1)

Hexane/Ethanol/DEA

**Flow Rate:** 1.5 mL/min

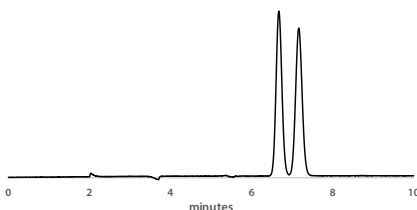
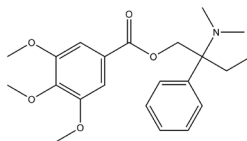
**Detection:** UV 254 nm

**$k'_1$ :** 2.33

**$\alpha$ :** 1.11

**CAS #:** 39133-31-8

**Catalog #:** 1-580204-300



## 1,1,2-Triphenyl-1,2-Ethanediol

**Column:** (S,S) ULMO,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (99/1)

Heptane/IPA

**Flow Rate:** 1.0 mL/min

**Detection:** UV 215 nm

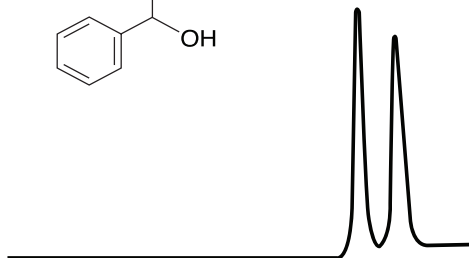
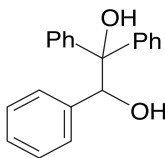
**Run Time:** 13 min

**$k'_1$ :** 2.59

**$\alpha$ :** 1.14

**Reference:** 43

**Catalog #:** 1-787200-300



## 1,3,5-Triphenylpent-4-yn-1-one

**Column:** (S,S) ULMO,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** 100%

Hexane + 0.5% IPA

**Flow Rate:** 1.0 mL/min

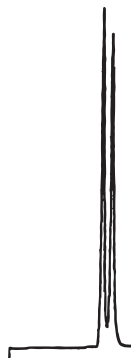
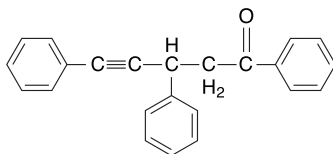
**Detection:** UV 254 nm

**Run Time:** 6.5 min

**$k'_1$ :** 1.19

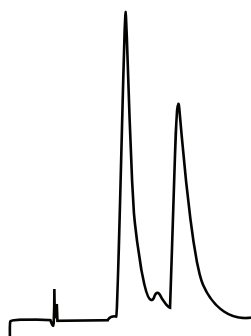
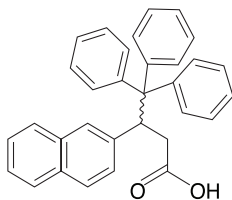
**$\alpha$ :** 1.19

**Catalog #:** 1-787100-300



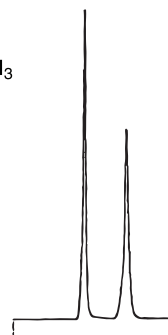
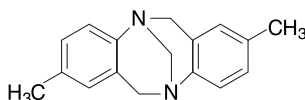
## $\alpha$ -Trityl-2-naphthalene Propionic Acid

**Column:** (R,R) ULMO,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (97/3)  
Heptane/IPA  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 10.0 min  
**k'**: 1.57  
 **$\alpha$ :** 1.79  
**Catalog #:** 1-787200-300



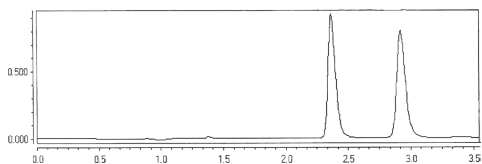
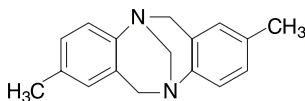
## Troger's Base

**Column:** (R,R) Whelk-O 1,  
10  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (96/4)  
Hexane/Ethanol  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 10.0 min  
**k'**: 2.52  
 **$\alpha$ :** 1.80  
**Catalog #:** 1-786515-300



## Troger's Base

**Column:** (S,S) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (75/25)  
CO<sub>2</sub>/Ethanol  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40 °C  
**Pressure:** 125 bar  
**Detection:** UV 254 nm  
**k'**: 2.13  
 **$\alpha$ :** 1.34  
**Catalog #:** 1-780101-300



## Troger's Base

**Column:** Reflect C-Amylose A,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (80/20)

Hexane/Ethanol

**Flow Rate:** 1.5 mL/min

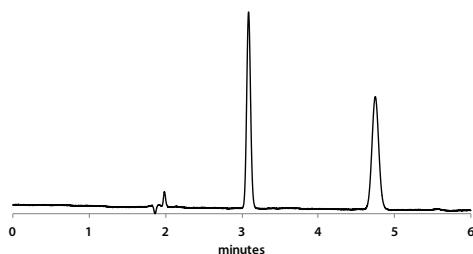
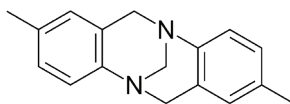
**Detection:** UV 220 nm

**$k'$ :** 0.54

**$\alpha$ :** 2.53

**CAS #:** 529-81-7

**Catalog #:** 1-580204-300



## Troger's Base

**Column:** Reflect I-Amylose A,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (80/20) Hexane/  
Ethanol

**Flow Rate:** 1.5 mL/min

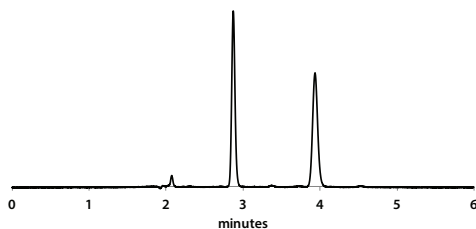
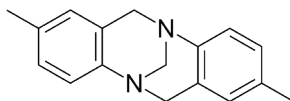
**Detection:** UV 220 nm

**$k'$ :** 0.44

**$\alpha$ :** 2.21

**CAS #:** 529-81-7

**Catalog #:** 1-591204-300



## Troger's Base

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (70/30)

$\text{CO}_2$ /Ethanol

**Flow Rate:** 4.0 mL/min

**Temperature:** 40  $^\circ\text{C}$

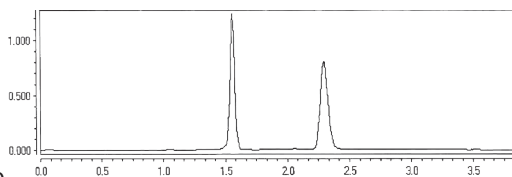
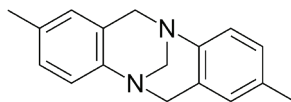
**Pressure:** 125 bar

**Detection:** UV 254 nm

**$k'$ :** 1.08

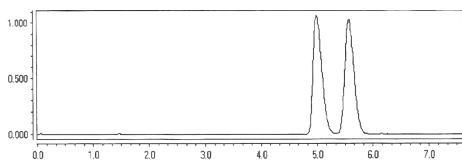
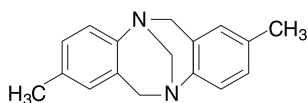
**$\alpha$ :** 1.91

**Catalog #:** 1-783104-300



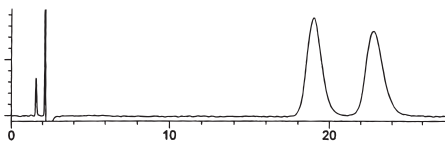
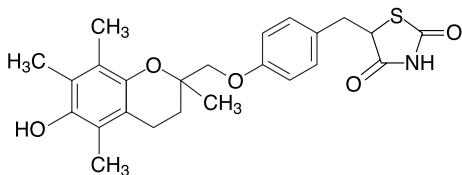
## Troger's Base

**Column:** RegisCell,  
5  $\mu$ m, 25 cm x 4.6 mm  
**Mobile Phase:** (95/5)  
CO<sub>2</sub>/Ethanol  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40 °C  
**Pressure:** 125 bar  
**Detection:** UV 254 nm  
**k'**: 5.66  
 **$\alpha$ :** 1.14  
**Catalog #:** 1-784104-300



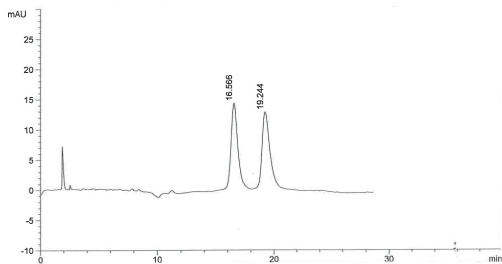
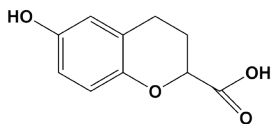
## Troglitazone

**Column:** (S,S) Whelk-O 1,  
10  $\mu$ m, 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
Hexane/IPA  
+ 0.1% Acetic Acid  
**Flow Rate:** 2.0 mL/min  
**Detection:** UV 220 nm  
**k'**: 13.05  
 **$\alpha$ :** 1.22  
**Catalog #:** 1-786615-300



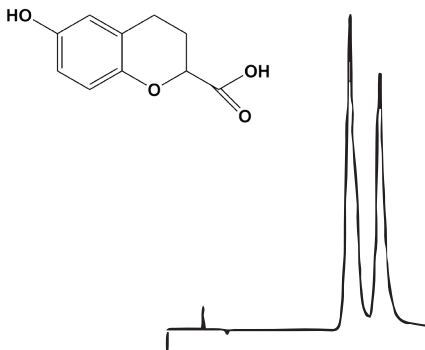
## Trolox

**Column:** (S,S) Whelk-O 1,  
5  $\mu$ m, 25 cm x 4.6 mm  
**Mobile Phase:** (95/5)  
Hexane/Ethanol + 0.1 %  
DEA + 0.1% Acetic Acid  
**Flow Rate:** 2.0 mL/min  
**Detection:** UV 254 nm  
**k'**: 7.58  
 **$\alpha$ :** 1.18  
**Catalog #:** 1-780101-300



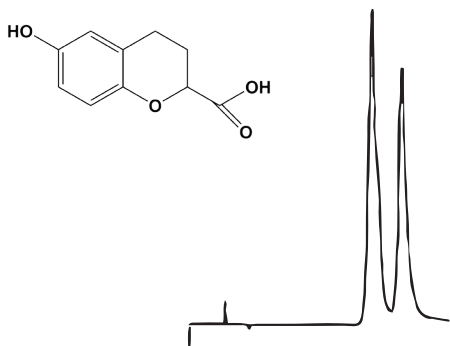
## Trolox

**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (95/5)  
Hexane/IPA + 0.1 % HOAc  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 19 min  
**k':** 5.09  
 **$\alpha$ :** 1.21  
**Catalog #:** 1-780101-300,  
1-780201-300



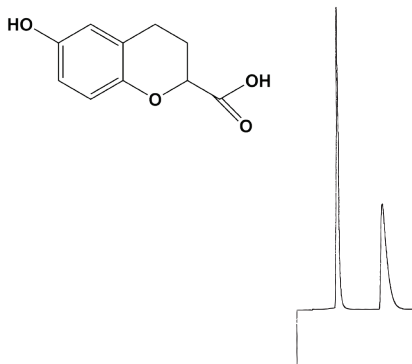
## Trolox

**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (95/5)  
Hexane/IPA + 0.1 % HOAc  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 19 min  
**k':** 5.09  
 **$\alpha$ :** 1.21  
**Catalog #:** 1-780101-300,  
1-780201-300



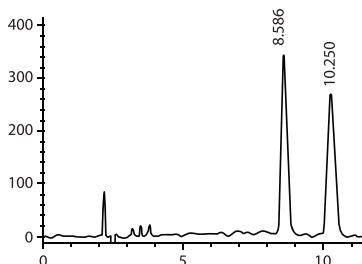
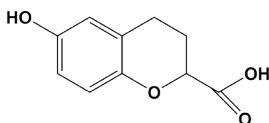
## Trolox

**Column:** (R,R) ULMO,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (95/5)  
Hexane/IPA  
+ 0.1% Acetic Acid  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 280 nm  
**Run Time:** 12.5 min  
**k':** 2.18  
 **$\alpha$ :** 2.68  
**Catalog #:** 1-787200-300



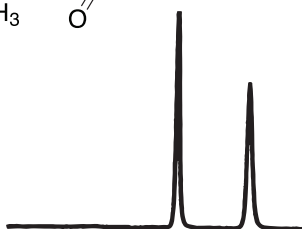
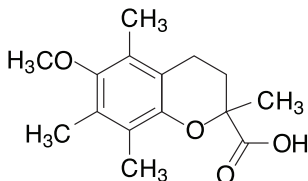
## Trolox

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (95/5)  
Hexane/IPA + 0.1% TFA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
**k'**: 3.45  
 **$\alpha$ :** 1.25  
**CAS #:** 53188-07-1  
**Catalog #:** 1-783104-300



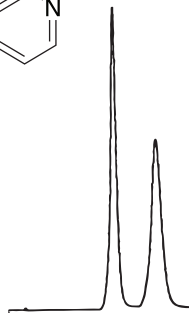
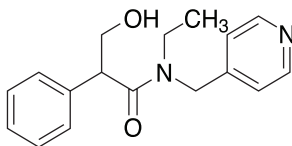
## Trolox-methylether

**Column:** (S,S) ULMO,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
Hexane/IPA + 0.1% TFA  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 6.0 min  
**k'**: 0.32  
 **$\alpha$ :** 2.50  
**Reference:** 43  
**Catalog #:** 1-787100-300



## Tropicamide

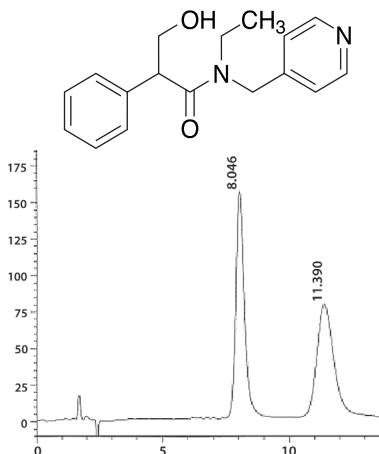
**Column:** (R,R) Whelk-O 1,  
10  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (75/25)  
Hexane/Ethanol  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 13.9 min  
**k'**: 4.52  
 **$\alpha$ :** 1.49  
**Catalog #:** 1-786515-300





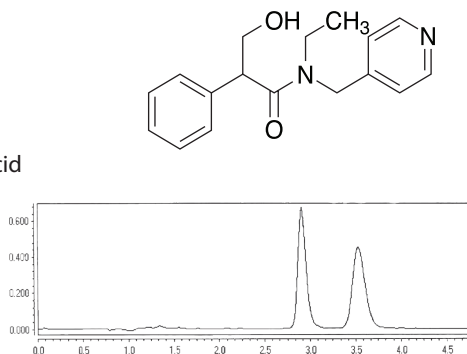
## Tropicamide

**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (70/30)  
Hexane/Ethanol  
+ 0.1% Acetic Acid  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
**k'**: 3.17  
 **$\alpha$ :** 1.55  
**Catalog #:** 1-780101-300,  
1-780201-300



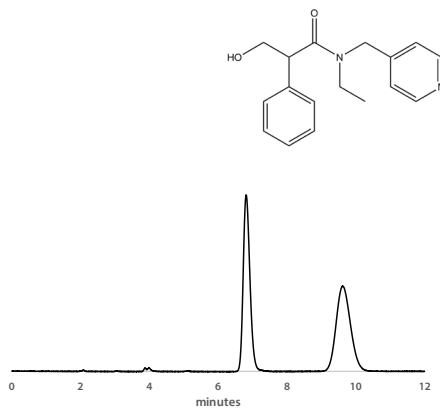
## Tropicamide

**Column:** (S,S) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (70/30)  
CO<sub>2</sub>/Ethanol + 0.5% Acetic Acid  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40 °C  
**Pressure:** 125 bar  
**Detection:** UV 254 nm  
**k'**: 2.88  
 **$\alpha$ :** 1.29  
**Catalog #:** 1-780101-300

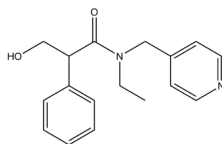


## Tropicamide

**Column:** Reflect I-Amylose A,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (85/15)  
Hexane/Ethanol  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
**k'**: 6.40  
 **$\alpha$ :** 1.58  
**CAS #:** 1508-75-4  
**Catalog #:** 1-591204-300



## Tropicamide



**Column:** Reflect C-Amylose A,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (85/15)

Hexane/Ethanol

**Flow Rate:** 1.5 mL/min

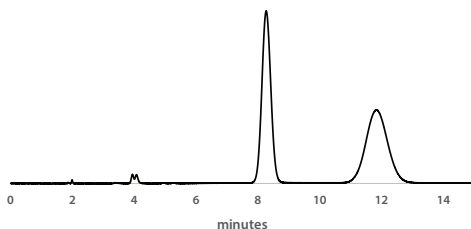
**Detection:** UV 220 nm

**$k'$ :** 3.12

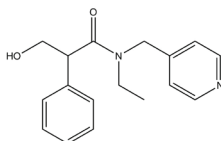
**$\alpha$ :** 1.57

**CAS #:** 1508-75-4

**Catalog #:** 1-580204-300



## Tropicamide



**Column:** Reflect I-Cellulose J,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (80/20)

Hexane/Ethanol

**Flow Rate:** 1.5 mL/min

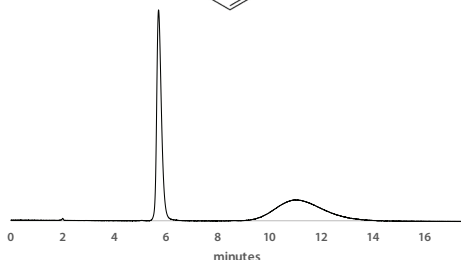
**Detection:** UV 220 nm

**$k'$ :** 1.85

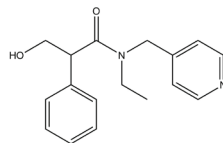
**$\alpha$ :** 2.43

**CAS #:** 1508-75-4

**Catalog #:** 1-594204-300



## Tropicamide



**Column:** Reflect I-Cellulose J,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (90/10) CO<sub>2</sub>/

Methanol

**Flow Rate:** 3.0 mL/min

**Detection:** UV 254 nm

**Temperature:** 40 °C

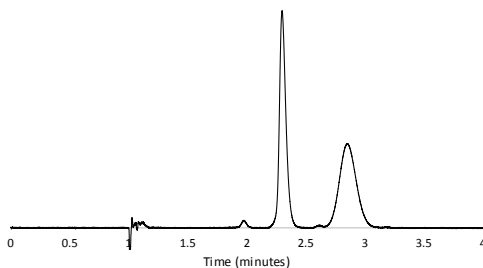
**Pressure:** 150 bar

**$k'$ :** 1.29

**$\alpha$ :** 1.43

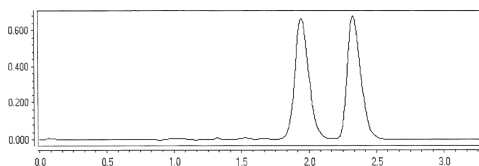
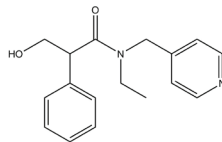
**CAS #:** 1508-75-4

**Catalog #:** 1-594204-300



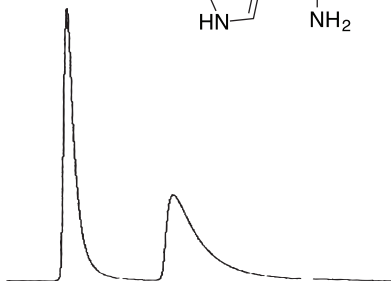
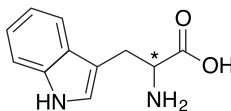
## Tropicamide

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (80/20)  
 $\text{CO}_2/\text{CH}_3\text{OH}$   
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40  $^\circ\text{C}$   
**Pressure:** 124 bar  
**Detection:** UV 254 nm  
 **$k'$ :** 1.59  
 **$\alpha$ :** 1.32  
**Catalog #:** 1-783104-300



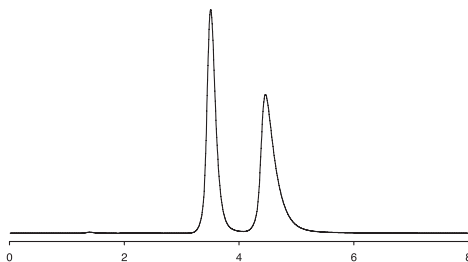
## Tryptophan

**Column:** ChiroSil,  
5  $\mu\text{m}$ , 15 cm x 4.6 mm  
**Mobile Phase:** (70/30)  
 $\text{CH}_3\text{OH}/\text{H}_2\text{O}$   
+10 mM Acetic Acid  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 210 nm  
**Run Time:** 11.01 min  
 **$k'$ :** 4.06  
 **$k'$ :** 8.72  
 **$\alpha$ :** 2.15  
**Catalog #:** 1-799001-300,  
1-799101-300



## DL-Tryptophane

**Column:** ChiroSil ME RCA(+),  
5  $\mu\text{m}$ , 15 cm x 4.6 mm  
**Mobile Phase:** (30/70)  
0.01% Phosphoric Acid/MeOH  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 210 nm  
**Temperature:** 20  $^\circ\text{C}$   
 **$k'$ :** 0.86  
 **$\alpha$ :** 1.59  
**Catalog #:** 1-788001-300



## Tulobuterol

**Column:** Reflect I-Cellulose C,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (99/1/0.1)

Hexane/Ethanol/DEA

**Flow Rate:** 1.5 mL/min

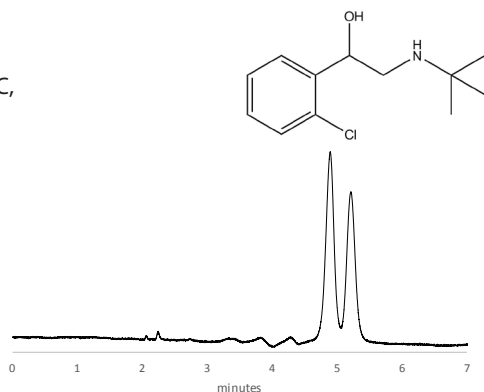
**Detection:** UV 254 nm

**k'**: 144

**$\alpha$ :** 1.11

**CAS#:** 56776-01-3

**Catalog #:** 1-593204-300



## Tulobuterol HCl

**Column:** (S)  $\alpha$ -Burke 2,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (91/9)

$\text{CH}_2\text{Cl}_2$ /Ethanol

+ 0.01 M Ammonium Acetate

**Flow Rate:** 1.5 mL/min

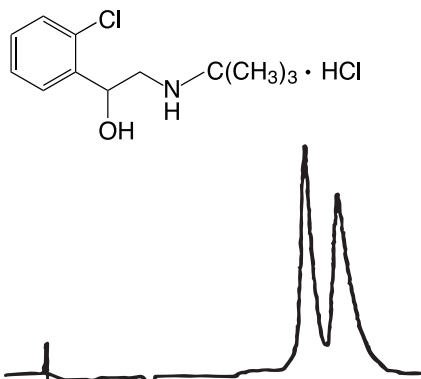
**Detection:** UV 254 nm

**Run Time:** 15.0 min

**k'**: 6.38

**$\alpha$ :** 1.13

**Catalog #:** 1-735037-300



## Tyrosine

**Column:** ChiroSil,

5  $\mu\text{m}$ , 15 cm x 4.6 mm

**Mobile Phase:** (70/30)

$\text{CH}_3\text{OH}/\text{H}_2\text{O}$

+10 mM Acetic Acid

**Flow Rate:** 1.5 mL/min

**Detection:** UV 210 nm

**Run Time:** 9.09 min

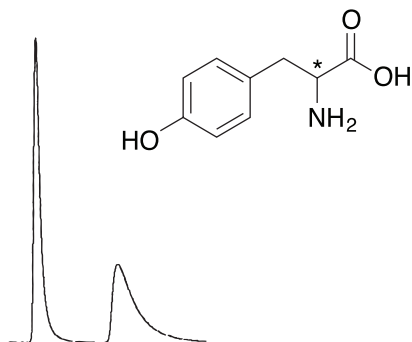
**k'**: 2.95

**k'**: 7.02

**$\alpha$ :** 2.38

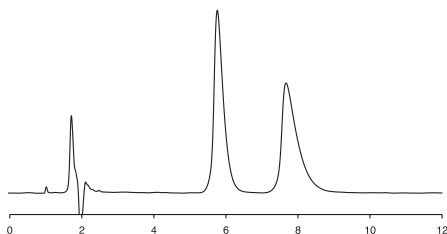
**Catalog #:** 1-799001-300,

1-799101-300



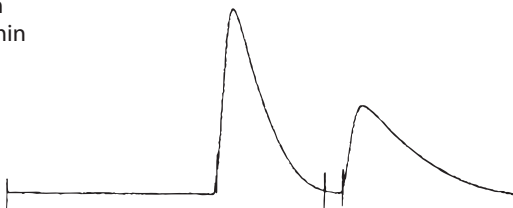
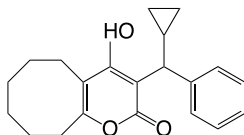
## DL-Tyrosine

**Column:** ChiroSil ME RCA(+),  
5  $\mu\text{m}$ , 15 cm x 4.6 mm  
**Mobile Phase:** (15/85)  
0.01% Phosphoric Acid/MeOH  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 210 nm  
**Temperature:** 40 °C  
**k':** 1.91  
 **$\alpha$ :** 1.51  
**Catalog #:** 1-788001-300



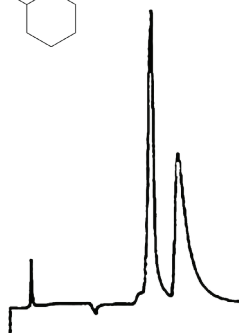
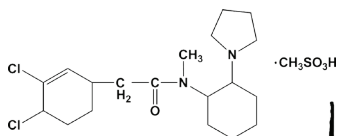
## U-100057

**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 5.1 cm  
**Mobile Phase:** (65/35)  
Hexane/IPA  
**Run Time:** 50 min  
**Sample Prep:** 90 mL/min  
to 34 min, then 120 mL/min  
**Sample Load:** 1.9 g  
**Reference:** 34



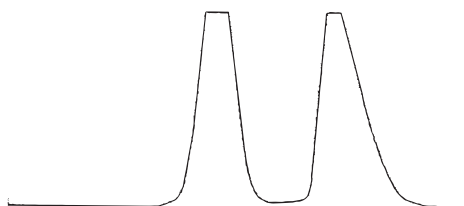
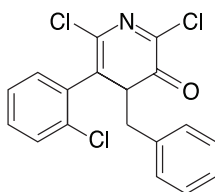
## trans-U-50488H

**Column:** (3R,4S) Pirkle 1-J,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (92/8)  
Hexane/Ethanol  
+ 0.01 M Ammonium Acetate  
**Flow Rate:** 2.0 mL/min  
**Detection:** UV 220 nm  
**Run Time:** 12.0 min  
**k':** 6.71  
 **$\alpha$ :** 1.27  
**Catalog #:** 1-731044-300



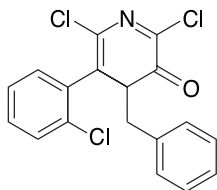
## U-94863

**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 2.1 cm  
**Mobile Phase:** (70/30)  
Hexane/IPA + 0.5% HOAc  
**Flow Rate:** 12.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 12 min  
**Sample Load:** 40 mg  
**Reference:** 34



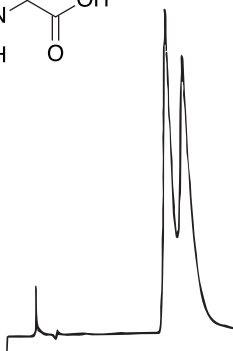
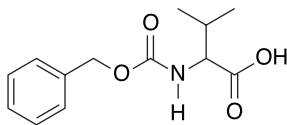
## U-94863

**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (40/60)  
Hexane/IPA + 0.5% HOAc  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 15 min  
 **$k'$ :** 2.26  
 **$\alpha$ :** 1.95  
**Reference:** 34  
**Catalog #:** 1-780101-300  
1-780201-300



## CBZ-Val

**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (95/5)  
Hexane/IPA + 0.1% HOAc  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 19 min  
 **$k'$ :** 5.49  
 **$\alpha$ :** 1.13  
**Catalog #:** 1-780101-300,  
1-780201-300



## CBZ-DL-Valine

**Column:** Reflect C-Amylose A,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (50/50/0.1)  
Hexane/Ethanol/Acetic Acid

**Flow Rate:** 1.5 mL/min

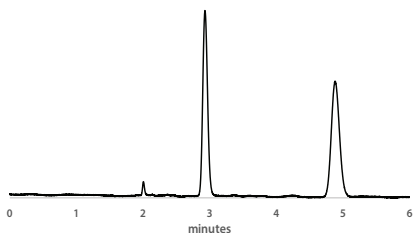
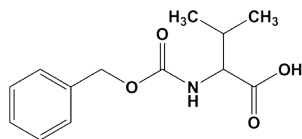
**Detection:** UV 220 nm

**k':** 0.46

**$\alpha$ :** 3.11

**CAS #:** 3588-63-4

**Catalog #:** 1-580204-300



## CBZ-DL-Valine

**Column:** Reflect C-Cellulose B,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (75/25/0.1)  
Hexane/Ethanol/Acetic Acid

**Flow Rate:** 1.5 mL/min

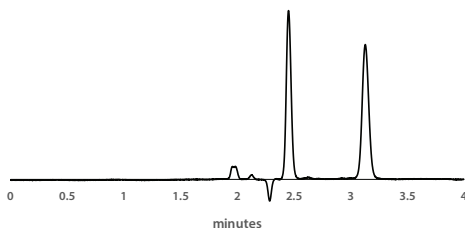
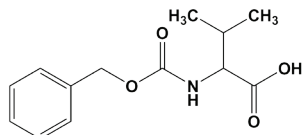
**Detection:** UV 220 nm

**k':** 0.27

**$\alpha$ :** 2.08

**CAS #:** 3588-63-4

**Catalog #:** 1-590204-300



## CBZ-DL-Valine

**Column:** Reflect I-Amylose A,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (75/25/0.1)  
Hexane/Ethanol/Acetic Acid

**Flow Rate:** 1.5 mL/min

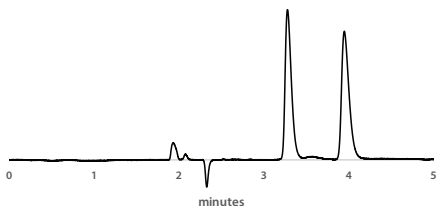
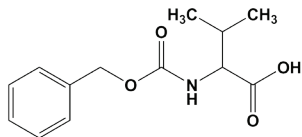
**Detection:** UV 220 nm

**k':** 0.64

**$\alpha$ :** 1.52

**CAS #:** 3588-63-4

**Catalog #:** 1-591204-300



## CBZ-DL-Valine

**Column:** Reflect I-Cellulose B,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (75/25/0.1)  
Hexane/Ethanol/Acetic Acid

**Flow Rate:** 1.5 mL/min

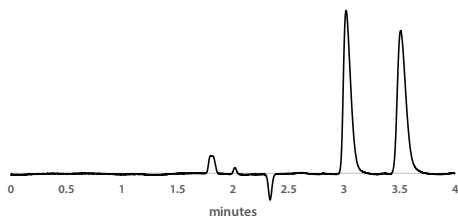
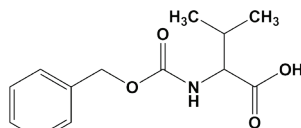
**Detection:** UV 220 nm

**k':** 0.51

**$\alpha$ :** 1.48

**CAS #:** 3588-63-4

**Catalog #:** 1-592204-300



## CBZ-DL-Valine

**Column:** Reflect I-Cellulose C,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (90/10/0.1)  
Hexane/Ethanol/Acetic Acid

**Flow Rate:** 1.5 mL/min

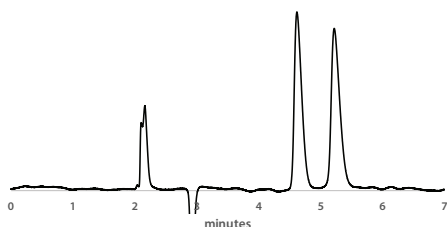
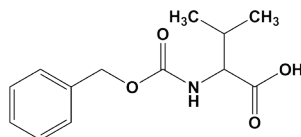
**Detection:** UV 220 nm

**k':** 1.31

**$\alpha$ :** 1.23

**CAS #:** 3588-63-4

**Catalog #:** 1-593204-300



## DL-Valine

**Column:** ChiroSil ME RCA(+),  
5  $\mu\text{m}$ , 15 cm x 4.6 mm

**Mobile Phase:** (20/80)  
5 mM Sulfonic Acid/MeOH

**Flow Rate:** 0.8 mL/min

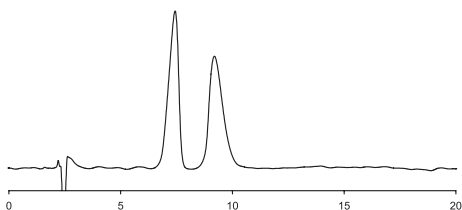
**Detection:** UV 210 nm

**Temperature:** 25°C

**k':** 2.02

**$\alpha$ :** 1.35

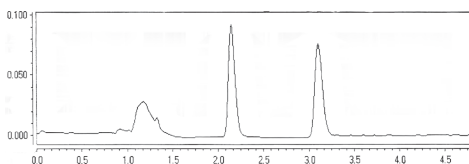
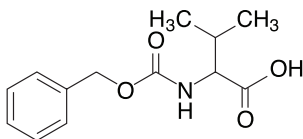
**Catalog #:** 1-788001-300





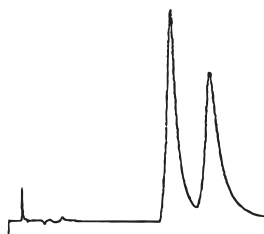
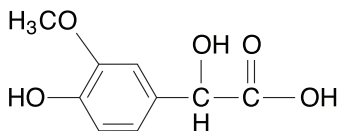
## N-CBZ-Valine

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (85/15)  
CO<sub>2</sub>/Ethanol + 0.5% TFA  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40 °C  
**Pressure:** 124 bar  
**Detection:** UV 254 nm  
**k':** 1.87  
 **$\alpha$ :** 1.68  
**CAS #:** 3588-63-4  
**Catalog #:** 1-783104-300



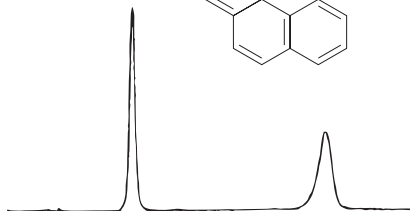
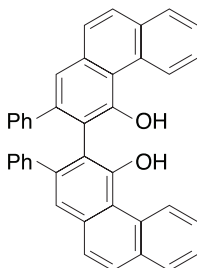
## Vanilmandelic Acid

**Column:** (S,S) Whelk-O 1,  
10  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (85/15)  
Hexane/Ethanol  
+ 0.01 M Ammonium Acetate  
**Flow Rate:** 2.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 22.0 min  
**k':** 12.34  
 **$\alpha$ :** 1.27  
**Catalog #:** 1-786615-300



## Vaprol

**Column:** (R,R) ULMO,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** 100%  
Methanol  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 13 min  
**k':** 1.74  
 **$\alpha$ :** 3.37  
**Reference:** 43  
**Catalog #:** 1-787200-300



## Verapamil

**Column:** Reflect C-Amylose A,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (95/5/0.1)

Hexne/Ethanol/DEA

**Flow Rate:** 1.5 mL/min

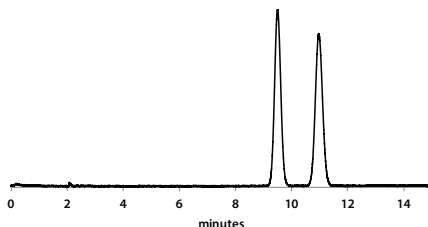
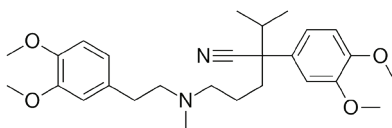
**Detection:** UV 290 nm

**k':** 3.74

**$\alpha$ :** 1.20

**CAS #:** 52-53-9

**Catalog #:** 1-580204-300



## Verapamil

**Column:** Reflect I-Amylose A,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (95/5/0.1)

Hexane/Ethanol/DEA

**Flow Rate:** 1.5 mL/min

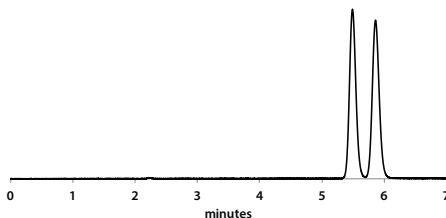
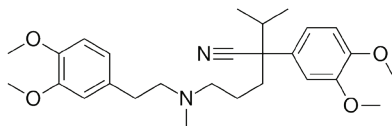
**Detection:** UV 290 nm

**k':** 1.74

**$\alpha$ :** 1.11

**CAS #:** 52-53-9

**Catalog #:** 1-591204-300



## Vesamicol

**Column:** RegisPack,

5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (90/10)

Hexane/IPA + 0.1% TFA

**Flow Rate:** 1.5 mL/min

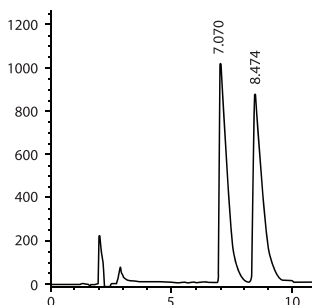
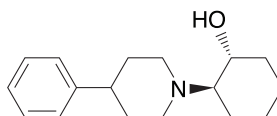
**Detection:** UV 210 nm

**k':** 2.72

**$\alpha$ :** 1.27

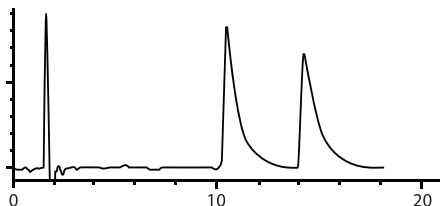
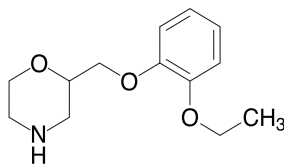
**CAS #:** 120447-62-3

**Catalog #:** 1-783104-300



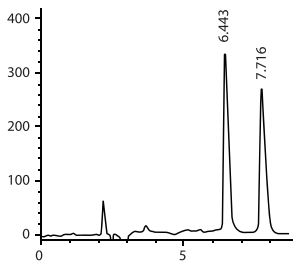
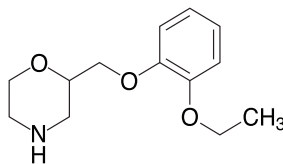
## Viloxazine

**Column:** (R,R) Whelk-O 1,  
10  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
Hexane/Ethanol + 0.1% TFA  
**Flow Rate:** 2.0 mL/min  
**Detection:** UV 220 nm  
 **$k'$ :** 6.46  
 **$\alpha$ :** 1.42  
**Catalog #:** 1-786515-300



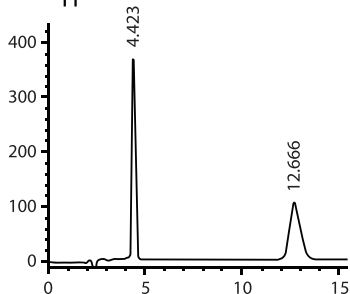
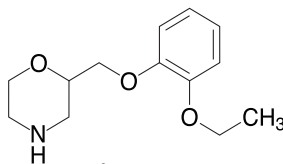
## Viloxazine

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
Hexane/Ethanol + 0.1% DEA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
**Run Time:** 12.0 min  
 **$k'$ :** 2.34  
 **$\alpha$ :** 1.28  
**CAS #:** 46817-91-8  
**Catalog #:** 1-783104-300



## Viloxazine

**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (50/50)  
Hexane/ethanol + 0.1% DEA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
 **$k'$ :** 1.29  
 **$\alpha$ :** 4.31  
**CAS #:** 46817-91-8  
**Catalog #:** 1-784104-300



## Vinclozolin

**Column:** Reflect I-Amylose A,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (90/10)  $\text{CO}_2$ /  
Methanol

**Flow Rate:** 3.0 mL/min

**Temperature:** 30  $^\circ\text{C}$

**Pressure:** 150 bar

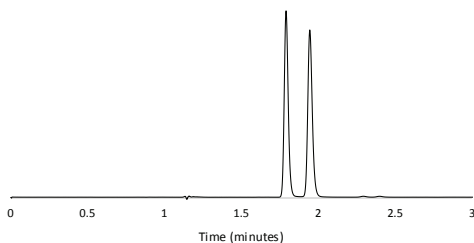
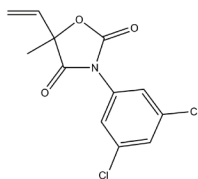
**Detection:** UV 210 nm

**$k'$ :** 1.79

**$\alpha$ :** 1.20

**CAS #:** 50471-44-8

**Catalog #:** 1-591204-300



## Vinclozolin

**Column:** Reflect C-Amylose A,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (90/10)  $\text{CO}_2$ /  
Methanol

**Flow Rate:** 3.0 mL/min

**Temperature:** 30  $^\circ\text{C}$

**Pressure:** 150 bar

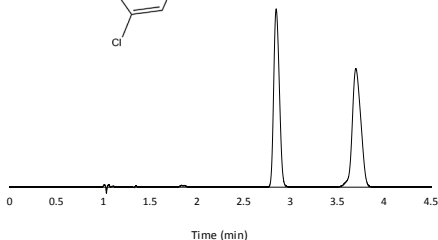
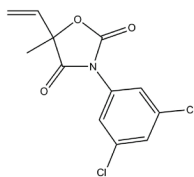
**Detection:** UV 210 nm

**$k'$ :** 1.84

**$\alpha$ :** 1.46

**CAS #:** 50471-44-8

**Catalog #:** 1-580204-300



## Warfarin

**Column:** (S,S) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (60/40)  
Hexane/Ethanol

+ 0.1% Acetic Acid

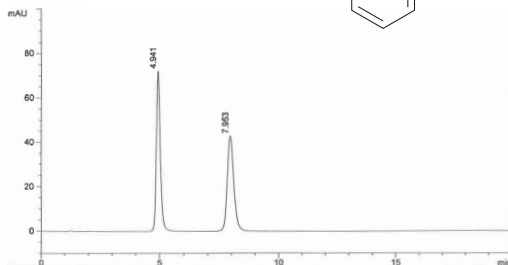
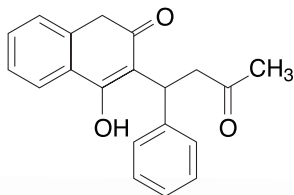
**Flow Rate:** 1.5 mL/min

**Detection:** UV 254 nm

**$k'$ :** 1.56

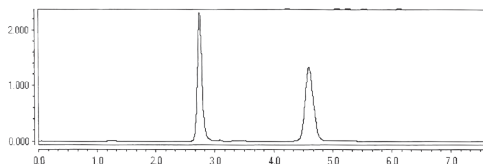
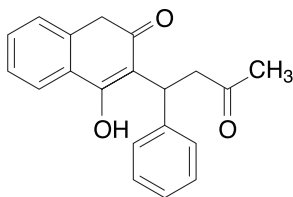
**$\alpha$ :** 2.00

**Catalog #:** 1-780101-300



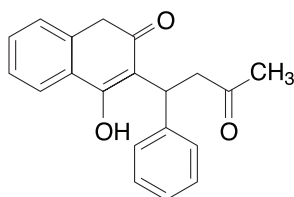
## Warfarin

**Column:** (S,S) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (65/35)  
CO<sub>2</sub>/Ethanol + 0.5% Acetic Acid  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40 °C  
**Pressure:** 125 bar  
**Detection:** UV 254 nm  
**k'**: 2.67  
 **$\alpha$ :** 1.92  
**Catalog #:** 1-780101-300



## Warfarin

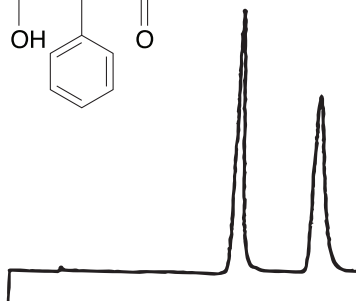
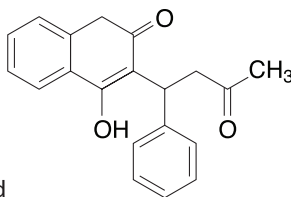
**Column:** (R,R) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (65/35)  
Hexane/IPA  
+ 0.1% Acetic Acid  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 11.5 min  
**k'**: 1.54  
 **$\alpha$ :** 2.07  
**Catalog #:** 1-780201-300



## Warfarin

*Reversed Phase*

**Column:** (R,R) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (70/30)  
CH<sub>3</sub>OH/H<sub>2</sub>O + 0.1% Acetic Acid  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 15.0 min  
**k'**: 3.54  
 **$\alpha$ :** 1.55  
**Catalog #:** 1-780201-300



## Warfarin

**Column:** Reflect C-Amylose A,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (80/20/0.1)

Hexane/

Ethanol/Acetic Acid

**Flow Rate:** 1.5 mL/min

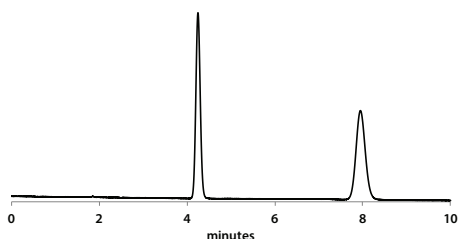
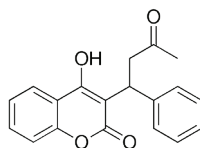
**Detection:** UV 254 nm

**k':** 1.12

**$\alpha$ :** 2.65

**CAS #:** 81-81-2

**Catalog #:** 1-580204-300



## Warfarin

**Column:** Reflect I-Amylose A,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (80/20/0.1)

Hexane/Ethanol/Acetic Acid

**Flow Rate:** 1.5 mL/min

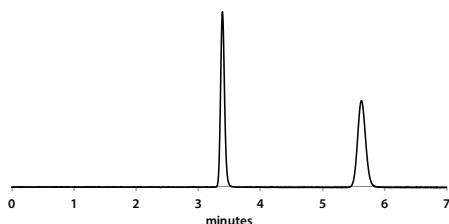
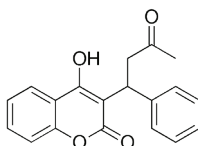
**Detection:** UV 254 nm

**k':** 0.69

**$\alpha$ :** 2.61

**CAS #:** 81-81-2

**Catalog #:** 1-591204-300



## Warfarin

**Column:** (S,S) ULMO,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm

**Mobile Phase:** (70/30)

Heptane/IPA + 0.1% TFA

**Flow Rate:** 1.0 mL/min

**Detection:** UV 230 nm

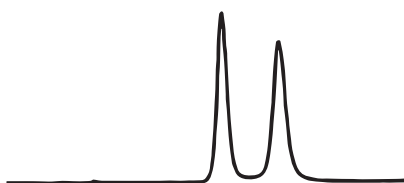
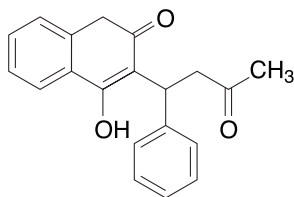
**Run Time:** 6.5 min

**k':** 0.89

**$\alpha$ :** 1.36

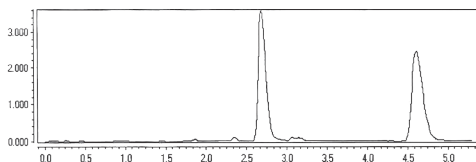
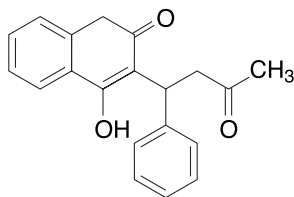
**Reference:** 43

**Catalog #:** 1-787100-300



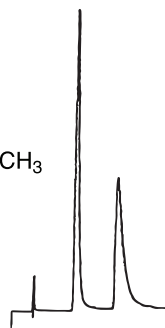
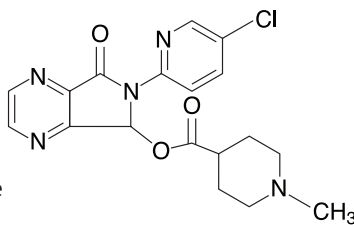
## Warfarin

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (80/20)  
CO<sub>2</sub>/Ethanol  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40 °C  
**Pressure:** 125 bar  
**Detection:** UV 254 nm  
**k':** 2.58  
 **$\alpha$ :** 1.99  
**Catalog #:** 1-783104-300



## Zopiclone

**Column:** (R,R) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (95/5)  
CH<sub>2</sub>Cl<sub>2</sub>/Ethanol  
+ 0.01 M Ammonium Acetate  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 8.5 min  
**k':** 1.94  
 **$\alpha$ :** 2.01  
**Catalog #:** 1-780201-300



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## Index

- Abscisic Acid, 42  
 2-cis-4-trans-Abscisic Acid (ABA), 43  
 2-trans-4-trans-Abscisic Acid, 43  
 ABA Methyl Ester, 44  
 Acenaphthenol, 44  
 1-Acenaphthenol, 44  
 1'-Acetoxychavicol Acetate, 46  
 Adam's Acid Diethylamide, 46  
 DL Alanine, 47  
 Alfuzosin, 48  
 Alprenolol, 48  
 Althiazide, 50  
 Aminoglutethimide, 50  
 Amlodipine, 51  
 1-Aminoindan, 50  
 Anatoxin-A, 51  
 Anisoic, 52  
 9-Anthrylethanol, 52  
 9-Anthryl Trifluoromethyl Carbinol, 52  
 DL-Arginine, 53  
 DL-Asparagine, 53  
 Atenolol, 54  
 Atropine, 55  
 Azelastine, 55  
 Bambuterol, 56  
 Bamethane, 56  
 Baycor, 57  
 Baytan, 58  
 Benalaxyl, 59  
 Bendroflumethiazide, 60  
 Benfluorex, 61  
 Benzoin, 61  
 1,3-Benzothiazoles, 66  
 1-(4-Benzoyloxy)phenyl Ethanol, 71  
 $\beta$ -Blocker, 72  
 Beta Naphthyl Methyl Carbinol, 72  
 Betaxolol, 73  
 Bicalutamide, 73  
 Bifonazole, 73  
 Bimatoprost, 74  
 1,1'-Bi-2-Naphthol, 74  
 1,1'-Binaphthol Monomethylether, 75  
 1,1'-binaphthyl-2,2'-  
   diylhydrogenphosphate, 75  
 Biphenyls, 75  
 BOC-Ala, 78  
 DL-BPA, 79  
 Bromacil, 79  
 1-(p-Bromophenyl) Ethanol, 81  
 Brompheniramine, 81  
 Bucetin, 81  
 Buckminsterfullerene-Enone [2+2  
   Photoadducts, 83  
 Budesonide, 84  
 Bufuralol, 84  
 Bupivacaine, 85  
 Bupranolol, 86  
 Butaclamol, 86  
 Calanolide A, 87  
 Calcium Channel Blocker, 88  
 Carazolol, 88  
 Carbinoxamine, 88  
 Carboxylic Acid, 89  
 Carprofen, 90  
 Cetirizine, 91  
 Chlorflurecol Methyl, 92  
 Chlorflurecolmethylester, 92  
 Chlormezanone, 93  
 4-Chloromandelic Acid, 96  
 2-(2-Chloro-4-methylphenoxy)propionic  
   Acid, 96  
 2-(3-Chlorophenoxy) Propionic Acid, 96  
 DL-4-Chloro-phenylalanine, 97  
 1-(m-Chlorophenyl) Ethanol, 97  
 1-(o-Chlorophenyl) Ethanol, 97  
 1-(p-Chlorophenyl) Ethanol, 98  
 Chloroquine, 98  
 p-Chloro-Warfarin, 98  
 Chlorphedianol, 99  
 Chlorpheniramine, 100  
 Chlorthalidone, 101  
 Chrysanthemic Acid-Ethyl Ester, 101  
 Cicloprofen, 102  
 Cisapride, 102  
 Citalopram, 103  
 Clenbuterol, 103  
 Combretastatin D-1, 103  
 Coumachlor, 104  
 Cromakalim, 105  
 Crotoxyphos, 107  
 Cycandelate, 108  
 1-Cyclohexyl-1-phenylacetic Acid, 109  
 Cyclopentyl Benzoyl-Diamide, 109  
 1-Cyclopentyl-1-phenylacetic Acid, 109  
 Cyclophosphamide, 110  
 Cyclothiazide, 110  
 cis:trans Cypermethrin, 110  
 Desethyloxybutynin, 111  
 Dexmedetomidine (Enriched), 111  
 trans-11,12-Diamino-9,10-dihy  
   dro-9,10-ethanoanthracene, 111  
 2,3-Dibenzoyl-Tartaric Acid, 112

- Diclofop Methyl, 112  
 Dihydroquinazolinones, 114  
 Dihydrotetabenazine, 122  
 r-7,t-8-Dihydroxy-t-9, 10-epoxy-7,8,9,10-tetrahydrobenzo[a]pyrene, 122  
 Dihydroxyphenylalanine, 127  
 Dimethenamid-P, 122  
 3,5-Dimethylanilide-R,S-Ibuprofen, 123  
 Dinocap, 123  
 Dinoseb, 123  
 Dipiperodon, 124  
 Disopyramide, 125  
 Ditoluoyltartaric Acid, 126  
 Dobutamine, 127  
 Enriched Dorzolamide, 128  
 Doxazosin, 128  
 DPHB, 129  
 Dropropizine, 130  
 Dylox, 131  
 Econazole, 132  
 EEDQ, 132  
 Epibatidine, 133  
 Epinastine, 133  
 EPN, 134  
 Ethionine, 135  
 Ethofumesate, 136  
 Ethotoine, 135  
 Ethyl-2-(p-Hydroxyphenoxy) Propionate, 137  
 Etodolac, 137  
 Fendiline, 137  
 Fenarimol, 138  
 Fenopropfen, 139  
 Fenoterol, 141  
 Fenoprop, 142  
 Fenoxaprop-ethyl, 142  
 Fenvalerate, 145  
 Fipronil, 146  
 Flavanone, 146  
 Flobufen and Flobufen Metabolites, 150  
 Flobufen Metabolites, 150  
 Fluazifop-butyl, 150  
 Flucythrinate, 151  
 Flurbiprofen, 152  
 4-Fluorophenylalanine, 154  
 1-(p-Fluorophenyl) Ethanol, 154  
 Fluridil, 154  
 Fluvastatin, 155  
 Formoterol, 155  
 Furalaxyl, 155  
 Glutamic Acid, 157  
 Glutamine, 157  
 Glutemide, 158  
 Haloxyfop-ethoxyethyl, 159  
 Hanessian's Lignan, 159  
 Hesperetin, 159  
 Hexobarbital, 160  
 Hippuryl-phenyllactic acid, 160  
 Histidine, 161  
 Homatropine, 161  
 Homocysteine-Thiolactone HCl, 162  
 DL-Homophenylalanine, 163  
 DL-Homo-Serine, 163  
 Huperzine, 163  
 Hydratropic Acid, 164  
 Hydrobenzoin, 164  
 2-(4-Hydroxy-Phenoxy) Propionic Acid, 168  
 1-(4-Hydroxyphenyl) Ethanol, 168  
 D,L-p-Hydroxy-Phenylglycine, 169  
 Hydroxyzine, 169  
 Ibuprofen, 170  
 Ibuprofenol, 172  
 Idazoxan, 172  
 Ifenprodil, 173  
 Imazalil, 174  
 Imazapyr, 175  
 1-Indanol, 175  
 Indapamide, 175  
 Indatraline, 178  
 Indole, 178  
 Indoprofen, 182  
 Ipsdienol, 183  
 Isoxsuprine, 183  
 Isradipine, 184  
 Ketamine, 185  
 Ketaconazole, 186  
 Ketoprofen, 188  
 Ketoprofen as 1-naphthylamide, 189  
 Ketorolac, 190  
 Kynurenine, 192  
 Lacosamide (Enriched), 192  
 $\beta$ -Lactam, 193  
 Lansoprazole, 193  
 Laudanosine, 195  
 Leptophos (Phosvel), 197  
 Lercanidipine, 197  
 Leucine, 198  
 Leucolines, 199  
 Linalool, 200  
 Lofexidine, 202  
 Lorazepam, 202  
 Lorglumide, 203

- Loxiglumide, 204  
Loxoprofen, 204  
Luciferin, 205  
Lysine, 205  
Mandelic Acid, 205  
Maraviroc, 207  
m-Cl Styrene Oxide, 207  
McN 5652, 207  
Meclizine, 208  
Mecoprop, 208  
Mecoprop Methyl, 211  
Medetomidine, 211  
Mefloquine, 211  
Mephenytoin, 212  
Mepivacaine, 212  
Mesogens, 213  
Metalaxyl, 213  
Metaproterenol, 216  
Methadone Hydrochloride, 217  
Methaqualone, 217  
Methionine, 218  
Methoxyphenamine, 219  
α-Methoxyphenyl Acetic Acid, 218  
1-(4-Methoxyphenyl)-2-butanol, 219  
1-(o-Methoxyphenyl) Ethanol, 219  
2-Methoxyphenyl Phenyl Carbinol, 220  
1-(4-Methoxyphenyl)-2-propanol, 220  
2-Methyl-1-Indanone, 220  
3-Methyl-1-Indanone, 221  
Methyl 3-phenyl-3-azido-2-hydroxypropionate, 221  
1-(m-Methylphenyl) Ethanol, 221  
1-(o-Methylphenyl) Ethanol, 222  
1-(p-Methylphenyl) Ethanol, 222  
2-Methyl-1-Tetralone, 223  
Methyl Mandelate, 222  
Methylphenidate, 223  
Metolachlor, 224  
Metolazone, 224  
Metoprolol, 225  
Mianserin, 226  
Midodrine, 227  
Mirtazapine, 228  
Modafinil, 2328  
Mosapride, 229  
Nadifloxacin, 230  
Nadolol, 230  
DL-Nal, 231  
1-Naphthyl-2-butanol, 232  
2-Naphthyl-2-butanol, 232  
α-Naphthyl Methyl Carbinol, 231  
1-Naphthylureaphenethylamine, 231  
Napropamide, 232  
Naproxen, 234  
Naproxen Diisopropyl Amide, 236  
Naproxen Methyl Amide, 237  
Naproxen Methyl Ester, 237  
Naringenin, 237  
Nebivolol, 238  
Nefopam, 238  
Nicardipine, 240  
Nimodipine, 241  
Nirvanol, 243  
4-Nitro-Phenylalanine, 242  
Nomifensine, 242  
CBZ-Nornicotine, 244  
Norleucine, 243  
Norvaline, 244  
Norverapamil, 245  
Novaluron, 245  
Nutlin-3, 246  
Ofloxacin, 246  
Omeprazole, 246  
Omite, 247  
Ondansetron, 248  
o,p'-DDD, 248  
o,p'-DDT, 250  
Ornidazole, 251  
Oxazepam, 251  
Oxfendazole, 251  
Oxprenolol, 252  
Oxybutynin, 252  
Pantoprazole, 253  
Pazufloxacin, 254  
DL-Penicillamine, 254  
Permethrin, 255  
CBZ-Phe, 255  
Phenylalanine, 256  
Phenylbutyric Acid, 257  
Phenyl Cyclohexyl Carbinol, 257  
Trans Phenyl Cyclohexanol, 257  
2-Phenylcyclopropane Carboxylate, 258  
Phenylephrine, 258  
Phenyl Ethyl Carbinol, 258  
Phenylethylene Glycol, 259  
Phenylglycine, 259  
Phenyl Isopropyl Carbinol, 259  
Phenyl Methyl Carbinol, 259  
1-Phenylpentanol, 259  
1-[(4-Phenyl) phenyl] Ethanol, 260  
Phenyl phenylethyl carbinol, 261  
1-Phenyl-2-propanol, 261  
2-Phenylpropionic Acid, 262  
Phenyl Propyl Carbinol, 262  
Phenylsuccinic Acid, 262  
Phenyl Tribromomethyl Carbinol, 262  
Secondary Phosphine Oxide, 263  
Tertiary Phosphine Oxide, 264

- Phosphine Selenium Oxide, 265  
Pindolol, 265  
Pirprofen, 267  
PPO Inhibitors, 267  
Practolol, 270  
Pramipexole, 270  
Prasugrel, 271  
Praziquantel, 272  
Prilocaine, 274  
Primaquine, 273  
Procyclidine, 276  
Proglumide, 285  
Promethazine, 278  
Pronethalol, 278  
Propafenone, 279  
Propanolol, 280  
Pyranoquinolones, 281  
DL-Pyridylalanine, 289  
Quinacrine, 289  
4(3H)-Quinazolone Derivatives, 290  
Quizalofop-ethyl, 291  
Ranolazine, 292  
Rasagaline Mesylate, 292  
Rebamipide, 292  
Resmethrin, 293  
Ropivacaine, 293  
Rotigotine, 294  
SC 41930, 294  
Serine, 295  
Sethoxydim, 295  
Silvex Methyl, 296  
Sotalol, 296  
Stilbene Oxide, 297  
TSO (trans-Stilbene Oxide), 297  
Styrene Oxide, 298  
Sulconazole, 298  
Sulfinpyrazone, 299  
Sulindac, 299  
Sulpiride, 299  
Suprofen, 300  
Tamulosin, 302  
Taxifolin, 3042  
Tebuconazole, 303  
Temazepam, 303  
Terbutaline, 304  
Terfenadine, 305  
Tetrabenazine, 306  
Tert-butyl-2-(benzamido) cyclopentyl  
  carbamate, 307  
Tert Butyl Phenyl Carbinol, 307  
Tetrahydrobenzopyrene-7-ol, 308  
1,2,3,4-Tetrahydro-1-naphthylamine, 308  
1,2,3,4-Tetrahydro-1-Naphtol, 309  
Tetrahydropalmatine, 309  
Tetrahydropyrimidine Carboxylic Acid, 311  
Tetramethrin, 311  
Tetramisole, 311  
Thalidomide, 312  
1,3-Thiazole, 314  
DL-Thienylalanine, 323  
2-Thiopheneethanol, 323  
3-Thiopheneethanol, 323  
Thioridazine, 324  
DL-Thr, 3264  
Tiagabine, 325  
Tiaprofenic Acid, 325  
Timolol Maleate, 326  
Tioconazole, 326  
Tofisopam and its Conformers, 328  
Tolperisone, 328  
1-Tosyl-2-Phenylaziridine, 329  
Triadimefon, 329  
Triadimenol, 331  
1,3,5-Triazines, 332  
Trichlorfon, 335  
Trichlormethiazide, 336  
2,2,2-Trifluoro-1-(9-anthryl)-ethanol, 337  
4-(Trifluoromethyl)mendelic Acid, 388  
1-(m-Trifluoromethylphenyl) Ethanol, 338  
Trimebutine, 338  
1,1,2-Triphenyl-1,2-Ethanediol, 339  
1,3,5-Triphenylpent-4-yn-1-one, 339  
 $\alpha$ -Trityl-2-naphthalene Propionic Acid, 340  
Troger's Base, 340  
Troglitazone, 342  
Trolox, 332  
Trolox-methylether, 344  
Tropicamide, 344  
Tryptophan, 347  
Tulobuterol, 348  
Tulobuterol HCl, 348  
Tyrosine, 348  
U-100057, 349  
trans-U-50488H, 349  
U-94863, 350  
CBZ-Val, 350  
Valine, 350  
Vanilmandelic Acid, 353  
Vapol, 353  
Verapamil, 354  
Vesamicol, 354  
Viloxazine, 355  
Vinclozolin, 356  
Warfarin, 356  
Zopiclone, 359



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