



# CHIRAL HANDBOOK

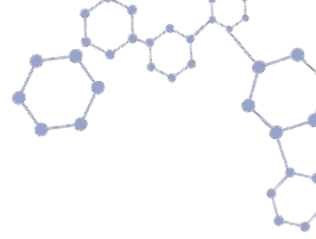
## HPLC & SFC Separations



BGB GC | LC  
MS | CE

 **REGIS**<sup>®</sup>  
TECHNOLOGIES, INC.





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## A resource built from nearly 50 years of experience

Regis is pleased to present its inaugural edition of the Chiral Handbook. This definitive resource contains over 800 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 1970, 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.

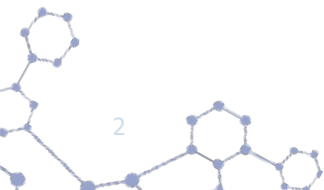
Regis offers three different types of Chiral Stationary Phases (CSPs):

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

All 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

Regis recommends building a small library of chiral columns that have broad applicability and durability for high volume screening. We offer a three-column screening kit containing our most popular chiral columns that cover the broadest spectrum of selectivity. These columns are available in a wide range of particle sizes and are packed at high pressures to allow for use with both HPLC and SFC.

Create your own chiral library with one of each of the following chiral stationary phases (CSPs):

- Whelk-O® 1: an extremely durable, covalently bonded CSP with unique selectivity and ability to invert elution order
- RegisPack®: a polysaccharide (amylose) coated CSP with broad selectivity
- RegisCell®: a polysaccharide (cellulose) coated CSP with complementary selectivity

## Method Development - HPLC

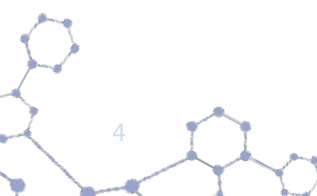
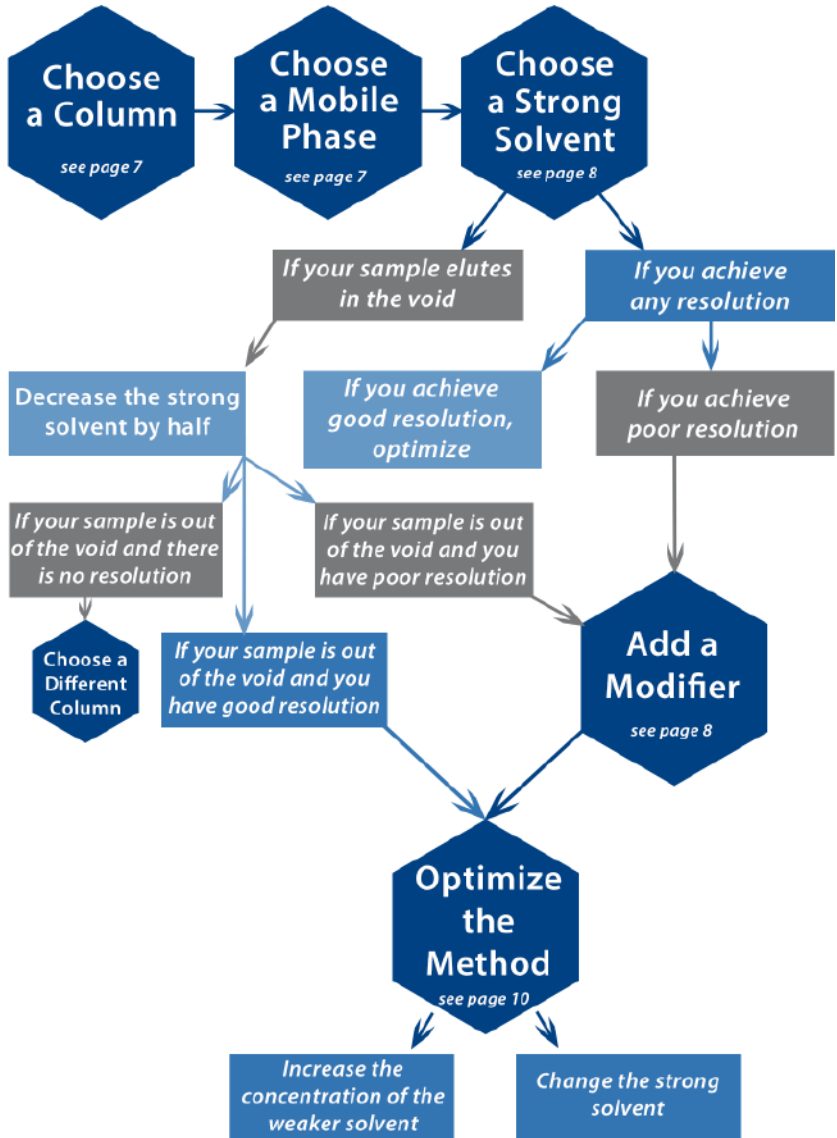
The ability to achieve separation of two enantiomers is measured by enantioselectivity, the value of the separation factor  $\alpha$  for the two enantiomers. A pair of enantiomers is considered resolvable if  $\alpha > 1.1$ .

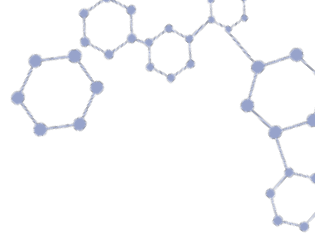
### General Tips

- HPLC method development protocols are similar for all phases (Whelk-O 1, RegisCell, RegisPack, etc).
- There are some restrictions on solvents that may be used with RegisCell, RegisPack & RegisPack CLA-1 columns.
- There are no restrictions on solvents that may be used with the Whelk-O 1 column.

The RegisPack, RegisCell, and RegisPack CLA-1 columns can tolerate up to 60% water, but doing so will 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)
- RegisPack (Amylose)
- RegisCell (Cellulose)
- RegisPack CLA-1 (Chlorinated Amylose)
- 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-O1</b>	None	2.5 - 7.5	0 - 40°C	100% Organic solvent
<b>RegisPack/ RegisCell/ RegisPack CLA1</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\*
- Heptane/Ethanol
- 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 RegisCell, RegisPack or RegisPack CLA-1.

### STEP 3: Choosing the Strong Solvent

Start with a high percentage (~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, 5µm

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

**Flow Rate:** 1.5 mL/min

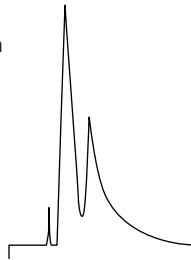
**Detection:** UV 254 nm

**Run Time:** 6.5 min

**k':** 1.37

**α:** 1.87

**Rs:** 1.59



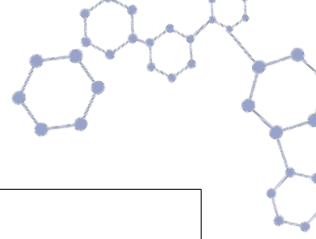
- If you achieve any resolution, such as the above sample, move on to Step 4.
- If your sample comes off in the void, decrease the strong solvent concentration by half.
- If your sample is now out of the void and you have resolution, move on to Step 4.
- If your sample is out of the void, and there is 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, diethylamine or ammonium acetate
- For acidic groups—add acetic acid, trifluoroacetic acid 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:** Hexane/Ethanol + **0.1% TEA (50/50)**

**Flow Rate:** 1.5 mL/min

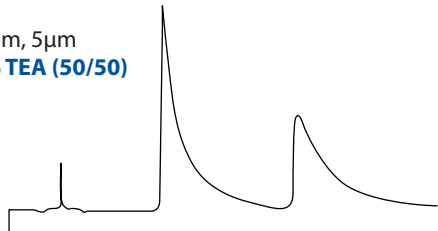
**Detection:** UV 254 nm

**Run Time:** 19.0 min

**k':** 4.63

**$\alpha$ :** 2.07

**R<sub>S</sub>:** 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:** Hexane/Ethanol + **0.1% Acetic Acid (50/50)**

**Flow Rate:** 1.5 mL/min

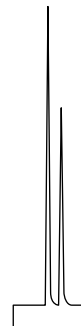
**Detection:** UV 254 nm

**Run Time:** 4.7 min

**k':** 0.87

**$\alpha$ :** 1.85

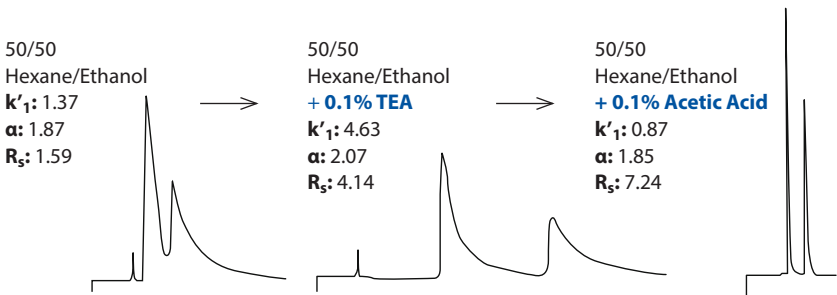
**R<sub>S</sub>:** 7.24



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

### Recapping the First Four Steps:

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



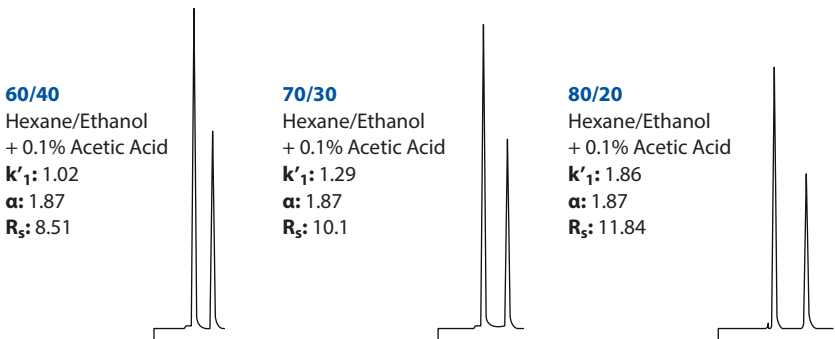
### STEP 5: Optimizing your Method

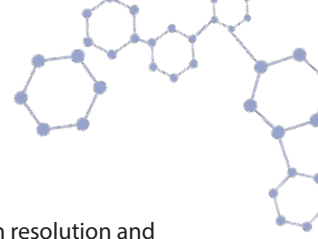
Optimizing a chiral method is very similar to optimizing an achiral method. Changing mobile phase component concentrations and even the components themselves can dramatically change resolution.

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. The possibilities are endless. 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.

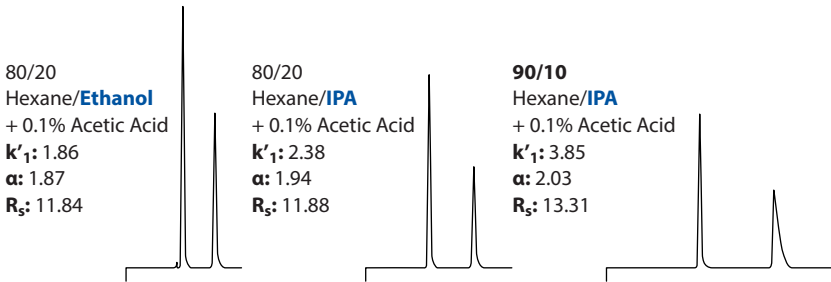




**5b: Changing the strong solvent.**

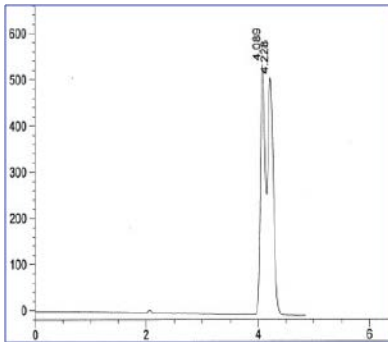
By substituting IPA for ethanol, we achieved an increase in both resolution and alpha. We gained even greater separation by reducing the concentration of the strong solvent, IPA.

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

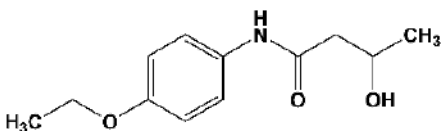
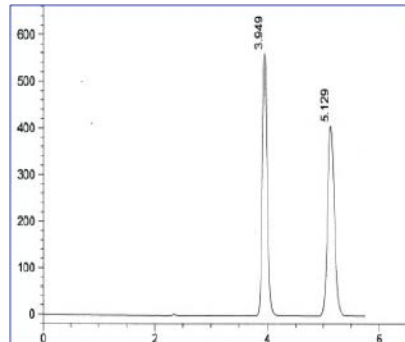


**Example 2:**

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



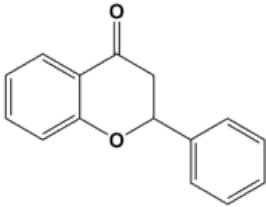
**Mobile Phase:**  
Hexane/**IPA** (75/25)



**Sample:** Bucetin  
**Column:** RegisPack, 5 $\mu$ m,  
25 cm x 4.6 mm  
**Flow Rate:** 1.5 mL/min  
**UV:** 254 nm

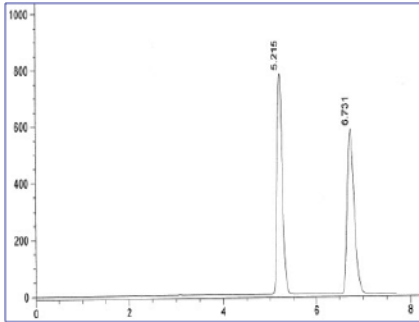
### 5c: Switching to reversed-phase separation mode

Switching to reversed-phase for separation of flavanone's isomers increased both resolution and retention time.



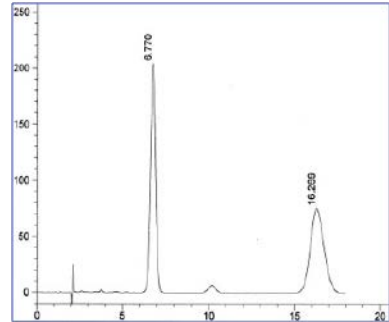
Sample: Flavanone

#### Normal Phase



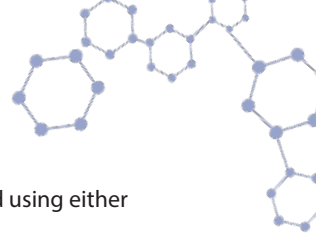
**Column:** RegisPack, 5 $\mu$ m, 25 cm x 4.6 mm  
**Mobile Phase:** Hexane/Ethanol (90/10)  
**Flow Rate:** 1.5 mL/min  
**UV:** 254 nm  
**k'<sub>1</sub>:** 1.74  
**Selectivity:** 1.46

#### Reversed-Phase

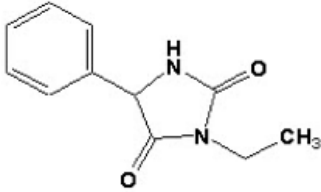


**Column:** RegisPack, 5 $\mu$ m, 25 cm x 4.6 mm  
**Mobile Phase:** (95/5) CH<sub>3</sub>OH/H<sub>2</sub>O  
**Flow Rate:** 1.5 mL/min  
**UV:** 254 nm  
**k'<sub>1</sub>:** 2.56  
**Selectivity:** 2.95

*Note: Do not switch RegisPack, RegisCell, or RegisPack CLA-1 between modes. Dedicate to normal- or reversed-phase.*

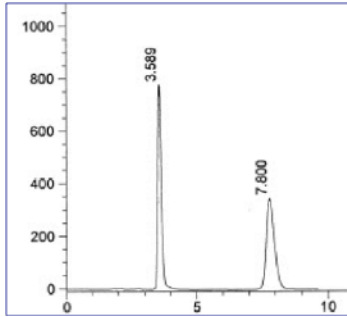


Adequate enantiomeric separation of Ethotoin can be obtained using either normal phase or reversed-phase methods.



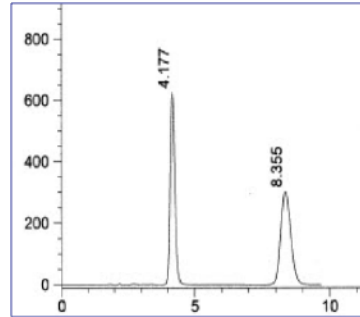
Sample: Ethotoin

### Normal Phase



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

### Reversed-Phase



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

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

## Method Development – SFC

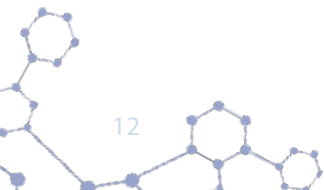
The ability to achieve separation of two enantiomers is measured by enantioselectivity, the value of the separation factor  $\alpha$  for the two enantiomers. A pair of enantiomers is considered resolvable if  $\alpha > 1.1$ . Ideally,  $R_s$  values should be  $> 1.5$ .

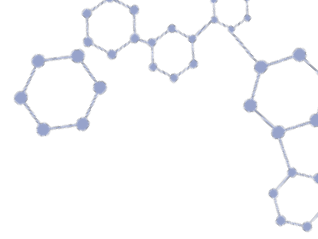
### General Tips

- SFC method development protocols are similar for all phases (Whelk-O 1, RegisCell, RegisPack, etc)
- There are some restrictions on co-solvents that may be used with RegisCell, RegisPack & RegisPack CLA-1 columns
- There are no restrictions on co-solvents that may be used with Whelk-O 1 columns

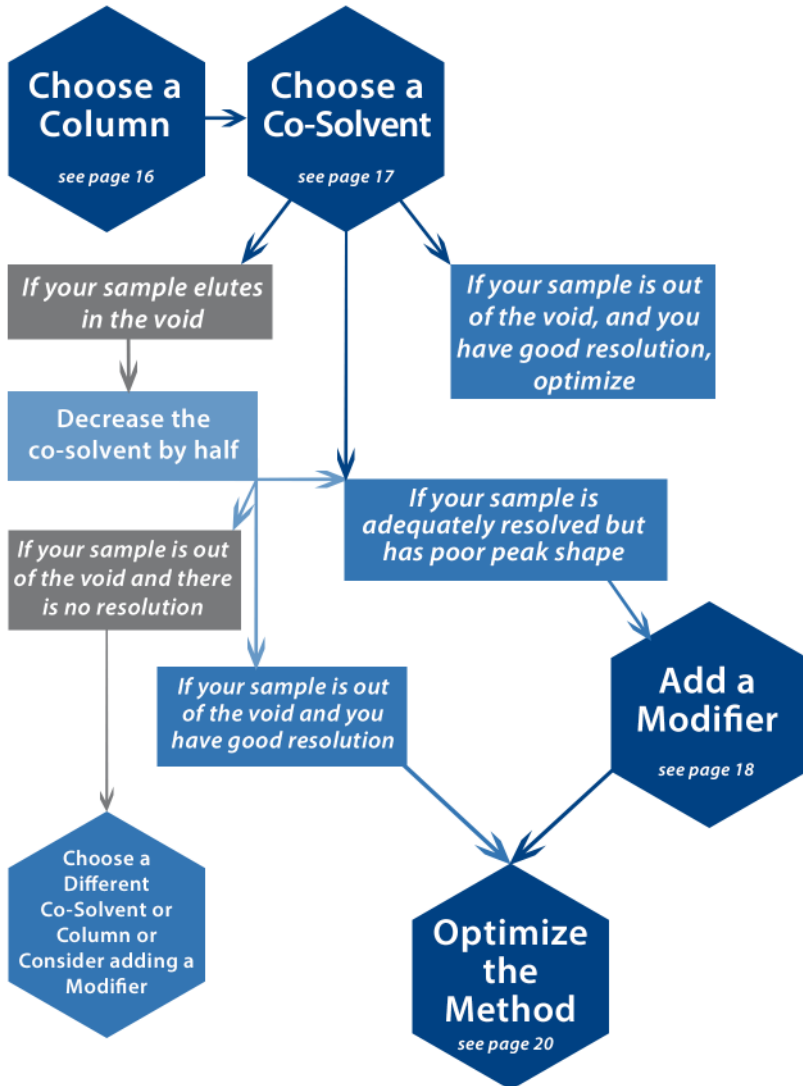
### SFC Start-Up Tips:

- 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 SFC 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)
- RegisPack (Amylose)
- RegisCell (Cellulose)
- RegisPack CLA-1 (Chlorinated Amylose)
- 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)

### STEP 2: Choosing the Mobile Phase

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

Often an organic co-solvent is needed to achieve 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.

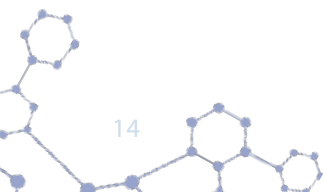
#### Typical SFC Co-Solvent Systems:

##### Polysaccharide CSP's

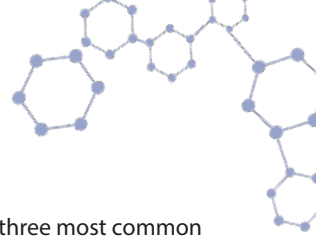
- Isopropyl Alcohol (IPA)
- Ethanol (EtOH)
- Methanol (MeOH)
- Acetonitrile (ACN)
- Combinations of the above solvents

##### Pirkle-Type CSP's

- Ethanol (EtOH)
- Isopropyl Alcohol (IPA)
- 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







### STEP 3: Co-Solvent Selection

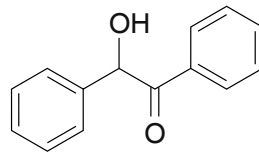
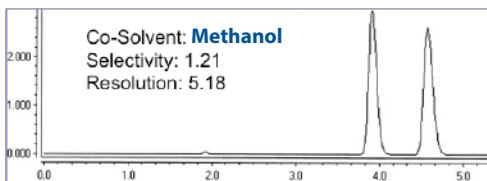
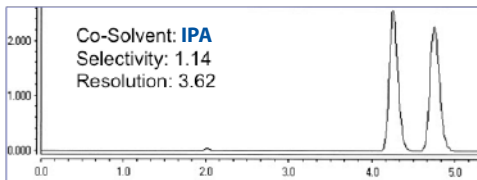
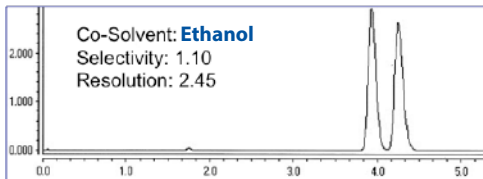
The majority of compounds can be separated using one of the three most common alcohols as a co-solvent: isopropyl alcohol, ethanol, or methanol. A modifier may also be necessary to improve peak shape and resolution.

A ratio of 80:20, CO<sub>2</sub>:Co-Solvent (isopropyl alcohol, 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, considering adding a modifier, or choose a different column.

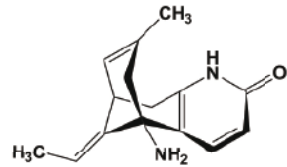
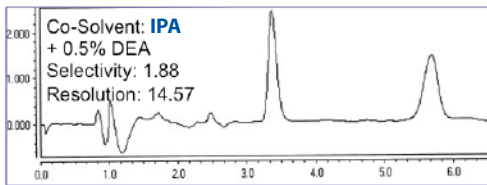
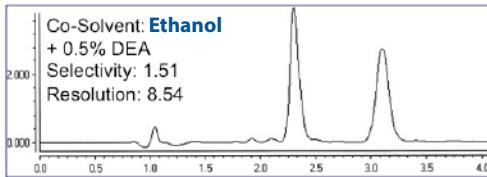
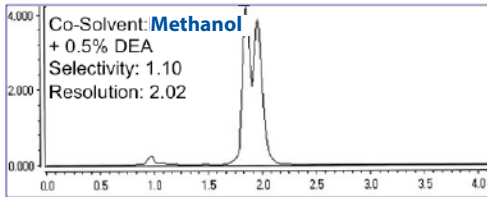
### Examples of the effect of various co-solvents on the separation:

Methanol is the co-solvent that enables the best enantiomeric separation of Benzoin.



**Sample:** Benzoin  
**Column:** RegisPack, 5 $\mu$ m, 25 cm x 4.6 mm  
**Mobile Phase:** (85/15) CO<sub>2</sub>/Co-Solvent  
**Flow Rate:** 4.0 mL/min  
**Temp:** 40° C  
**Pressure:** 125 bar  
**UV:** 254 nm  
**Instrument:** THAR SFC Method Station

## Isopropanol is the co-solvent that enables the best enantiomeric separation of Huperzine



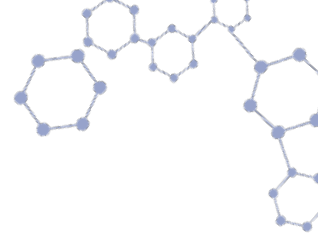
**Sample:** Huperzine  
**Column:** RegisPack, 5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (70/30) CO<sub>2</sub>/Co-Solvent + 0.5% DEA  
**Flow Rate:** 4.0 mL/min  
**Temp:** 40° C  
**Pressure:** 125 bar  
**UV:** 220 nm  
**Instrument:** THAR SFC Method Station

### 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%.

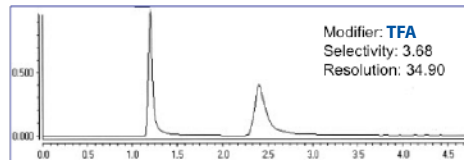
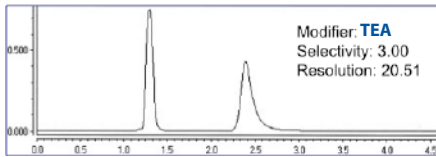
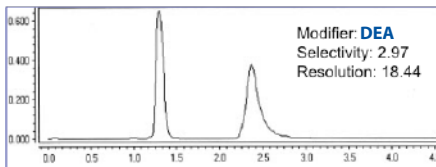
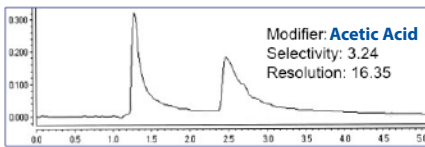
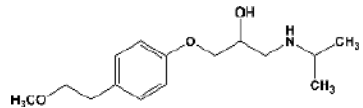
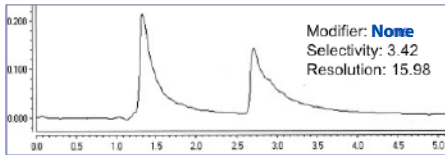
Typical SFC Co-Solvent Modifiers for Polysaccharide and Pirkle-Type CSP's:

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



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

**Triethylamine produces the best resolution and peak shape for Metoprolol's isomers.**



**Sample:** Metoprolol  
**Column:** RegisCell, 5 µm,  
 25 cm x 4.6 mm  
**Mobile Phase:** (80/20)  
 CO<sub>2</sub>/Ethanol + 0.5% Modifier  
**Flow Rate:** 4.0 mL/min  
**Temp:** 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.

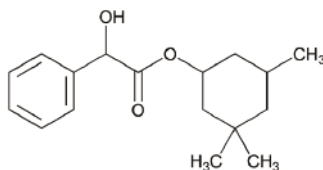
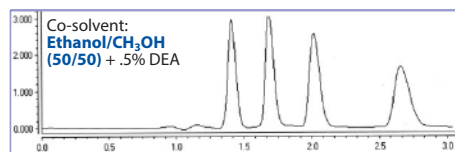
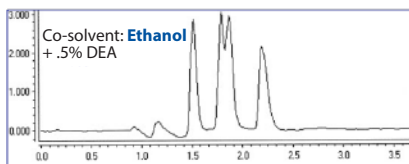
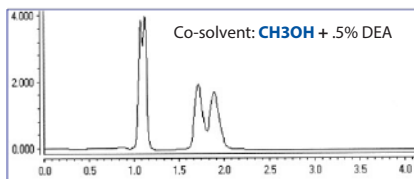
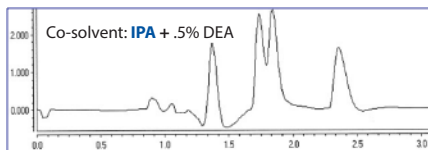
#### Options for optimizing a method:

- 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

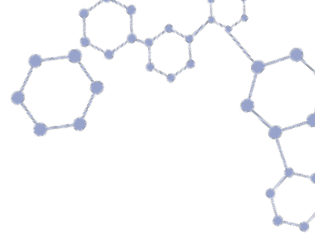
**Temp:** 40° C

**Pressure:** 125 bar

**UV:** 220 nm

**Instrument:**

THAR SFC Method Station



## PIRKLE-TYPE CHIRAL STATIONARY PHASES

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

- Long lasting, robust columns
- Bonded selector will not leach off the silica gel
- Tolerates sample overload
- Compatible with strong solvents for cleaning
- Columns are fully reversible
- Compatible with SFC and SMB applications
- High Capacity

### ***Universal Solvent Capability***

The entire family of Regis' Pirkle-Type Chiral Stationary Phases (CSPs) can be used 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.

### ***Column Durability***

Another advantage of covalent bonding is column durability.

### ***Ability to Invert Elution Order***

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 advantage is essential when determining enantiomeric purity when the trace enantiomer should elute before the major. Elution order is also important in preparative chromatography because when the desired enantiomer elutes first, purity and production efficiency increases.

### ***Chromatographic Efficiency***

Unlike most chiral columns on the market, Pirkle-Type chiral columns show excellent chromatographic efficiency. The high density of binding sites allows larger amounts of sample to be injected without major changes in column performance.

### ***Ease of Scale Up***

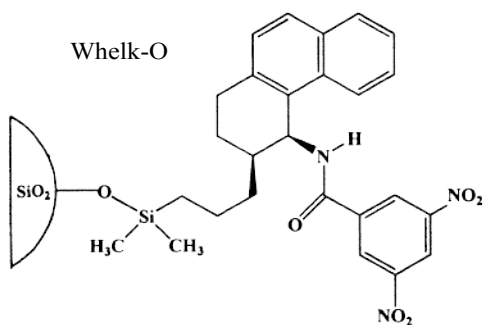
Pirkle-Type CSPs were designed to allow scale up from analytical to preparative in a linear fashion. Regis uses the highest grade spherical silica gels available, and synthesis of the chiral selectors, bonding, and column packing is all performed by Regis in one facility. This gives Regis total control over product quality.

## **Pirkle Chiral Stationary Phases**

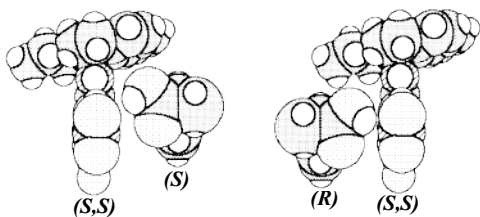
Pirkle Chiral Stationary Phases generally fall into three classes:  $\pi$ -electron acceptor/ $\pi$ -electron donors, the  $\pi$ -electron acceptors and the  $\pi$ -electron donors. With Pirkle phases, chiral recognition occurs at binding sites. Major binding sites are classified as  $\pi$ -basic or  $\pi$ -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**

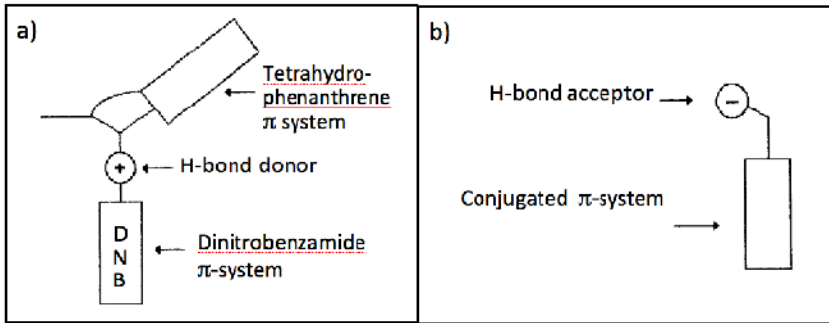
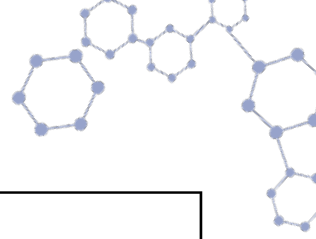


- WHELK-O 1
- WHELK-O 2
- ULMO



**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 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 anti-inflammatory 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 on 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 polysaccharide-derived 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 $\mu$ m) to serve small scale analytical separations up to large scale preparative work.

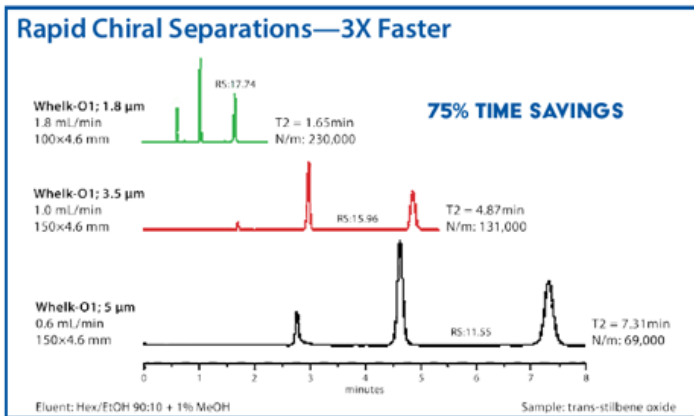


a) Schematic diagram showing key functional groups of the Whelk-O 1 involved in chiral recognition.

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

**Now available in 1.8µm UHPLC columns!**

- Increase throughput and resolution—Great for rapid chiral screening
- 1.8µm fully porous particles for high efficiency separations in both UHPLC and UHPSFC
- Fully scalable phase from 1.8µm to 20µm, analytical to preparative size columns
- Invert peak elution order with availability of both enantiomeric phases for difficult separations
- Stable, long term performance for long column lifetimes at high flow rates and pressures



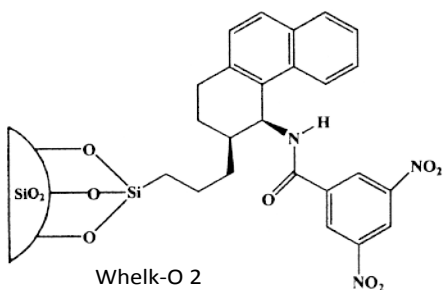
Sub-2µm particles provide very high efficiencies and resolution even at high flow rates, reducing analysis time and mobile phase consumption while increasing resolution. The Whelk-O 1 selector is bonded on 1.8µm totally porous silica for high

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 $\mu$ 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.

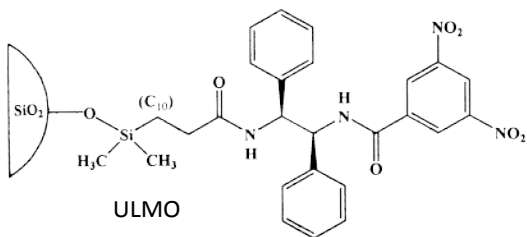
Whelk-O 2 was designed to enhance the stability of the stationary phase due to hydrolysis while using strong organic modifiers such as trifluoroacetic acid. The Whelk-O 2 is ideal for preparative separations since the material is bonded on 10 $\mu$ m, 100 Å spherical Kromasil silica. This allows the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



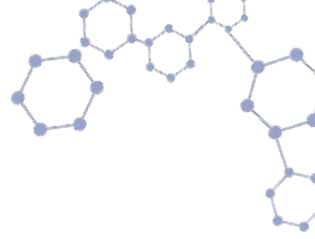
### ULMO

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.







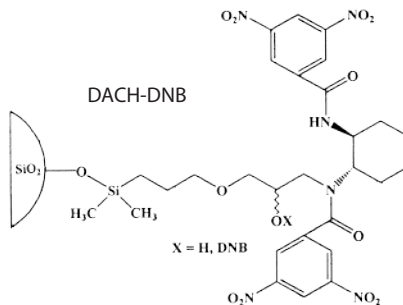
## $\pi$ -Electron Acceptor Phases

- 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.

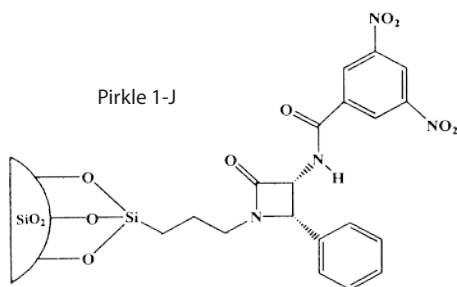
### DACH-DNB

The DACH-DNB CSP was designed by Italian chemists Gasparri, 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.



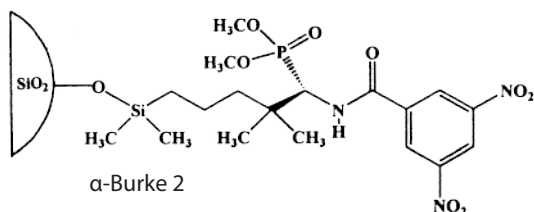
### PIRKLE 1-J

The Pirkle 1-J CSP is based on 3-(3,5-Dinitrobenzamido)-4-phenyl- $\beta$ -lactam. This unusual  $\beta$ -lactam structure significantly 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

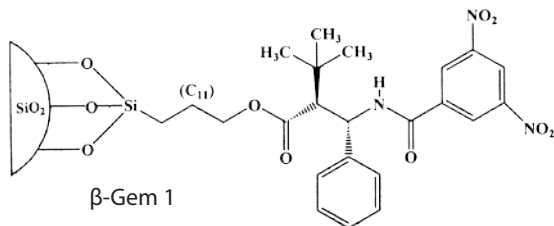
The  $\alpha$ -Burke 2 phase, first prepared by J. A. Burke III, a graduate student of Dr. Pirkle, is derived from dimethyl N-3,5-dinitro-benzoyl-  $\alpha$  -amino-2,2-dimethyl-4-pentenyl phosphonate. The  $\alpha$  -Burke 2 has been specifically designed to directly separate the enantiomers of  $\beta$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

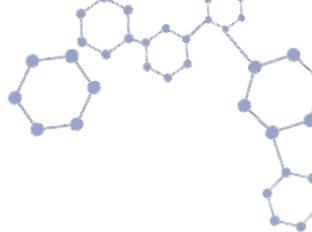


### $\beta$ -GEM 1

$\beta$ -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.

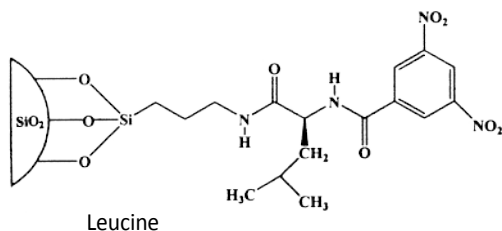
For many analytes, this chiral phase considerably outperforms its widely used analog, Phenylglycine. It can separate anilide derivatives of a wide variety of chiral carboxylic acids, including nonsteroidal anti-inflammatory agents.





## LEUCINE

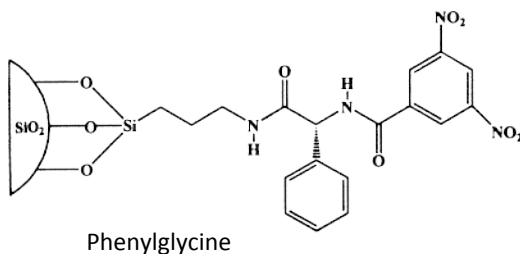
The leucine CSP is based on the 3,5-dinitrobenzoyl derivative of leucine. This  $\pi$ -acceptor phase demonstrates enhanced enantioselectivity for several classes of compounds, including benzodiazapines.



## 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 hydantoin.



## Polysaccharide Coated Chiral Stationary Phases

### RegisPack and RegisCell

- 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, and SFC conditions
- RegisPack and RegisCell are coated phases with similar selectivities to the CHIRALPAK® AD and CHIRALCEL® OD respectively\*

\*All trademarks are property of the respective owners.

## Crown-Ether Chiral Stationary Phases

RegisPack polysaccharide coated chiral columns are made using a unique production process of coating the chiral selector tris-(3,5-dimethylphenyl) carbamoyl amylose on high purity silica gel.

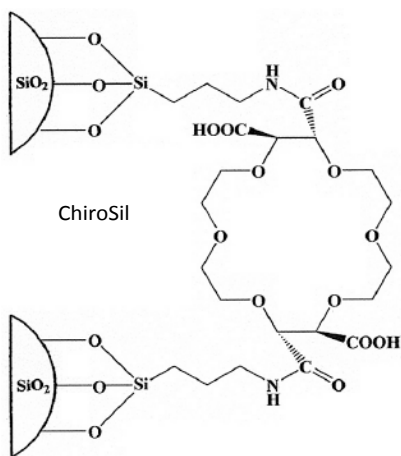
RegisCell polysaccharide coated chiral columns are made using a unique production process of coating the chiral selector-tris-(3,5-dimethylphenyl) carbamoyl cellulose on high purity silica gel.

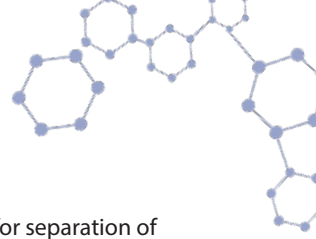
RegisPack and RegisCell columns are available in 3-, 5-, 10-, and 20 $\mu$ m particle sizes, enabling easy scale up from analytical to preparative HPLC or SFC. Bulk material is available upon request.

## Crown-Ether Chiral Stationary Phases

### ChiroSil® RCA(+) and SCA(-) Chiral Stationary Phases

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. ChiroSil® 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.

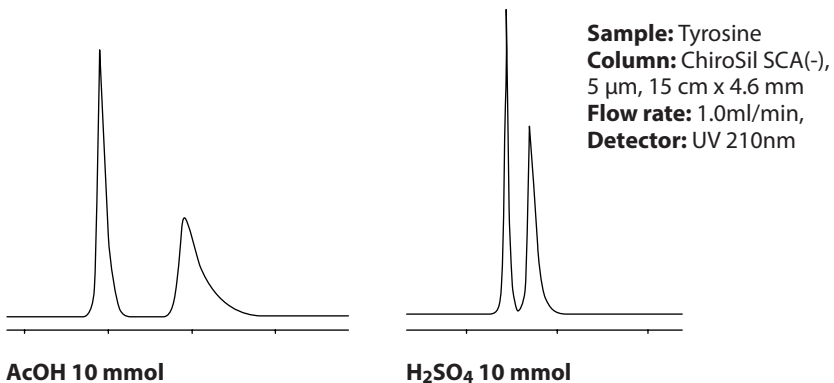
The capacity factor ( $k'$ ) generally decreases as the content of organic modifier increases and the separation factor ( $\alpha$ ) and the resolution factor ( $R_s$ ) generally increase as the concentration of organic modifier in the aqueous mobile phase increases.

### 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.

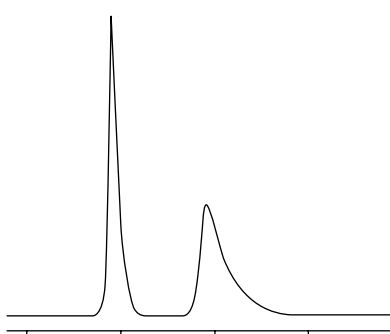
**Sample:** Tyrosine

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

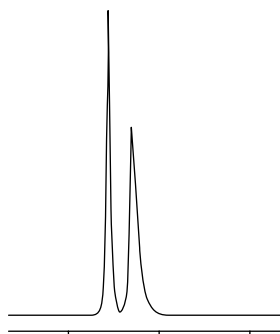
**Mobile phase:** 80% MeOH in H<sub>2</sub>O + H<sub>2</sub>SO<sub>4</sub> (x mM)

**Flow rate:** 0.8 mL/min

**Detector:** UV 210nm



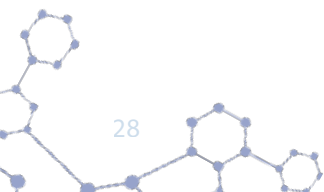
H<sub>2</sub>SO<sub>4</sub> 1 mmol

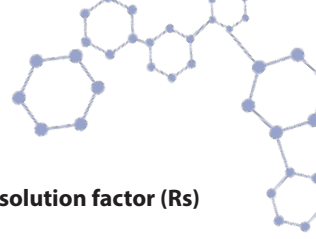


H<sub>2</sub>SO<sub>4</sub> 10 mmol

## 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.**

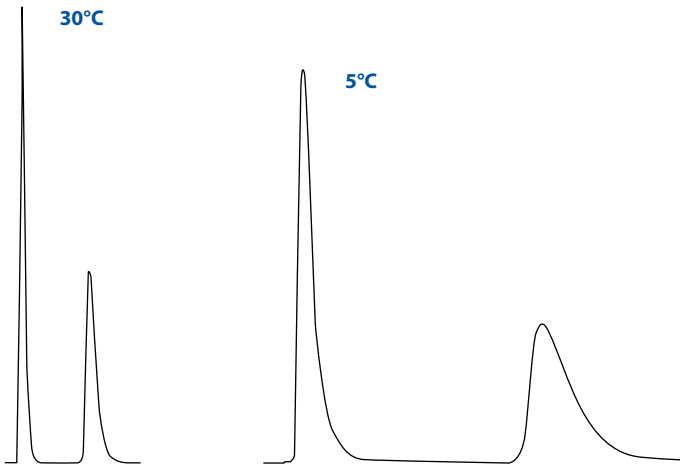
**Sample:** Phenylglycine

**Column:** ChiroSil SCA(-), 5 $\mu$ 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)

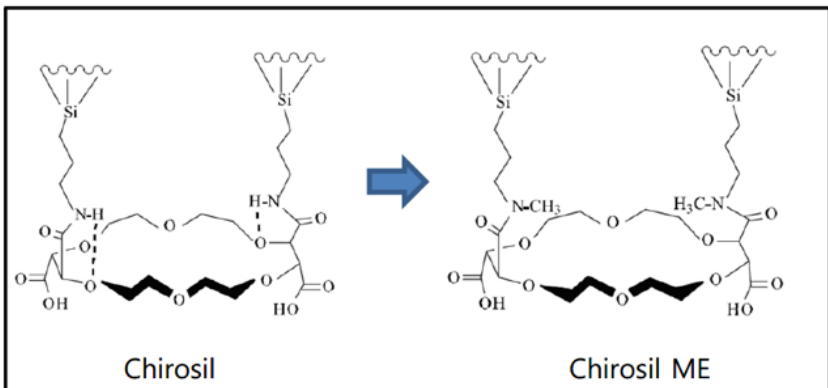
**Flow rate:** 0.8 mL/min

**Detector:** UV 210nm



### 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 45 years, our staff has fielded hundreds of 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 (chromsales@registech.com) or contact your local distributor.

### ***What is the pressure rating of your columns?***

All columns can tolerate pressures up to 6000 psi. 1.8  $\mu$ 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	Length	mm ID	Typical Flow Rate, ml/min	Pressure, PSI
5, 10	250, 150, 100	4.6	1	6000
5, 10	250, 150, 100	10	4.7	6000
5, 10	250, 150, 100	21.2	21	6000
5, 10	250, 150, 100	30	42.5	6000
5, 10	250, 150, 100	50	118	6000

### ***Can Regis columns be reversed?***

Yes, all columns packed by Regis are fully reversible. In fact, Regis was the first column manufacturer to sell a fully reversible HPLC column. It is recommended to reverse your column frequently. This helps keep the frit surface from becoming clogged with undissolved sample or particulates in the mobile phase, thus extending the column life.

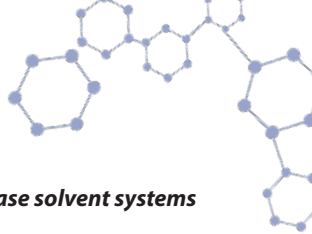
### ***What is the pH range of your columns?***

All of Regis' Chiral phases are bonded on silica. The 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.

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

Yes, all Regis CSPs can be used with both normal- and reversed-phase solvents. 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.





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

Yes, for Whelk-O 1 and ChiroSil; No for RegisPack and RegisCell. 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 your columns to equilibrate?***

The column should equilibrate 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.

***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% of 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 use your columns for SMB chromatography and SFC?***

Yes, many analytical and preparative chromatographers use chiral columns with SFC or SMB. Special hardware is necessary for certain column dimensions.

***What is the difference between Whelk-O 1 and Whelk-O 2?***

Although the Whelk-O 1 and Whelk-O 2 both share the same chiral selector, they have distinct differences. The Whelk-O 1 is mono-functionally bonded to silica and the Whelk-O 2 is tri-functionally bonded. The Whelk-O 2 was designed to tolerate strong acidic modifiers such as TFA. The Whelk-O 2 was designed for preparative use and is not available on 5 $\mu$ m silica. Due to the fact the Whelk-O 2 is a tri-functional bond, coverage on the silica will be less than with Whelk-O 1. This decrease in the actual number of bonded sites will decrease selectivity and not allow for exact reproducibility of a method developed on a Whelk-O 1 column.

***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 Pirkle-Type chiral column in polar organic mode?**

Yes, but the success rate is very poor. We do not recommend dedicating a slot in your method development station for a Pirkle-Type chiral column if you are exclusively running in polar organic mode. Instead, we suggest adding another Pirkle-Type column to your normal phase system to achieve a higher success rate.

### **What sample loading can I expect from Pirkle-Type 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.

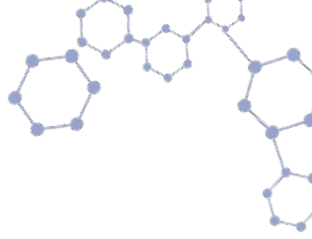
Note: Factors, such as solubility, will greatly affect loading capacity.

### **Which chiral column is right for my separation?**

Let us find the best column for your compound. Start with a free chiral screening conducted by Regis' experts in chiral separations.

The process is simple and includes completing a confidentiality agreement (if desired), our Chiral Screen Submission form, an Environmental Health & Safety (EHS) form, and sending your compound to Regis. Results are typically returned within three business days.

The image shows a screenshot of a web-based form titled "REGIS CHIRAL SCREEN SUBMISSION FORM". The form is divided into several sections with labels in all caps: "CONTACT INFORMATION", "SCREENING PURPOSE", "SAMPLE SUBMISSIONS", and "GENERAL INFORMATION". Each section contains various input fields, some with dropdown menus, for providing customer and sample details. The "SCREENING PURPOSE" section includes checkboxes for "ANALYTICAL", "PREP", and "SEMI-REP". The "SAMPLE SUBMISSIONS" section has a table with columns for "Sample Name", "Quantity", "Concentration", and "CAS No.". The "GENERAL INFORMATION" section includes fields for "Customer Name", "Address", "City", "State", "Zip", "Phone", and "Fax". There is also a "SAVE & PRINT" button at the bottom right of the form.



# **HPLC & SFC**

## **Chiral Applications**

In the following pages, you will find over 800 chiral applications using a variety of chiral column types. Pulling from decades of experience in Regis' chiral screening lab, these applications provide a column and method to achieve separation for a diverse range of chiral compounds.

Applications are listed alphabetically by compound name. If your compound is not listed, we encourage you to contact us for a confidential and complimentary chiral screening. Learn more at [www.registech.com/free-chiral-screening](http://www.registech.com/free-chiral-screening).

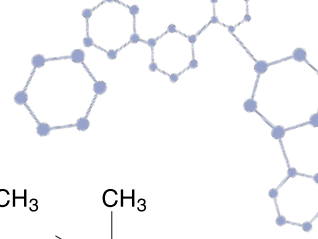
The applications found in this handbook have been run using one of the following columns:

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
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	
Alpha-Burke 2 <sup>†</sup>	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 <sup>‡</sup>	5 $\mu$ m, 25 cm x 4.6 mm	1-731054-300	1-731041-300
Phenylglycine <sup>‡</sup>	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	1-786447-300
ChiroSil <sup>  </sup>	5 $\mu$ m, 15 cm x 4.6 mm	1-799001-300	1-799101-300
ChiroSil ME <sup>  </sup>	5 $\mu$ m, 15 cm x 4.6 mm	1-788001-300	1-788009-300

\* (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

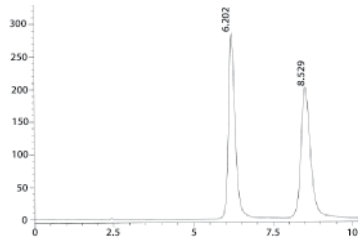
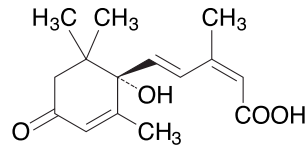
Please note, columns with (R,R) and (S,S) configurations provide the same separation but in inverse elution order. All columns are available in analytical to preparative sizes with custom sizes offered for most.

For more information, visit [www.chiral.com](http://www.chiral.com).



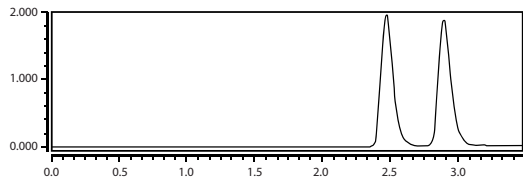
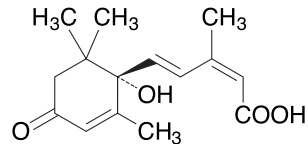
## Abscisic Acid

**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



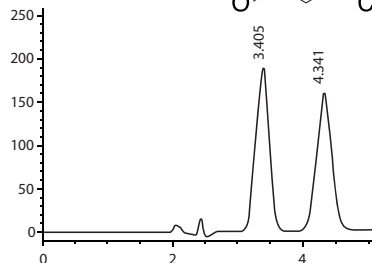
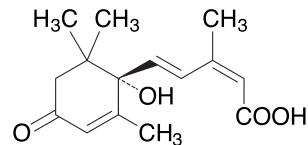
## Abscisic Acid

**Column:** (S,S) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (80/20)  
 $\text{CO}_2$ /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



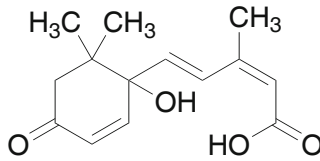
## Abscisic Acid

**Column:** RegisCell,  
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 254 nm  
 **$k'$ :** 0.79  
 **$\alpha$ :** 1.62  
**CAS #:** 21293-29-8  
**Catalog #:** 1-784104-300



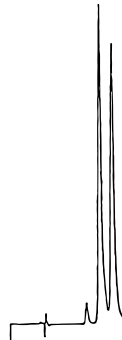
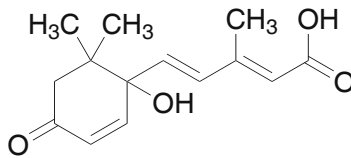
## 2-cis-4-trans-Abscisic Acid (ABA)

**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



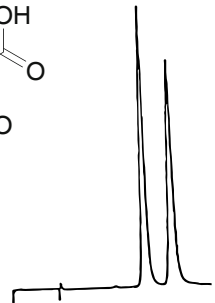
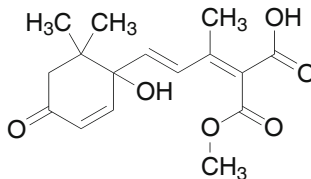
## 2-trans-4-trans-Abscisic Acid

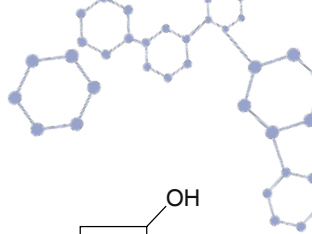
**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (80/20/0.5)  
Hexane/IPA/HOAc  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 5 min  
**k':** 2.08  
 **$\alpha$ :** 1.21  
**Reference:** 9  
**Catalog #:** 1-780101-300,  
1-780201-300



## ABA Methyl Ester

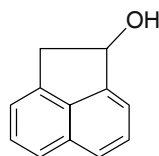
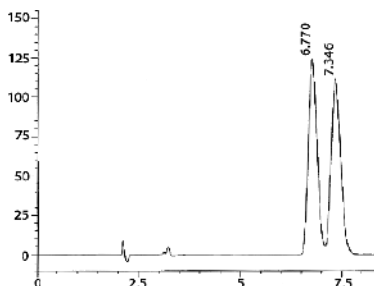
**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (80/20/0.5)  
Hexane/IPA/HOAc  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 5 min  
**k':** 2.41  
 **$\alpha$ :** 1.31  
**Reference:** 9  
**Catalog #:** 1-780101-300,  
1-780201-300





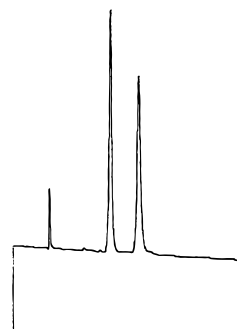
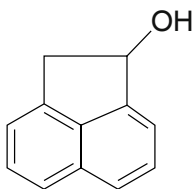
## Acenaphthenol

**Column:** 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 254 nm  
**Run Time:** 10 min  
 **$k'$ :** 2.56  
 **$\alpha$ :** 1.12  
**CAS #:** 94470-67-4  
**Reference:** 46  
**Catalog #:** 1-784104-300



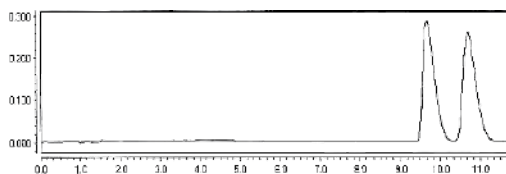
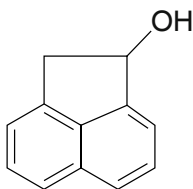
## Acenaphthenol

**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  
**Reference:** 46  
**Catalog #:** 1-787200-300



## 1-Acenaphthenol

**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (95/5)  
 $\text{CO}_2$ /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

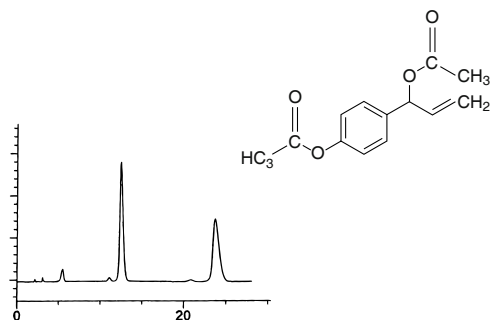
**Detection:** UV 254 nm

**k':** 5.94

**$\alpha$ :** 2.05

**Reference:** 46

**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

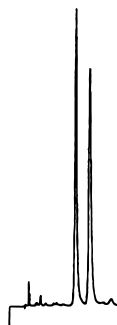
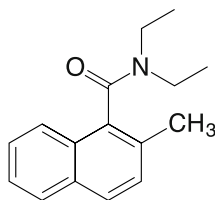
**Run Time:** 17.0 min

**k':** 4.11

**$\alpha$ :** 1.27

**Reference:** 46

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



## N-CBZ-Alanine

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

**Mobile Phase:** (75/25)  
Hexane/IPA + 0.1% TFA

**Flow Rate:** 1.5 mL/min

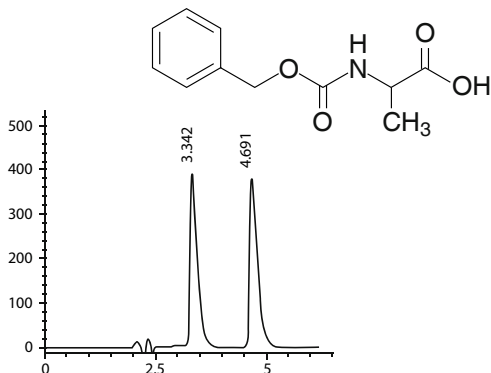
**Detection:** UV 220 nm

**k':** 0.76

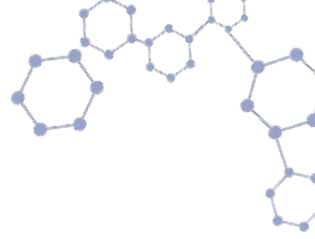
**$\alpha$ :** 1.93

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

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







## 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

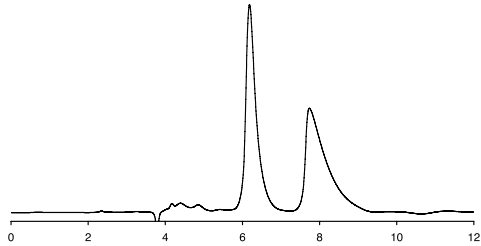
**Detection:** UV 210 nm

**k'**: 0.63

**$\alpha$** : 1.65

**Rs:** 3.96

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



## Alfuzosin

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

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

**Mobile Phase:** (68/28/4)

Hexane/CH<sub>2</sub>Cl<sub>2</sub>/Ethanol

+ 4 mM Ammonium Acetate

**Flow Rate:** 2.0 mL/min

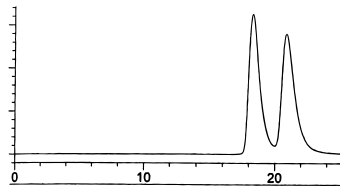
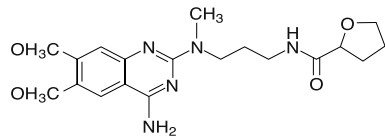
**Detection:** UV 254 nm

**k'**: 7.37

**$\alpha$** : 1.15

**Reference:** 46

**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

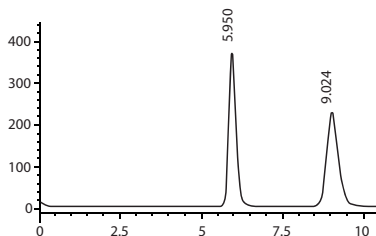
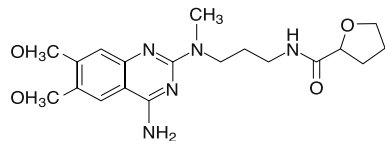
**Detection:** UV 254 nm

**k'**: 2.13

**$\alpha$** : 1.76

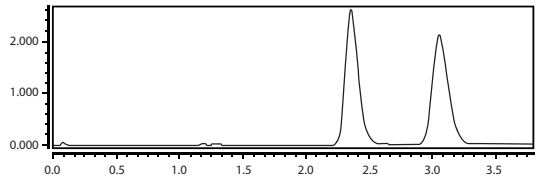
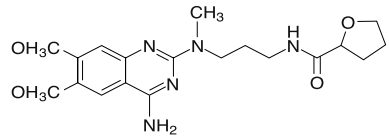
**CAS #:** 81403-80-7

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



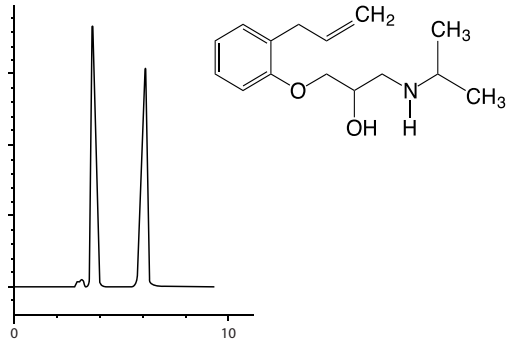
## Alfuzosin

**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°C  
**Pressure:** 125 bar  
**Detection:** UV 254 nm  
**k':** 2.15  
 **$\alpha$ :** 1.43  
**CAS #:** 81403-80-7  
**Catalog #:** 1-783104-300



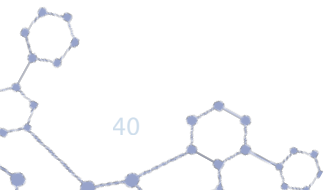
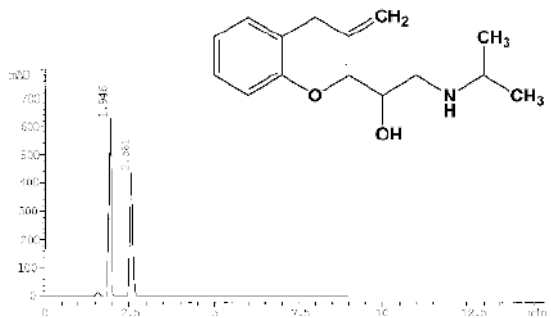
## Alprenolol

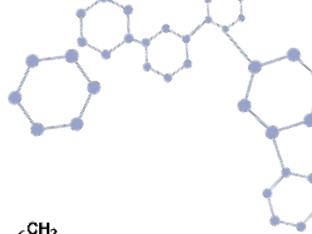
**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (85/15)  
Hexane/IPA + 0.1% DEA  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**k':** 0.23  
 **$\alpha$ :** 4.55  
**Catalog #:** 1-784104-300



## Alprenolol

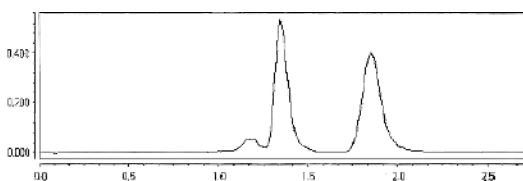
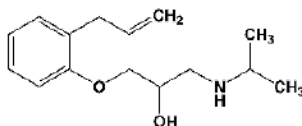
**Column:** RegisCell,  
3  $\mu\text{m}$ , 25 m x 4.6 mm  
**Mobile Phase:** (85/15)  
Hexane/IPA + 0.1% DEA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**k':** 0.68  
 **$\alpha$ :** 1.78  
**Catalog #:** 1-784504-300





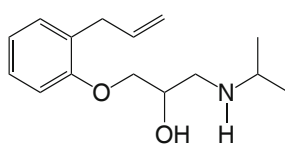
## Alprenolol

**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°C  
**Pressure:** 125 bar  
**Detection:** UV 254 nm  
**k'**: 0.80  
 **$\alpha$ :** 1.85  
**Catalog #:** 1-784104-300



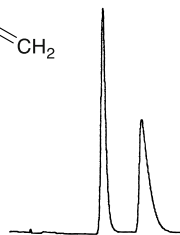
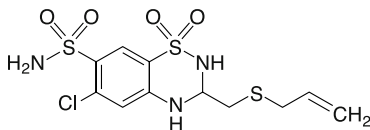
## Alprenolol

**Column:**  $\alpha$ -Burke 2,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/5/5)  $\text{CH}_2\text{Cl}_2$ /  
 $\text{EtOH}/\text{MeOH} + 10 \text{ mM NH}_4\text{OAc}$   
**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



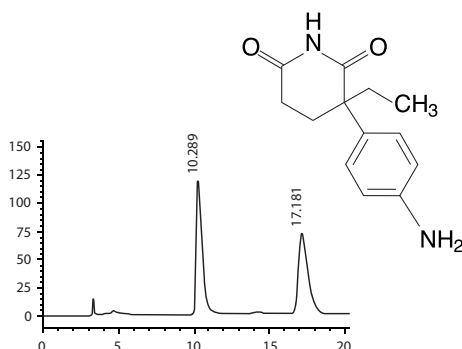
## Althiazide

**Column:** (S,S) ULMO,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (75/25)  
 $\text{Hexane}/\text{IPA} + 0.1\% \text{ Acetic Acid}$   
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 13.0 min  
**k'**: 3.94  
 **$\alpha$ :** 1.53  
**Reference:** 46  
**Catalog #:** 1-787100-300



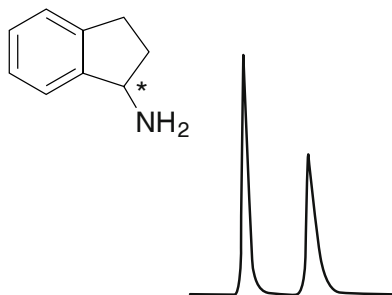
## Aminoglutethimide

**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



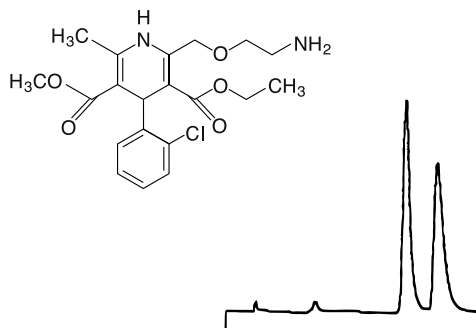
## 1-Aminoindan

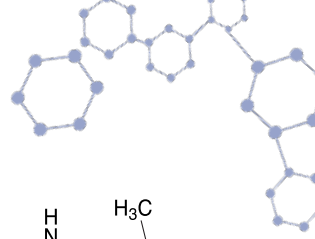
**Column:** ChiroSil,  
5  $\mu\text{m}$ , 15 cm x 4.6 mm  
**Mobile Phase:** (84/16)  
CH<sub>3</sub>OH/H<sub>2</sub>O + 5 mM HClO<sub>4</sub>  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 210 nm  
**Run Time:** 4.8 min  
**k'**: 1.44  
 **$\alpha$** : 1.91  
**Catalog #:** 1-799001-300,  
1-799101-300



## Amlodipine

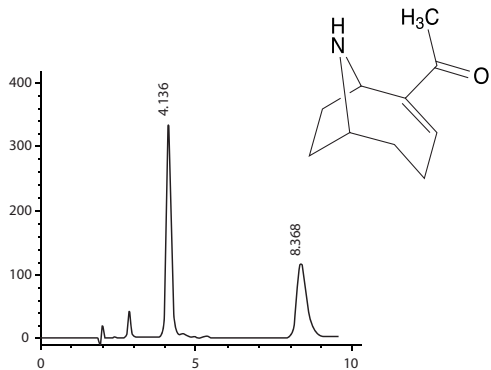
**Column:** (R,R) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (46/46/8)  
CH<sub>2</sub>Cl<sub>2</sub>/Hexane/Ethanol +  
0.01 M Ammonium Acetate  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 13.0 min  
**k'**: 5.13  
 **$\alpha$** : 1.22  
**Reference:** 46  
**Catalog #:** 1-780201-300





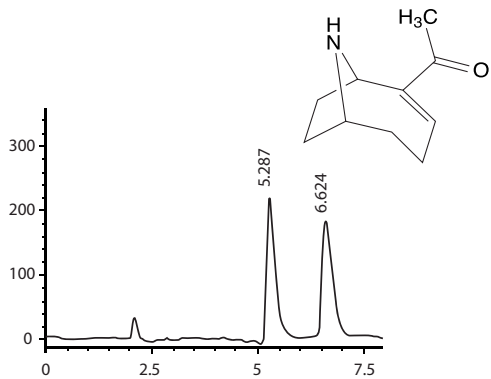
## Anatoxin-A

**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



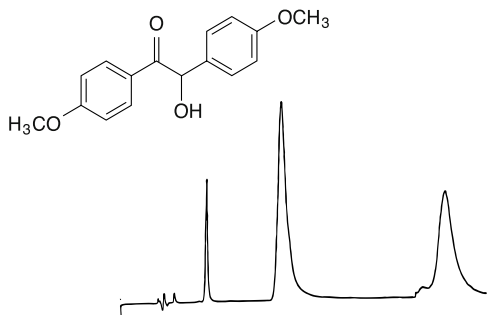
## Anatoxin-A

**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



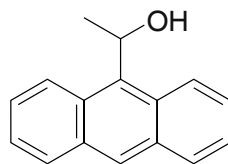
## Anisoin

**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  
**Reference:** 26  
**Catalog #:** 1-780101-300,  
1-780201-300



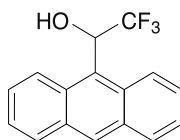
## 9-Anthrylethanol

**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 #:** 1-787200-300



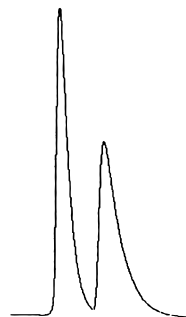
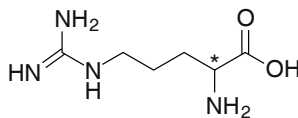
## 9-Anthryl Trifluoromethyl Carbinol

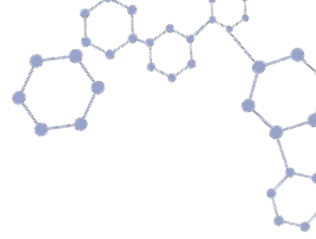
**Column:** (R,R) ULMO,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (95/5)  
Hexane/IPA  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 10 min  
**k'**: 1.36  
 **$\alpha$** : 2.02  
**Reference:** 46  
**Catalog #:** 1-787200-300



## Arginine

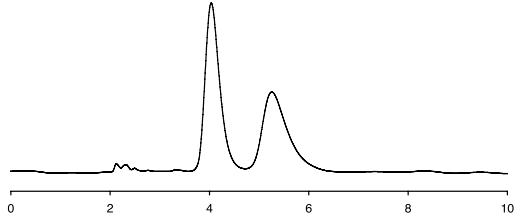
**Column:** ChiroSil,  
5  $\mu\text{m}$ , 15 cm x 4.6 mm  
**Mobile Phase:** (84/16)  
CH<sub>3</sub>OH/H<sub>2</sub>O  
+10 mM H<sub>2</sub>SO<sub>4</sub>  
**Flow Rate:** 0.8 mL/min  
**Detection:** UV 210 nm  
**Run Time:** 4.9 min  
**k'**: 1.21  
 **$\alpha$** : 1.64  
**Catalog #:** 1-799001-300,  
1-799101-300





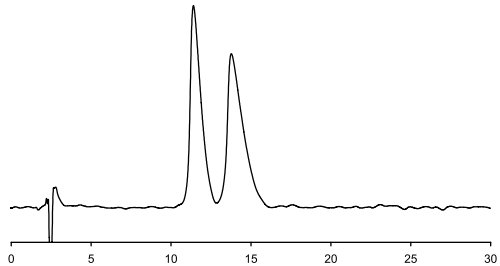
## DL-Arginine

**Column:** ChiroSil ME RCA(+),  
5  $\mu\text{m}$ , 15 cm x 4.6 mm  
**Mobile Phase:** (50/50)  
5 mM HClO<sub>4</sub> Acid/MeOH  
**Flow Rate:** 0.5 mL/min  
**Detection:** UV 210 nm  
**Temperature:** 10°C  
**k':** 0.66  
 **$\alpha$ :** 1.40  
**Catalog #:** 1-788001-300



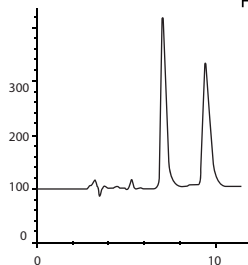
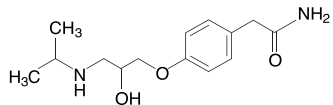
## DL- Asparagine

**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°C  
**k':** 3.63  
 **$\alpha$ :** 1.22  
**Catalog #:** 1-788001-300



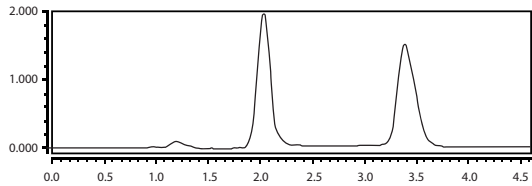
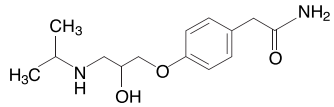
## Atenolol

**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (70/30)  
Hexane/IPA + 0.1% DEA  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**k':** 1.35  
 **$\alpha$ :** 1.58  
**Catalog #:** 1-784104-300



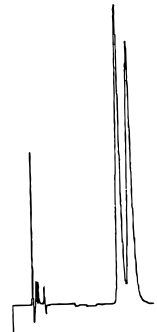
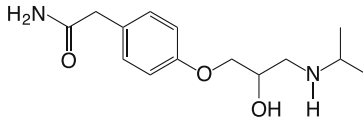
## Atenolol

**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°C  
**Pressure:** 125 bar  
**Detection:** UV 220 nm  
**k':** 1.72  
 **$\alpha$ :** 2.05  
**Catalog #:** 1-784104-300



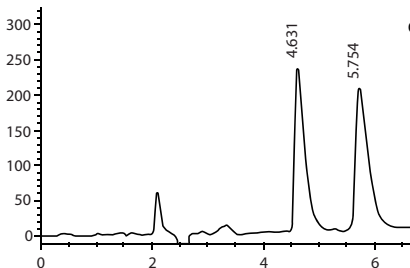
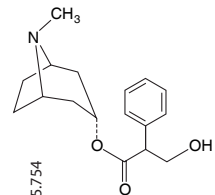
## Atenolol

**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

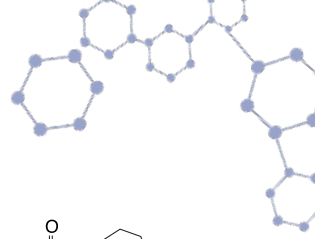


## Atropine

**Column:** 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':** 1.44  
 **$\alpha$ :** 1.41  
**CAS #:** 51-55-8  
**Catalog #:** 1-784104-300

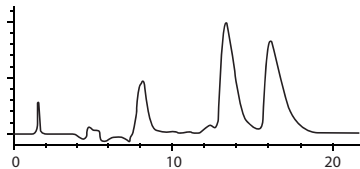
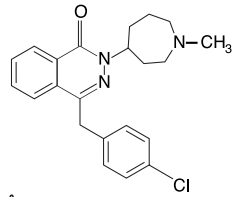






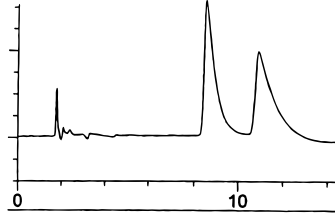
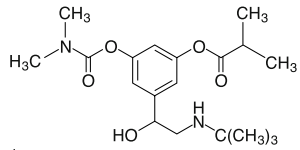
## Azelastine

**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 #:** 1-786447-300



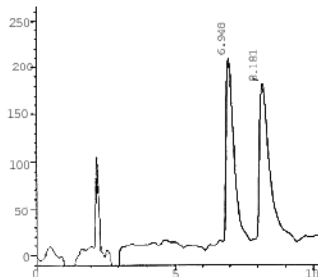
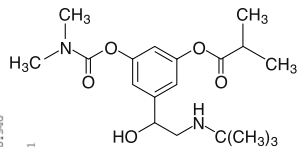
## Bambuterol

**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  
**Reference:** 46  
**Catalog #:** 1-735035-300



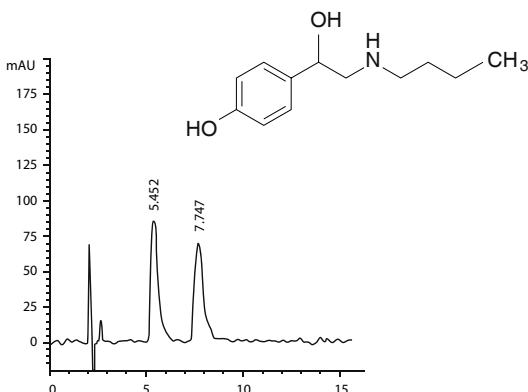
## Bambuterol

**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



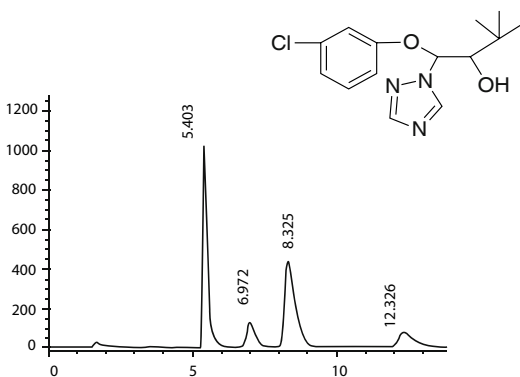
## Bamethane

**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



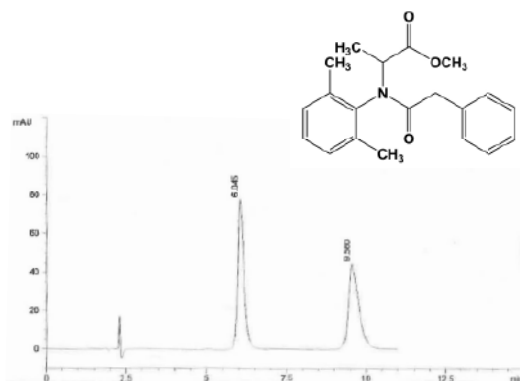
## Baytan

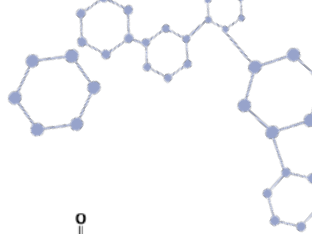
**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (95/5)  
Hexane/Ethanol  
**Flow Rate:** 2.0 mL/min  
**Detection:** UV 220 nm  
**k'**: 2.73  
**k'**: 3.81  
 **$\alpha_{1,3}$** : 1.74  
 **$\alpha_{2,4}$** : 1.97  
**CAS #:** 55219-65-3  
**Catalog #:** 1-783104-300



## 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'**: 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

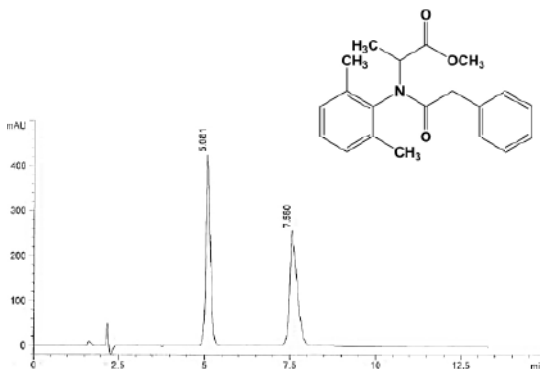
**Flow Rate:** 1.0 mL/min

**Detection:** UV 254 nm

**$k'_1$ :** 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

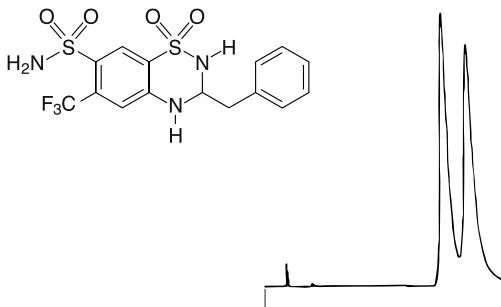
**$k'_1$ :** 7.89

**$\alpha$ :** 1.16

**Run Time:** 30 min

**Reference:** 18

**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

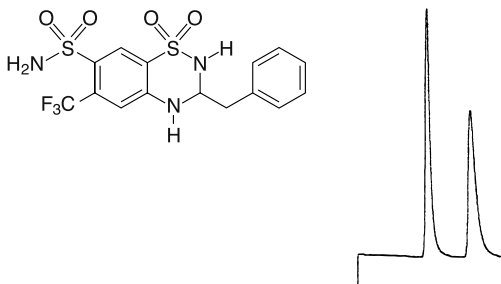
**Run Time:** 18 min

**$k'_1$ :** 2.99

**$\alpha$ :** 1.84

**Reference:** 46

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



## Benfluorex

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

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

Hexane/Ethanol  
+ 0.1% Acetic Acid  
+ 0.1% DEA

**Flow Rate:** 1.5 mL/min

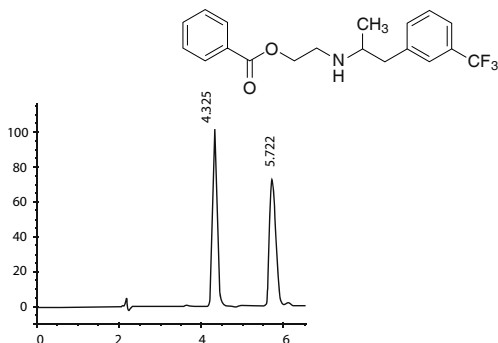
**Detection:** UV 254 nm

**k':** 1.28

**$\alpha$ :** 1.58

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

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



## Benzoin

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

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

Hexane/IPA

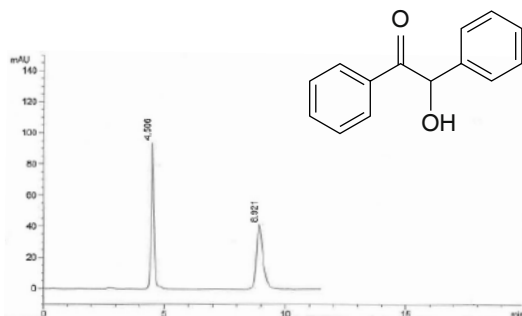
**Flow Rate:** 1.5 mL/min

**Detection:** UV 254 nm

**k':** 1.33

**$\alpha$ :** 2.71

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



## Benzoin

**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

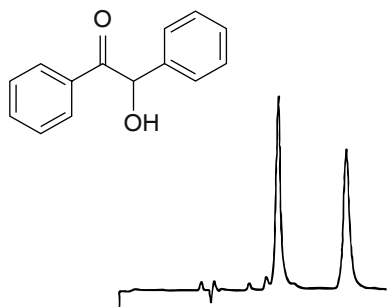
**Detection:** UV 254 nm

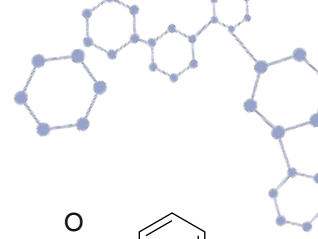
**k':** 0.86

**$\alpha$ :** 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

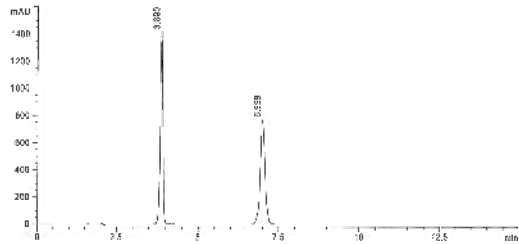
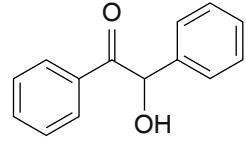
**Flow Rate:** 1.0 mL/min

**Detection:** UV 254 nm

**$k'$ :** 2.44

**$\alpha$ :** 1.24

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



## Benzoin

**Column:** (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

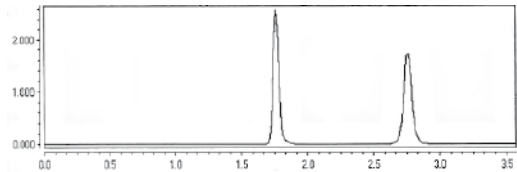
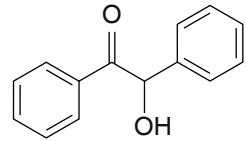
**Pressure:** 125 bar

**Detection:** UV 254 nm

**$k'$ :** 1.34

**$\alpha$ :** 1.99

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



## Benzoin

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

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

**Flow Rate:** 1.5 mL/min

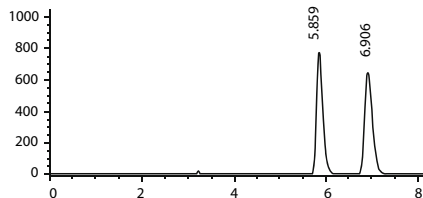
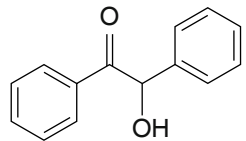
**Detection:** UV 254 nm

**$k'$ :** 2.08

**$\alpha$ :** 1.26

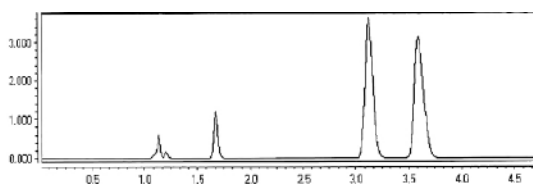
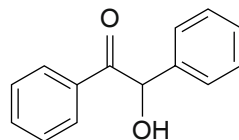
**CAS #:** 119-53-9

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



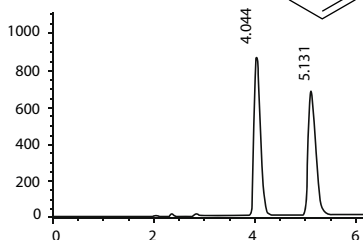
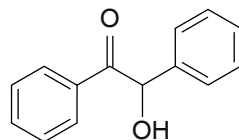
## Benzoin

**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°C  
**Pressure:** 125 bar  
**Detection:** UV 254 nm  
 **$k'$ :** 3.17  
 **$\alpha$ :** 1.20  
**Catalog #:** 1-783104-300



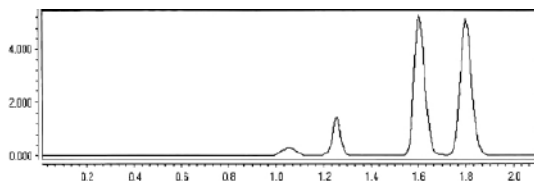
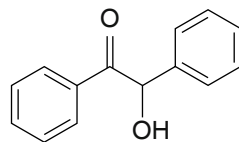
## Benzoin

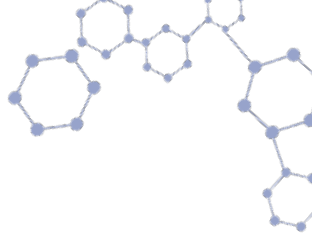
**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (80/20)  
Hexane/IPA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 12.0 min  
 **$k'$ :** 1.13  
 **$\alpha$ :** 1.51  
**CAS #:** 119-53-9  
**Catalog #:** 1-784104-300



## Benzoin

**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°C  
**Pressure:** 125 bar  
**Detection:** UV 254 nm  
 **$k'$ :** 1.13  
 **$\alpha$ :** 1.24  
**Catalog #:** 1-784104-300





## 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

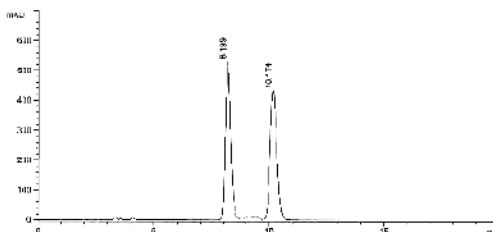
**Detection:** UV 220 nm

**k'1:** 3.32

**k'2:** 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°C

**Pressure:** 126 bar

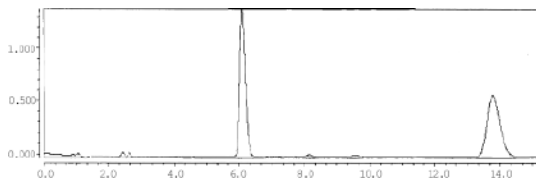
**Detection:** UV 220 nm

**k'1:** 7.13

**k'2:** 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

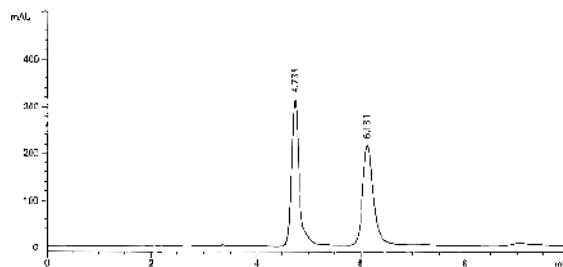
**Detection:** UV 220 nm

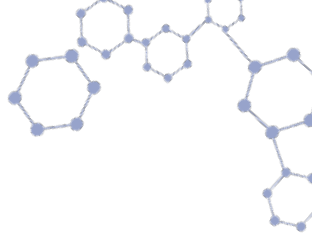
**k'1:** 1.49

**k'2:** 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

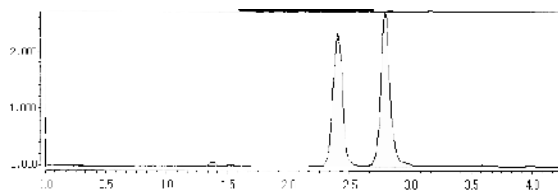
**Detection:** UV 254 nm

**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

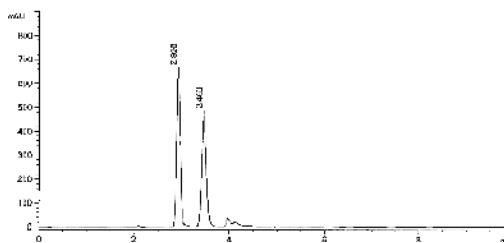
**Detection:** UV 220 nm

**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

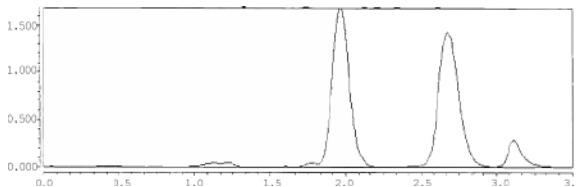
**Pressure:** 123 bar

**Detection:** UV 254 nm

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

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

**$\alpha$ :** 1.58

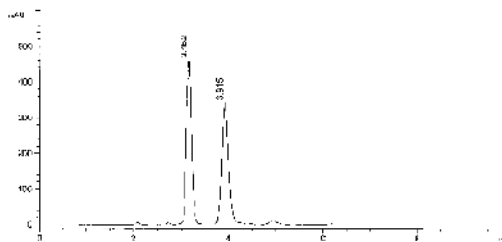




## 1,3-Benzothiazoles

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

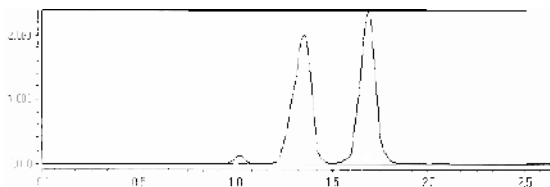
**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
Hexane/IPA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
**k'1:** 0.66  
**k'2:** 1.06  
 **$\alpha$ :** 1.61  
**Catalog #:** 1-784104-300



## 1,3-Benzothiazoles

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

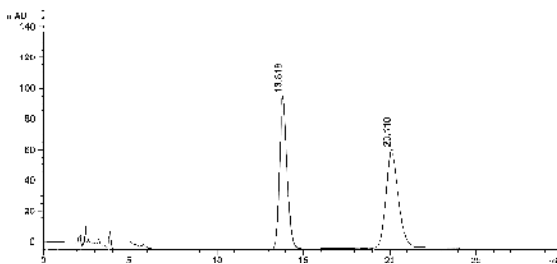
**Column:** RegisCell, 5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (80/20) CO<sub>2</sub>/Ethanol  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40°C  
**Pressure:** 126 bar  
**Detection:** UV 254 nm  
**k'1:** 0.81  
**k'2:** 1.25  
 **$\alpha$ :** 1.54  
**Catalog #:** 1-784104-300

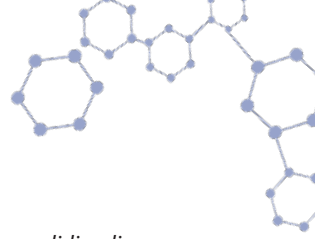


## 1,3-Benzothiazoles

*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'1:** 6.27  
**k'2:** 9.58  
 **$\alpha$ :** 1.53  
**Catalog #:** 1-783104-300

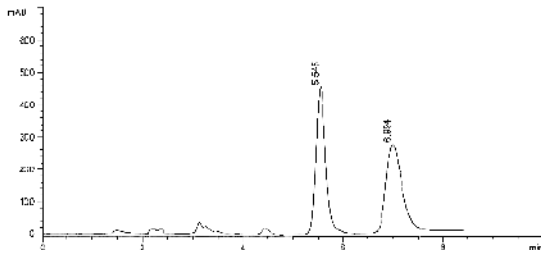




## 1,3-Benzothiazoles

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

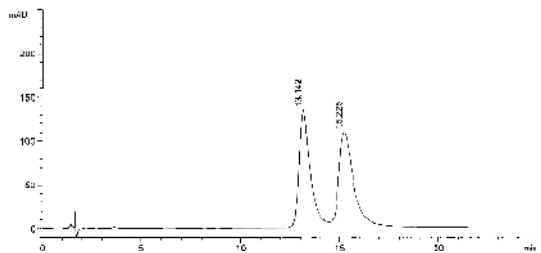
**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** 100%  
Methanol  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
**k'1:** 1.92  
**k'2:** 2.68  
 **$\alpha$ :** 1.40  
**Catalog #:** 1-784104-300



## 1,3-Benzothiazoles

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

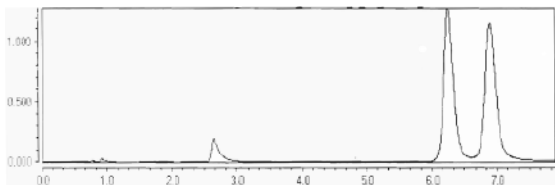
**Column:** (S,S) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (65/35)  
Hexane/IPA  
**Flow Rate:** 2.0 mL/min  
**Detection:** UV 220 nm  
**k'1:** 8.06  
**k'2:** 9.52  
 **$\alpha$ :** 1.18  
**Catalog #:** 1-780101-300



## 1,3-Benzothiazoles

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

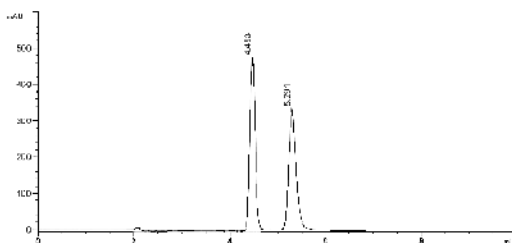
**Column:** (S,S) Whelk-O 1, 5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (75/25)  
CO<sub>2</sub>/CH<sub>3</sub>OH  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40°C  
**Pressure:** 125 bar  
**Detection:** UV 220 nm  
**k'1:** 7.33  
**k'2:** 8.19  
 **$\alpha$ :** 1.12  
**Catalog #:** 1-780101-300



## 1,3-Benzothiazoles

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

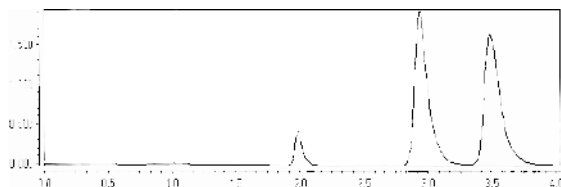
**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (70/30)  
Hexane/Ethanol  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
**k'1:** 1.35  
**k'2:** 1.78  
 **$\alpha$ :** 1.32  
**Catalog #:** 1-783104-300



## 1,3-Benzothiazoles

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

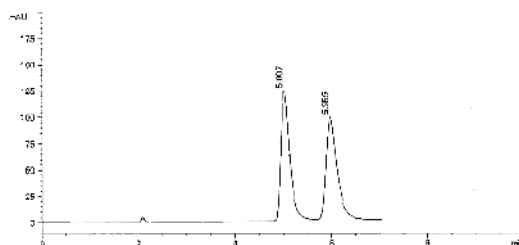
**Column:** RegisPack, 5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (70/30)  
CO<sub>2</sub>/CH<sub>3</sub>OH  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40°C  
**Pressure:** 125 bar  
**Detection:** UV 220 nm  
**k'1:** 2.92  
**k'2:** 3.62  
 **$\alpha$ :** 1.25  
**Catalog #:** 1-783104-300

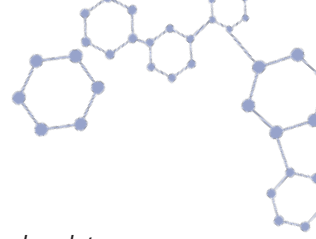


## 1,3-Benzothiazoles

*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  $\mu\text{m}$ , 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°C

**Pressure:** 125 bar

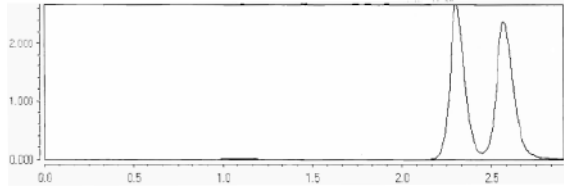
**Detection:** UV 220 nm

**$k'_1$ :** 2.08

**$k'_2$ :** 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  $\mu\text{m}$ , 25 cm x 4.6 mm

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

Hexane/IPA

**Flow Rate:** 1.5 mL/min

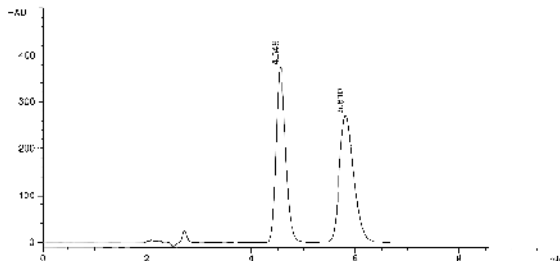
**Detection:** UV 220 nm

**$k'_1$ :** 1.39

**$k'_2$ :** 2.06

**$\alpha$ :** 1.48

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



## 1-(4-Benzyloxy) 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

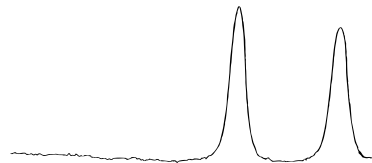
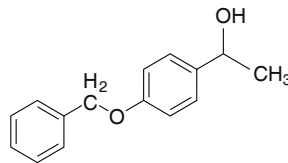
**Run Time:** 11.0 min

**$k'_1$ :** 5.21

**$\alpha$ :** 1.21

**Reference:** 60

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



## $\beta$ -Blocker

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

5  $\mu$ m, 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

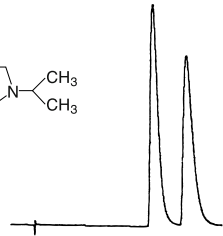
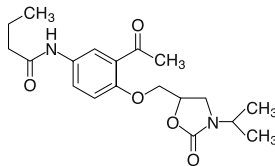
**Run Time:** 18.0 min

**k'**: 4.52

**$\alpha$** : 1.29

**Reference:** 59

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



## $\beta$ -Blocker

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

5  $\mu$ m, 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

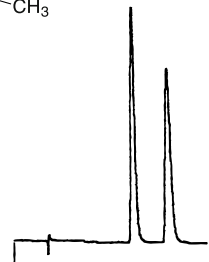
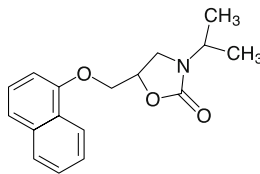
**Run Time:** 11.0 min

**k'**: 2.27

**$\alpha$** : 1.42

**Reference:** 59

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



## Beta Naphthyl Methyl Carbinol

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

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

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

Hexane/IPA

**Flow Rate:** 1.0 mL/min

**Detection:** UV 254 nm

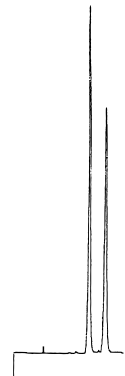
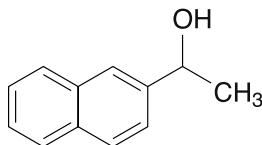
**Run Time:** 9 min

**k'**: 1.64

**$\alpha$** : 1.34

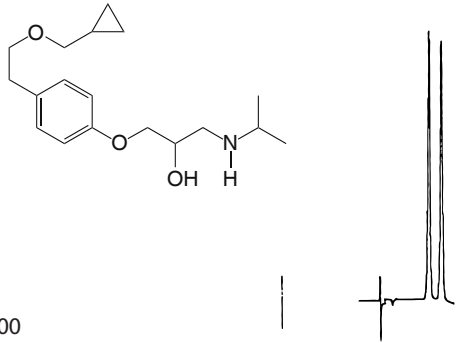
**Reference:** 46

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



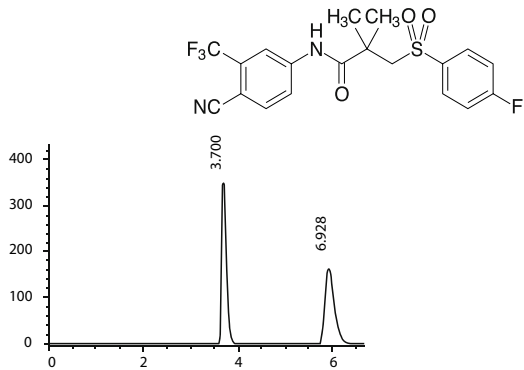
## Betaxolol

**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:** 33  
**Catalog #:** 1-735035-300, 1-735037-300



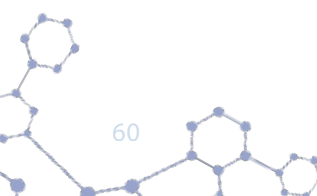
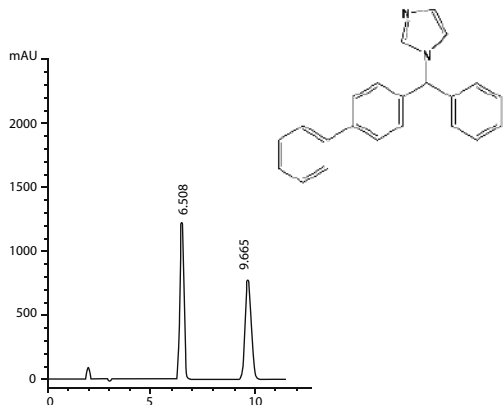
## Bicalutamide

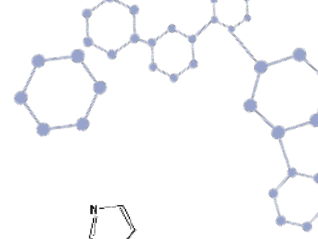
**Column:** RegisPack,  
 5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (70/30)  
 Hexane/Ethanol  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
 **$k'$ :** 0.91  
 **$\alpha$ :** 2.28  
**CAS #:** 90357-06-5  
**Catalog #:** 1-783104-300



## Bifonazole

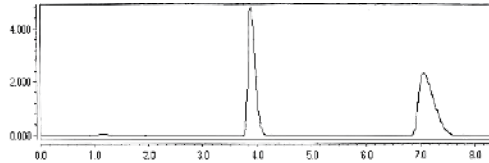
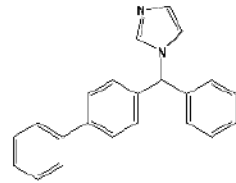
**Column:** RegisPack,  
 5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Flow Rate:** (80/20)  
 Hexane/Ethanol  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
 **$k'$ :** 2.43  
 **$\alpha$ :** 1.68  
**CAS #:** 60628-96-8  
**Catalog #:** 1-783104-300





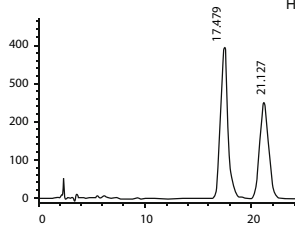
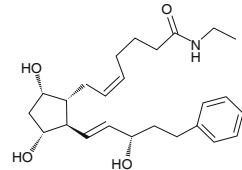
## Bifonazole

**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°C  
**Pressure:** 125 bar  
**Detection:** UV 220 nm  
 **$k'$ :** 4.17  
 **$\alpha$ :** 2.02  
**Catalog #:** 1-783104-300



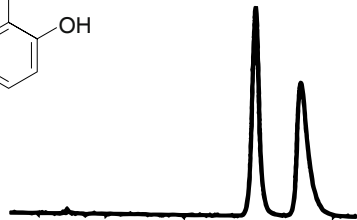
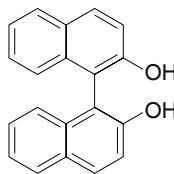
## Bimatoprost

**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



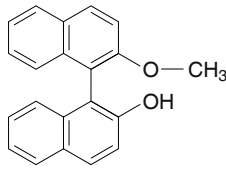
## 1,1'-Bi-2-Naphthol

**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:** 48  
**Catalog #:** 1-787100-300



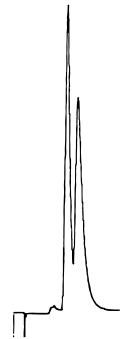
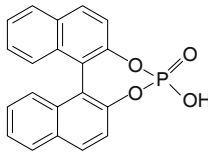
## 1,1'-Binaphthol Monomethylether

**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:** 48  
**Catalog #:** 1-787100-300



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

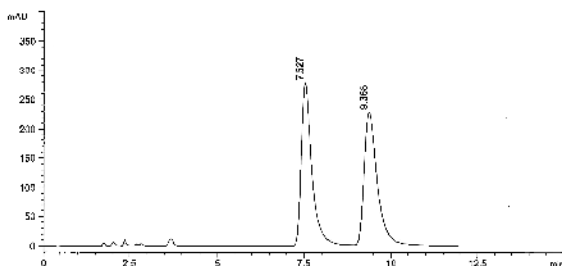
**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (56/44)  
 $\text{H}_2\text{O}/\text{MeOH}$  + 0.1% HOAc  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 18 min  
**k':** 4.46  
 **$\alpha$ :** 1.27  
**Catalog #:** 1-780101-300, 1-780201-300



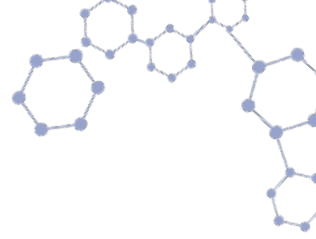
## Biphenyls

*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':** 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

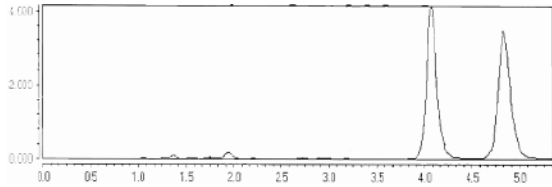
**Detection:** UV 254 nm

**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

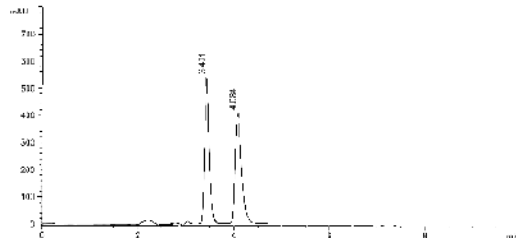
**Detection:** UV 220 nm

**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

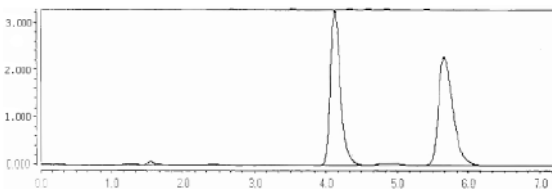
**Detection:** UV 254 nm

**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°C

**Pressure:** 125 bar

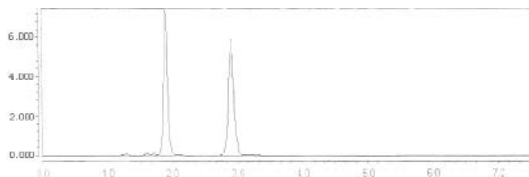
**Detection:** UV 254 nm

**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

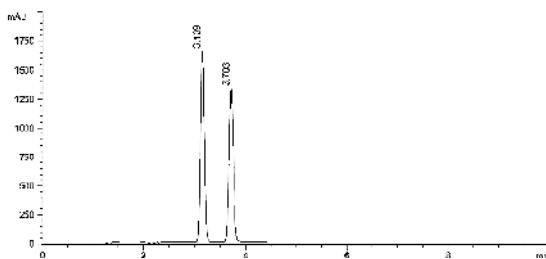
**Detection:** UV 220 nm

**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°C

**Pressure:** 124 bar

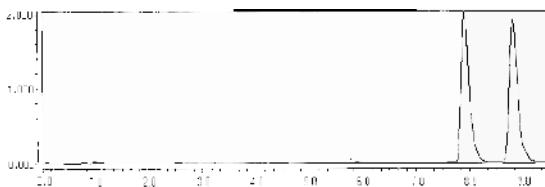
**Detection:** UV 220 nm

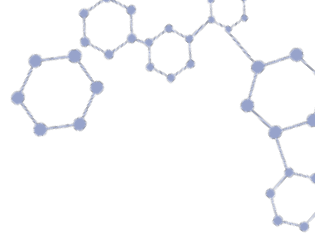
**k'1:** 9.55

**k'2:** 10.75

**$\alpha$ :** 1.13

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

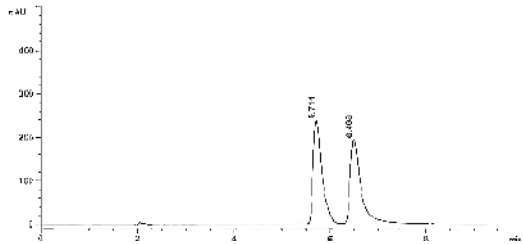




## Biphenyls

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

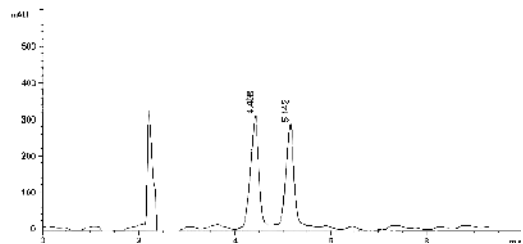
**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (70/30)  
Hexane/Ethanol  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
**k'**: 2.01  
**k'**: 2.42  
 **$\alpha$ :** 1.20  
**Catalog #:** 1-783104-300



## Biphenyls

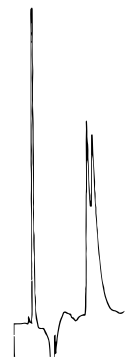
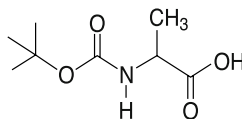
*1-[[3-(2-biphenyloxy)propyl]amino]-2-propanol ethanedioate (salt)*

**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'**: 1.32  
**k'**: 1.71  
 **$\alpha$ :** 1.30  
**Catalog #:** 1-783104-300



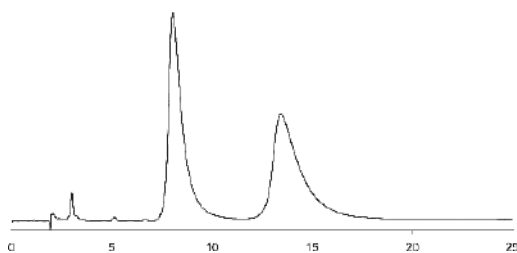
## BOC-Ala

**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  
**Reference:** 18  
**Catalog #:** 1-780101-300,  
1-780201-300



## DL-BPA

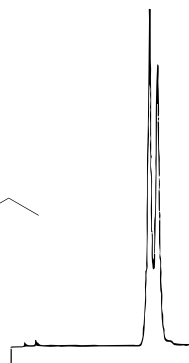
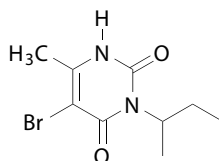
**Column:** ChiroSil ME RCA(+),  
5  $\mu\text{m}$ , 15 cm x 4.6 mm  
**Mobile Phase:** (30/70) 0.01%  
Phosphoric Acid/MeOH  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 210 nm  
**Temperature:** 0°C  
**k':** 3.14  
 **$\alpha$ :** 1.88  
**Catalog #:** 1-788001-300



## Bromacil

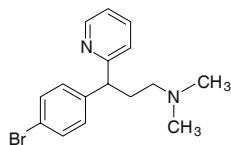
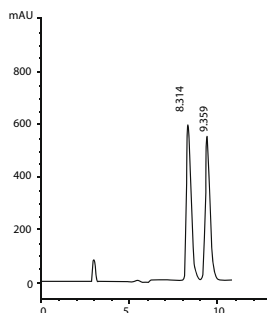
*Insecticide*

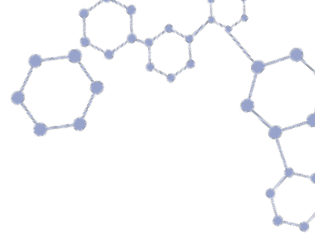
**Column:** Whelk-O 1, 5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (98/2) Hexane/IPA  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**k':** 21.43  
 **$\alpha$ :** 1.07  
**Run Time:** 38 min  
**Reference:** 43  
**Catalog #:** 1-780101-300,  
1-780201-300



## Bromphenaramine

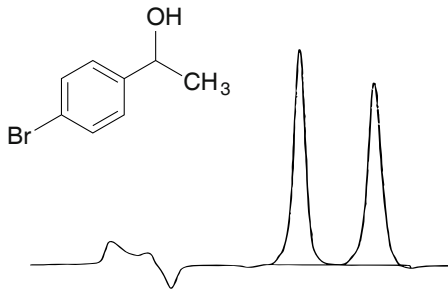
**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (95/5)  
Hexane/IPA + 0.1% DEA  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**k':** 1.87  
 **$\alpha$ :** 1.19  
**CAS #:** 80-22-6  
**Catalog #:** 1-783104-300





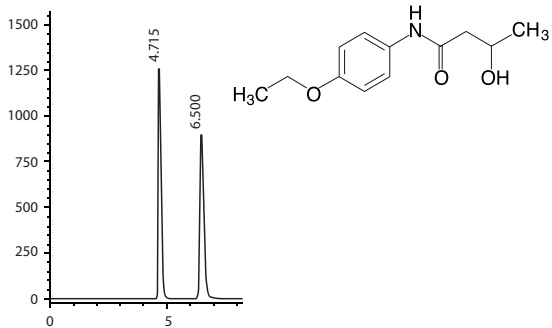
## 1-(p-Bromophenyl) Ethanol

**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:** 60  
**Catalog #:** 1-787100-300



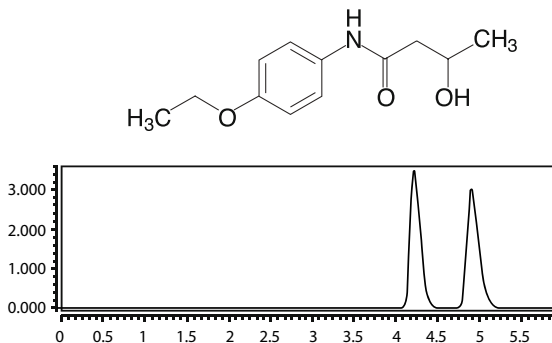
## Bucetin

**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 254 nm  
**k'**: 1.48  
 **$\alpha$** : 1.64  
**CAS #:** 1083-57-4  
**Catalog #:** 1-783104-300



## Bucetin

**Column:** RegisPack,  
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°C  
**Pressure:** 125 bar  
**Detection:** UV 254 nm  
**k'**: 4.56  
 **$\alpha$** : 1.20  
**Catalog #:** 1-783104-300



## Bucetin

**Column:** RegisPack CLA-1,  
3  $\mu\text{m}$ , 15 cm x 4.6 mm

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

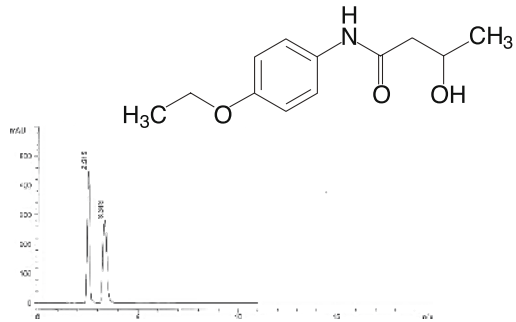
**Flow Rate:** 1.5 mL/min

**Detection:** UV 254 nm

**k':** 1.17

**$\alpha$ :** 1.61

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



## 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

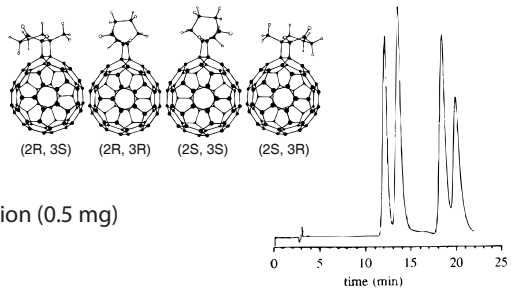
**Detection:** UV 400 nm

**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

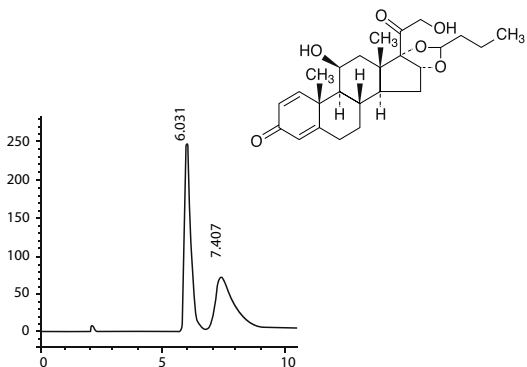
**Detection:** UV 243 nm

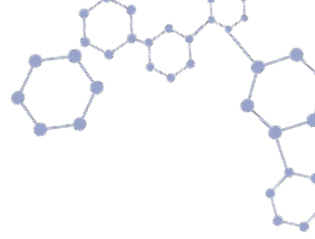
**k':** 2.17

**$\alpha$ :** 1.34

**CAS #:** 51333-22-3

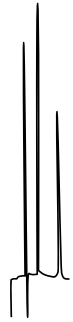
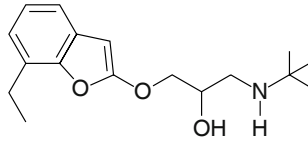
**Catalog #:** 1-783104-300





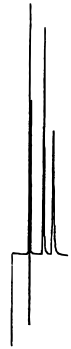
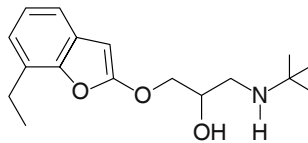
## Bufuralol

**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  
**Reference:** 33  
**Catalog #:** 1-735035-300,  
1-735037-300



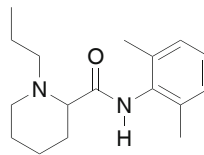
## Bufuralol

**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  
**Reference:** 46  
**Catalog #:** 1-731044-300



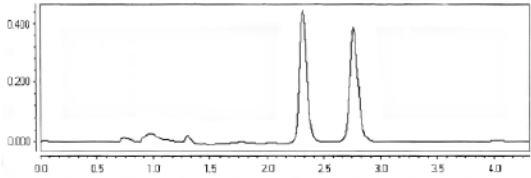
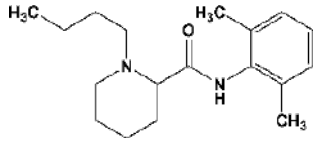
## Bupivacaine

**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  
**Reference:** 18  
**Catalog #:** 1-780101-300



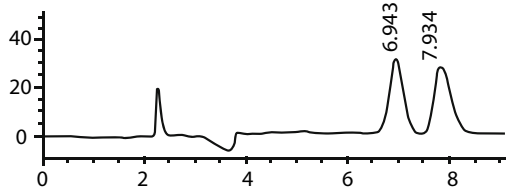
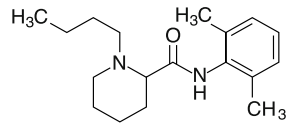
## Bupivacaine

**Column:** (S,S) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (75/25)  $\text{CO}_2$ /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



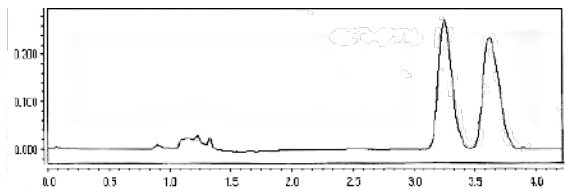
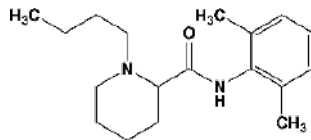
## Bupivacaine

**Column:** 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':** 1.71  
 **$\alpha$ :** 1.18  
**CAS #:** 2180-92-9  
**Catalog #:** 1-783104-300

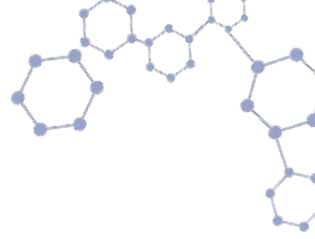


## Bupivacaine

**Column:** RegisPack,  
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°C  
**Pressure:** 125 bar  
**Detection:** UV 254 nm  
**k':** 3.34  
 **$\alpha$ :** 1.15  
**Catalog #:** 1-783104-300







## Bupranolol

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

**Mobile Phase:** (85/15)  
CH<sub>2</sub>Cl<sub>2</sub>/Ethanol + 0.015M  
Ammonium Acetate

**Flow Rate:** 1.0 mL/min

**Detection:** UV 254 nm

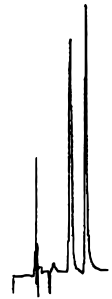
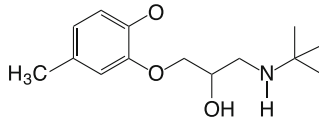
**Run Time:** 8.5 min

**k'**: 1.44

**$\alpha$** : 1.47

**Reference:** 46

**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

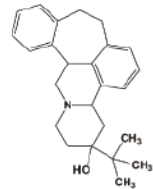
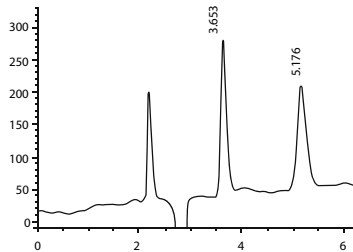
**Detection:** UV 220 nm

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

**Flow Rate:** 4.0 mL/min

**Temperature:** 40°C

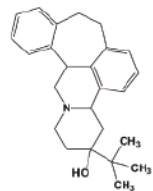
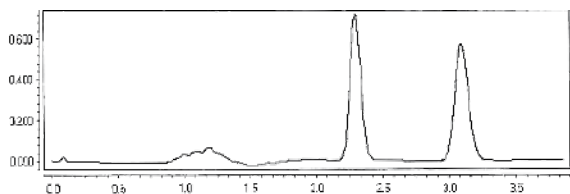
**Pressure:** 125 bar

**Detection:** UV 220 nm

**k'**: 2.06

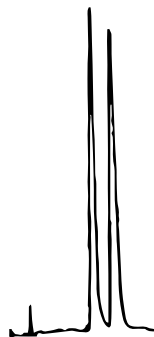
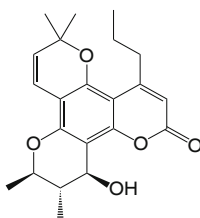
**$\alpha$** : 1.52

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



## Calanolide A

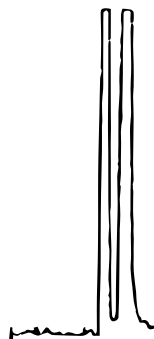
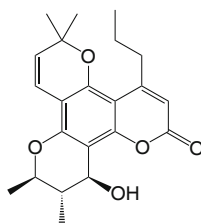
**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (10/90)  
IPA/Hexane  
**Flow Rate:** 1.25 mL/min  
**Detection:** UV 270 nm  
**Run Time:** 18 min  
**k':** 3.2  
 **$\alpha$ :** 1.4  
**Reference:** 16  
**Catalog #:** 1-780101-300



## Calanolide A

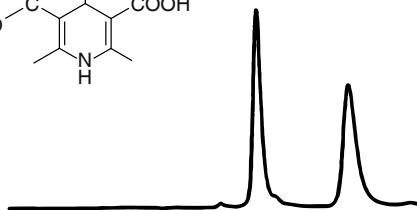
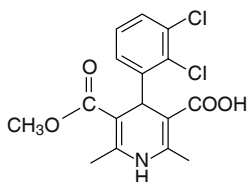
*Semi prep*

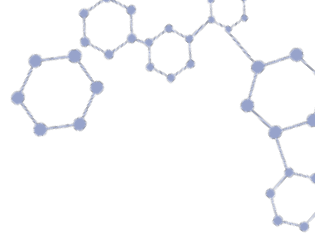
**Column:** Whelk-O 1, 5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (10/90) IPA/Hexane  
**Flow Rate:** 1.25 mL/min  
**Detection:** UV 270 nm  
**Run Time:** 18 min  
**Sample:** 5 mg  
**k':** 3.2  
 **$\alpha$ :** 1.4  
**Reference:** 16  
**Catalog #:** 1-780101-300



## Calcium Channel Blocker

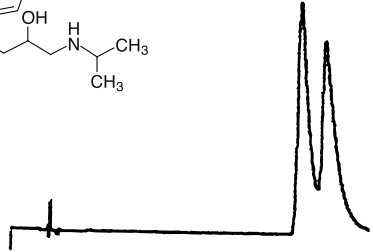
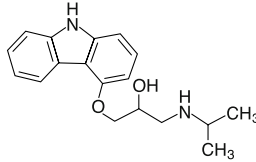
**Column:** (S,S) ULMO,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (99/1)  
Heptane/IPA + 0.1% TFA  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 230 nm  
**Run Time:** 6 min  
**k':** 0.55  
 **$\alpha$ :** 2.06  
**Reference:** 48  
**Catalog #:** 1-787100-300





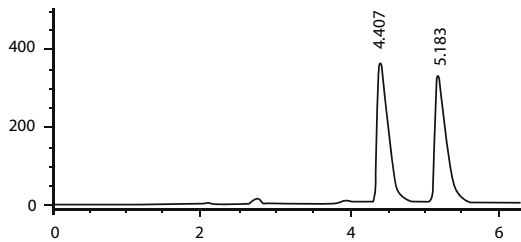
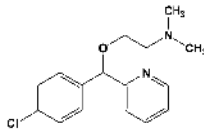
## Carazolol

**Column:** (R)  $\alpha$ -Burke 2,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (46/46/8)  
CH<sub>2</sub>Cl<sub>2</sub>/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  
**Reference:** 46  
**Catalog #:** 1-735035-300



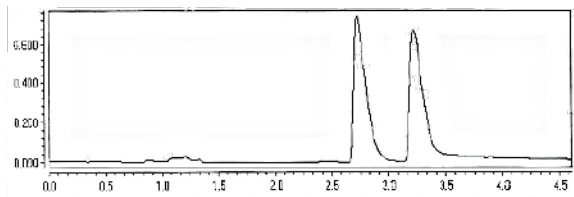
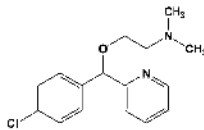
## Carbinoxamine

**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



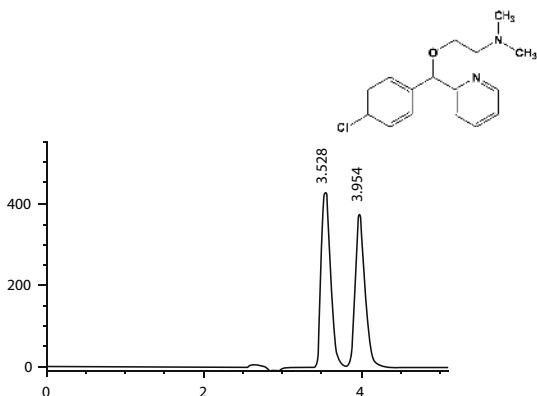
## Carbinoxamine

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (85/15)  
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'**: 2.64  
 **$\alpha$ :** 1.25  
**Catalog #:** 1-783104-300



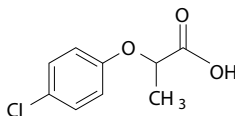
## Carbinoxamine

**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



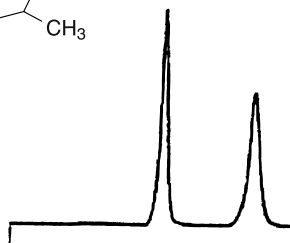
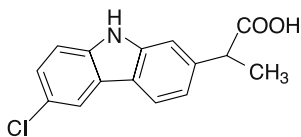
## Carboxylic Acid

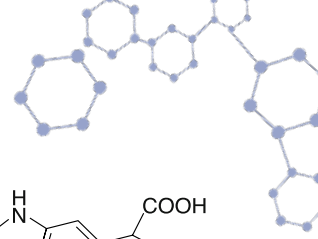
**Column:** (S,S) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (95/5)  
Hexane/IPA + 0.1%  
Trifluoroacetic Acid  
**Flow Rate:** 2.0 mL/min  
**Detection:** UV 254 nm  
**k'**: 0.84  
 **$\alpha$ :** 1.36  
**Run Time:** 3.5 min  
**Reference:** 49  
**Catalog #:** 1-780101-300



## Carprofen

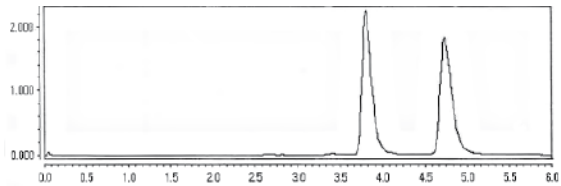
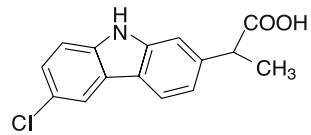
**Column:** (R,R) Whelk-O 1,  
10  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (85/15)  
Hexane/IPA + 0.1% Acetic Acid  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**k'**: 4.70  
 **$\alpha$ :** 1.73  
**Reference:** 46  
**Catalog #:** 1-786515-300





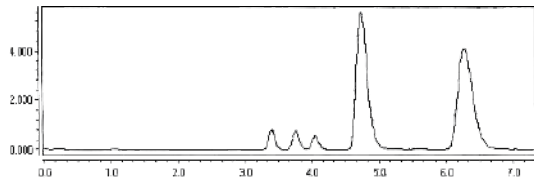
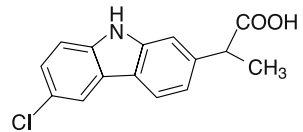
## Carprofen

**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



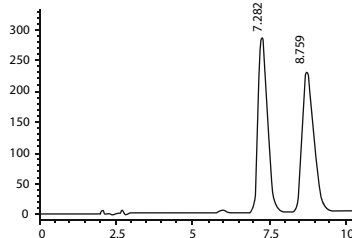
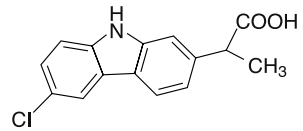
## Carprofen

**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



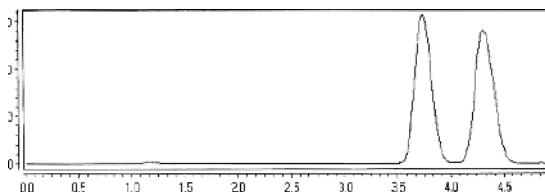
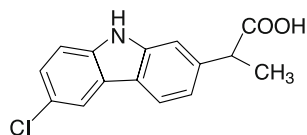
## Carprofen

**Column:** RegisCell,  
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 254 nm  
**k'**: 2.83  
 **$\alpha$** : 1.27  
**CAS #:** 53716-49-7  
**Catalog #:** 1-784104-300



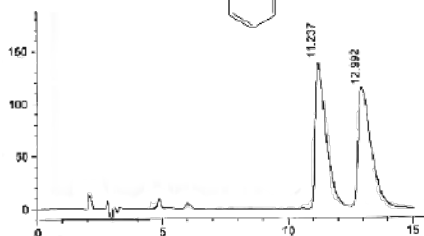
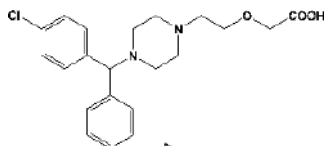
## Carprofen

**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (80/20)  
 $\text{CO}_2/\text{IPA} + 0.5\% \text{ TFA}$   
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40°C  
**Pressure:** 125 bar  
**Detection:** UV 254 nm  
 **$k'$ :** 3.98  
 **$\alpha$ :** 1.19  
**Catalog #:** 1-784104-300



## Cetirizine

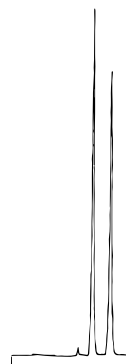
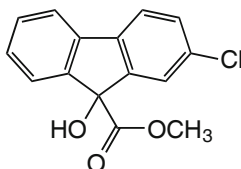
**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** Hexane/Ethanol  
+ 0.1% DEA + 0.1% Acetic Acid  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
 **$k'$ :** 4.82  
 **$\alpha$ :** 1.19  
**Catalog #:** 1-783104-300

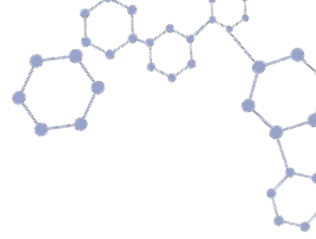


## Chlorflurecol Methyl

*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  
**Reference:** 43  
**Catalog #:** 1-780101-300, 1-780201-300





## 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

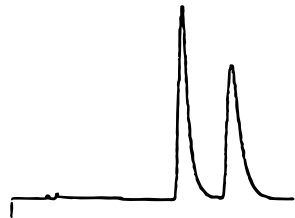
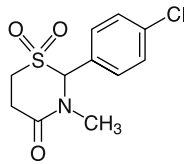
**Run Time:** 13.0 min

**$k'$ :** 4.48

**$\alpha$ :** 1.36

**Reference:** 46

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

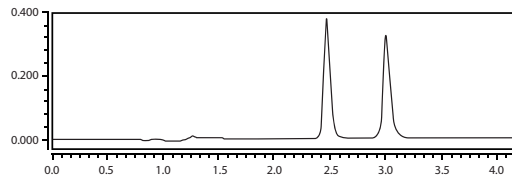
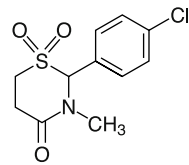
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40°C

**Pressure:** 125 bar  
**Detection:** UV 254 nm

**$k'$ :** 2.31

**$\alpha$ :** 1.31

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



## Chlormezanone

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

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

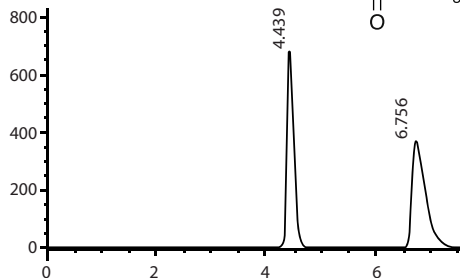
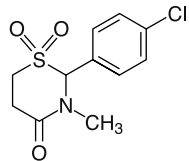
**Flow Rate:** 1.5 mL/min

**Detection:** UV 220 nm

**$k'$ :** 1.34

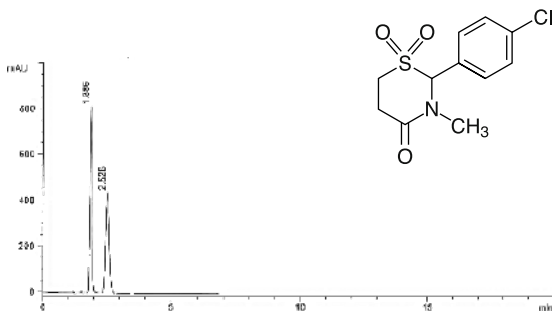
**$\alpha$ :** 1.91

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



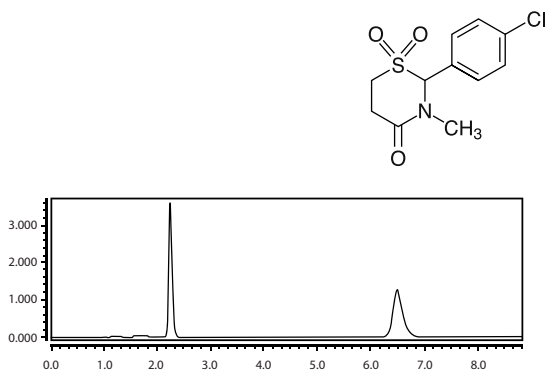
## Chlormezanone

**Column:** RegisPack,  
3  $\mu\text{m}$ , 15 cm x 4.6 mm  
**Mobile Phase:** (50/50)  
Hexane/IPA  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 220 nm  
**k'**: 0.73  
 **$\alpha$ :** 1.62  
**Catalog #:** 1-783503-300



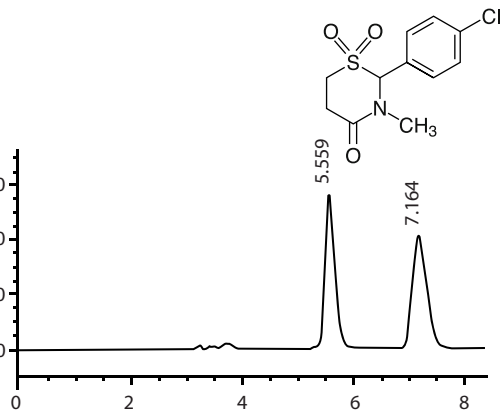
## Chlormezanone

**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°C  
**Pressure:** 125 bar  
**Detection:** UV 220 nm  
**k'**: 2.01  
 **$\alpha$ :** 3.81  
**Catalog #:** 1-783104-300

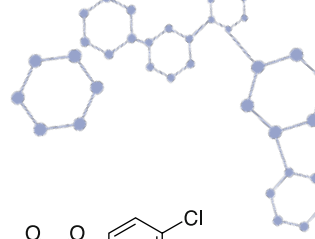


## Chlormezanone

**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** 100%  
Ethanol  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**k'**: 1.93  
 **$\alpha$ :** 1.44  
**CAS #:** 80-77-3  
**Catalog #:** 1-784104-300

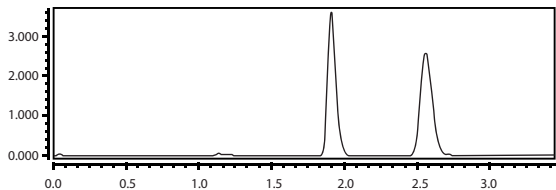
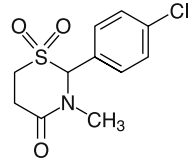






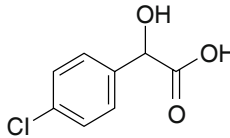
## Chlormezanone

**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (65/35)  
 $\text{CO}_2/\text{IPA}$   
**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



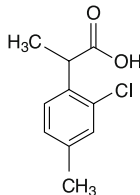
## 4-Chloromandelic Acid

**Column:** (R,R) Whelk-O 2,  
10  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (70/30)  
 $\text{H}_2\text{O}/\text{CH}_3\text{OH}$   
+ 0.1% Acetic Acid  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 10.0 min  
**k'**: 1.95  
 **$\alpha$ :** 1.43  
**Reference:** 46  
**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:** 48  
**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

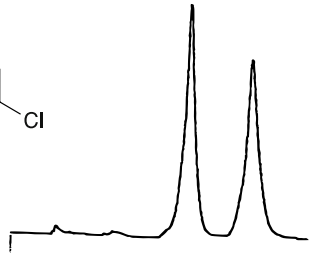
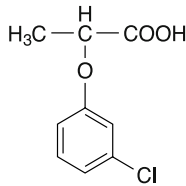
**Run Time:** 17.0 min

**k':** 6.09

**$\alpha$ :** 1.42

**Reference:** 46

**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

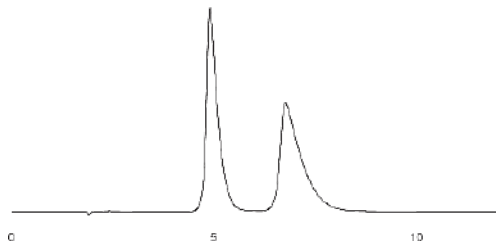
**Detection:** UV 210 nm

**Temperature:** 40°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

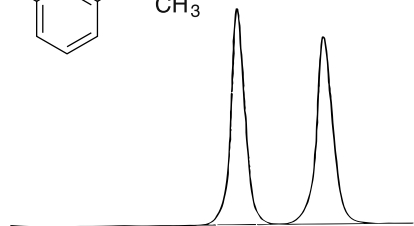
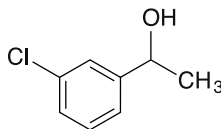
**Run Time:** 10.5 min

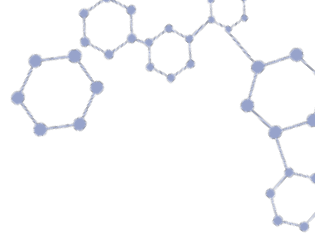
**k':** 2.13

**$\alpha$ :** 1.17

**Reference:** 60

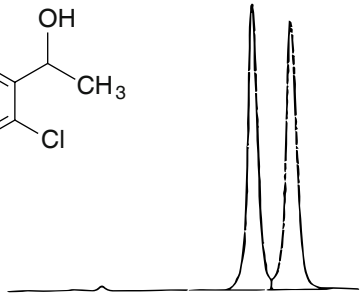
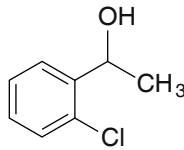
**Catalog #:** 1-787100-300





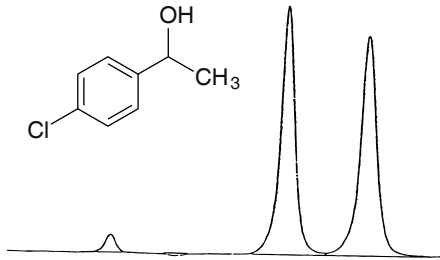
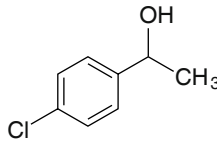
## 1-(o-Chlorophenyl) Ethanol

**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:** 60  
**Catalog #:** 1-787100-300



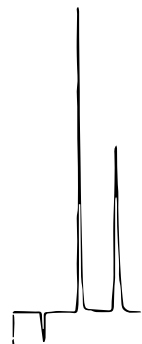
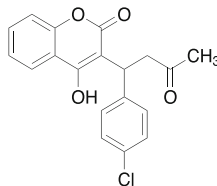
## 1-(p-Chlorophenyl) Ethanol

**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:** 60  
**Catalog #:** 1-787100-300



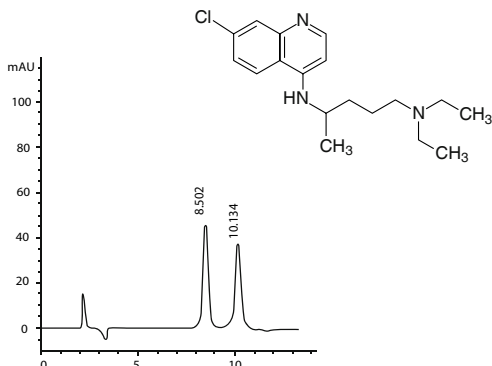
## p-Chloro-Warfarin

**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  
**Reference:** 18  
**Catalog #:** 1-780101-300, 1-780201-300



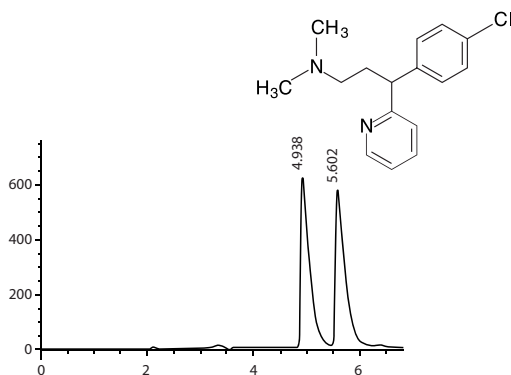
## Chloroquine

**Column:** RegisPack,  
5  $\mu$ 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  
**k':** 3.47  
 **$\alpha$ :** 1.25  
**CAS #:** 54-05-7  
**Catalog #:** 1-783104-300



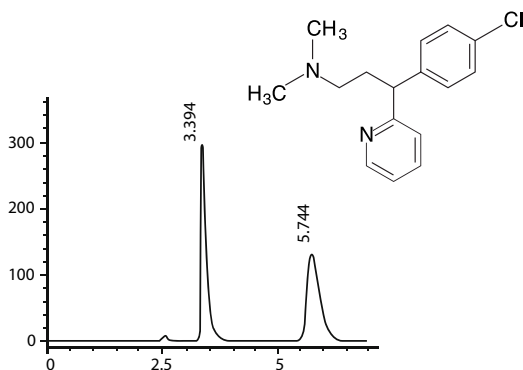
## Chlorpheniramine

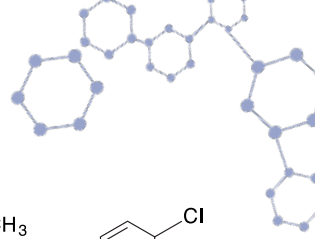
**Column:** RegisPack,  
5  $\mu$ m, 25 cm x 4.6 mm  
**Mobile Phase:** (95/5)  
Hexane/IPA + 0.1% DEA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**k':** 1.60  
 **$\alpha$ :** 1.22  
**CAS #:** 132-22-9  
**Catalog #:** 1-783104-300



## Chlorpheniramine

**Column:** RegisPack CLA-1,  
5  $\mu$ 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

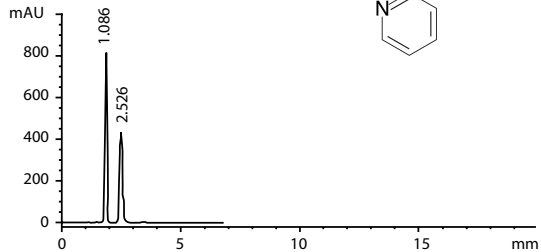
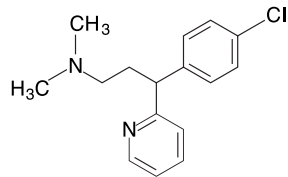
**Flow Rate:** 1.5 mL/min

**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

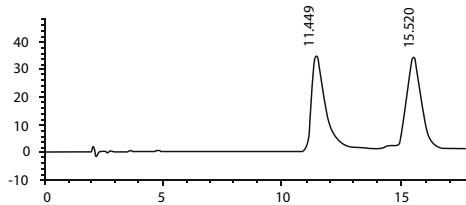
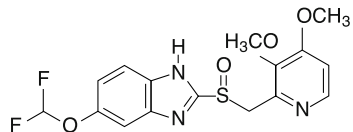
**Detection:** UV 254 nm

**$k'$ :** 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

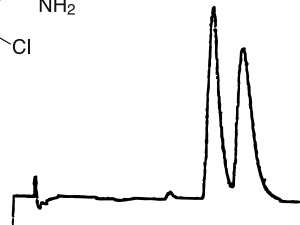
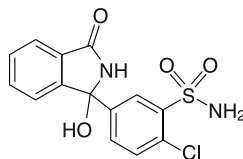
**Run Time:** 20.0 min

**$k'$ :** 9.38

**$\alpha$ :** 1.18

**Reference:** 46

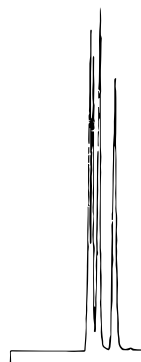
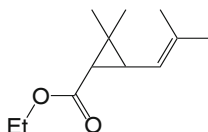
**Catalog #:** 1-788201-300



## Chrysanthemic Acid-Ethyl Ester

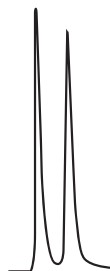
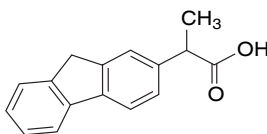
Mixture of Isomers

**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  
**Reference:** 43  
**Catalog #:** 1-780101-300, 1-780201-300



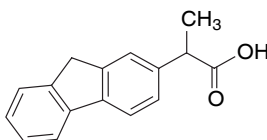
## Cicloprofen

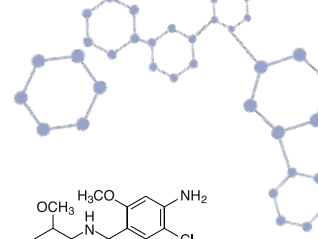
**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (70/30)  
Hexane/IPA + 0.5% HOAc  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**k':** 0.48  
 **$\alpha$ :** 1.35  
**Reference:** 26  
**Catalog #:** 1-780101-300,  
1-780201-300



## Cicloprofen

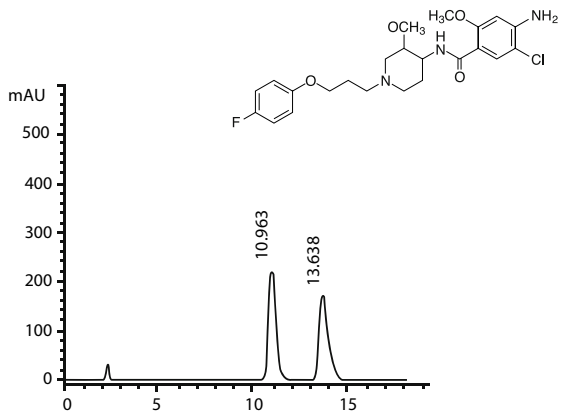
**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (20/80)  
IPA/Hexane, 1g/L  $\text{NH}_4\text{OAc}$   
**Flow Rate:** 2.0 mL/min  
**Detection:** UV 254 nm  
**k':** 1.16  
 **$\alpha$ :** 2.15  
**Reference:** 4  
**Catalog #:** 1-780101-300, 1-780201-300





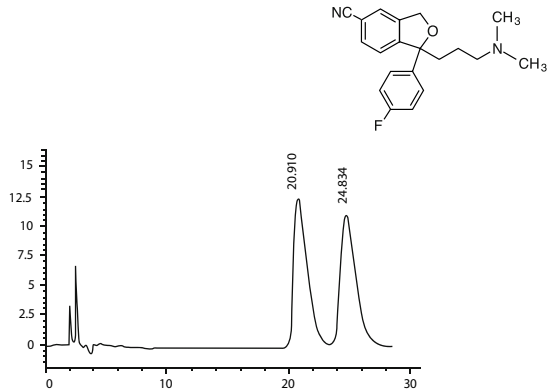
## Cisapride

**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



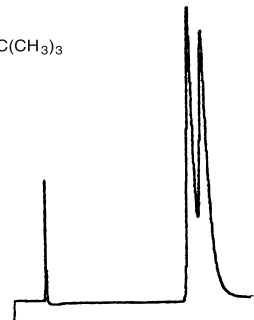
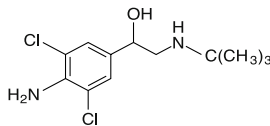
## Citalopram

**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



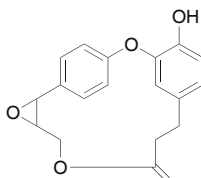
## Clenbuterol

**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  
**Reference:** 46  
**Catalog #:** 1-735035-300



## Combretastatin D-1

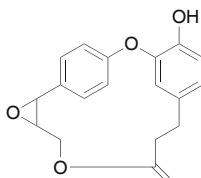
**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (20/80)  
IPA/Hexane  
**Flow Rate:** 2.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 13 min  
 **$k'$ :** 4.54  
 **$\alpha$ :** 1.45  
**Reference:** 17  
**Catalog #:** 1-780101-300, 1-780201-300



## Combretastatin D-1

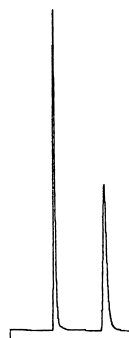
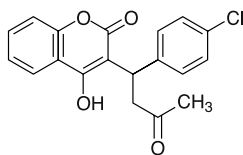
*Semi-Prep Separation*

**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (20/80)  
IPA/Hexane  
200  $\mu\text{l}$  of 12.7 mg/ml soln  
**Flow Rate:** 2.0 mL/min  
**Detection:** UV 300 nm  
**Load:** 2.5 mg  
**Run Time:** 10 min  
**Reference:** 17  
**Catalog #:** 1-780101-300, 1-780201-300

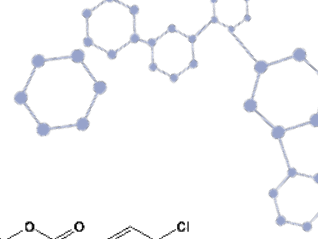


## Coumachlor

**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  
**Reference:** 46  
**Catalog #:** 1-780201-300

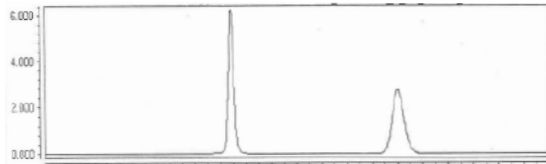
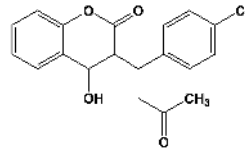






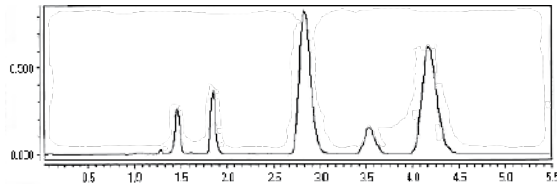
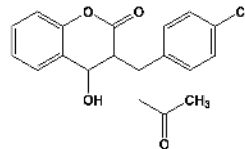
## Coumachlor

**Column:** (S,S) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (60/40)  
 $\text{CO}_2/\text{CH}_3\text{OH}$   
**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



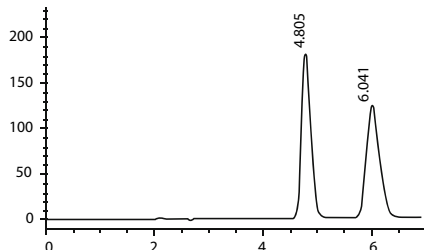
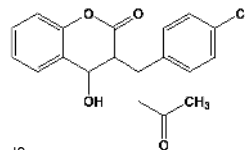
## Coumachlor

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (70/30)  
 $\text{CO}_2/\text{CH}_3\text{OH}$   
**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



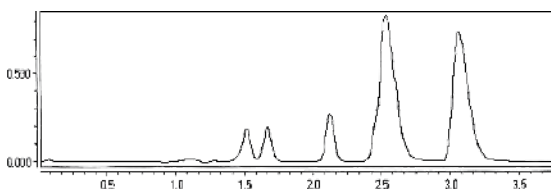
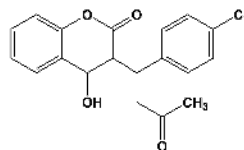
## Coumachlor

**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



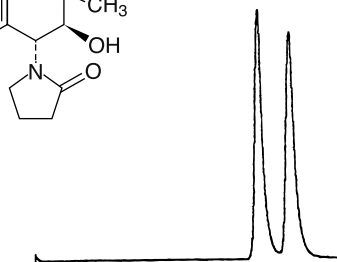
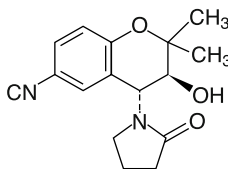
## Coumachlor

**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°C  
**Pressure:** 125 bar  
**Detection:** UV 254 nm  
**k'**: 2.38  
 **$\alpha$** : 1.30  
**Catalog #:** 1-784104-300



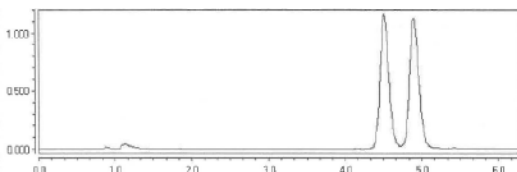
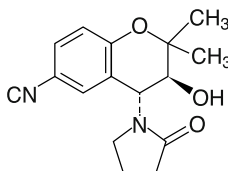
## Cromakalim

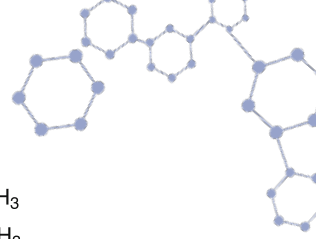
**Column:** (R,R) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (92/8)  
Hexane/Ethanol  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 21.0 min  
**k'**: 9.18  
 **$\alpha$** : 1.14  
**Reference:** 46  
**Catalog #:** 1-780101-300



## Cromakalim

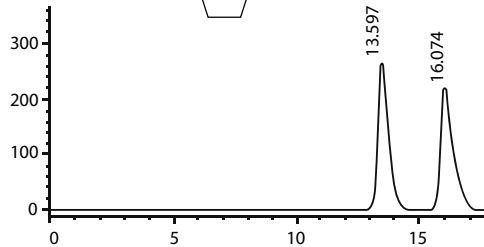
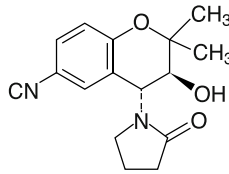
**Column:** (S,S) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (85/15)  
 $\text{CO}_2/\text{Ethanol}$   
**Flow Rate:** 4.0 mL/min  
**Temp:** 40°C  
**Pressure:** 125 bar  
**Detection:** UV 220 nm  
**k'**: 5.01  
 **$\alpha$** : 1.10  
**Catalog #:** 1-780101-300





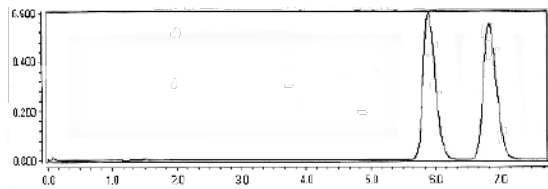
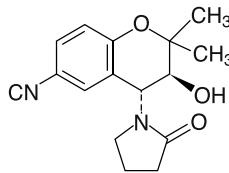
## Cromakalim

**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



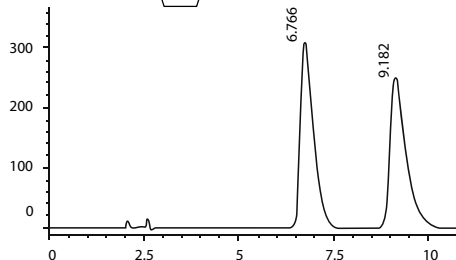
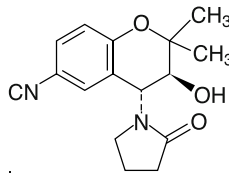
## Cromakalim

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** CO<sub>2</sub>/IPA (85/15)  
**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



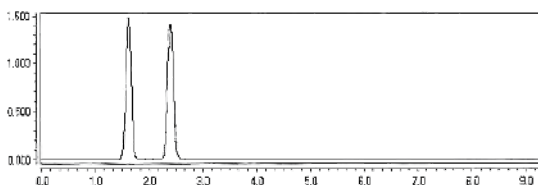
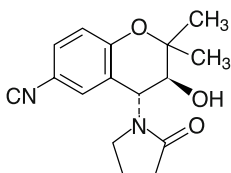
## Cromakalim

**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



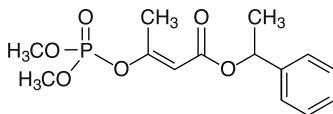
## Cromakalim

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



## Crotoxiphos

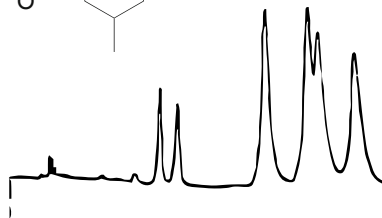
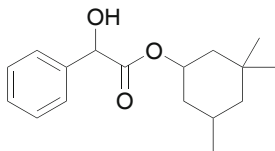
**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (70/30)  
Hexane/IPA  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 15 min  
**k':** 4.37  
 **$\alpha$ :** 1.93  
**Reference:** 43  
**Catalog #:** 1-780101-300

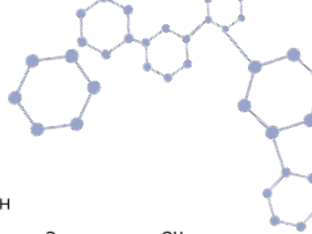


## Cyclandelate

*Mixture of Isomers*

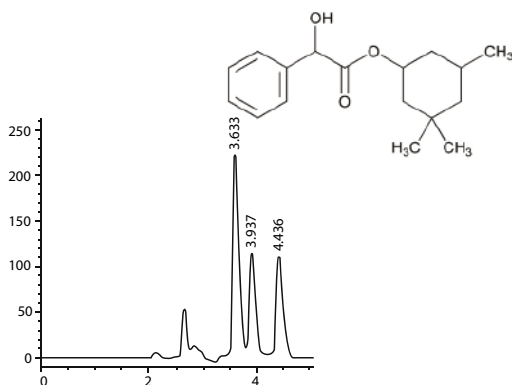
**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** 100%  
Hexane  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 35 min  
**Reference:** 18  
**Catalog #:** 1-780101-300





## 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



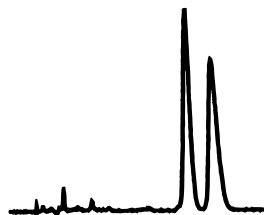
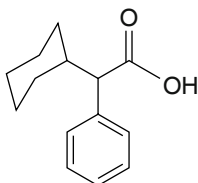
## Cyclandelate

**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'**: 0.44  
 **$\alpha$ :** 1.80  
**CAS #:** 456-59-7  
**Catalog #:** 1-784104-300



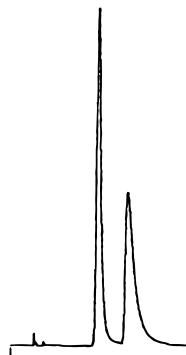
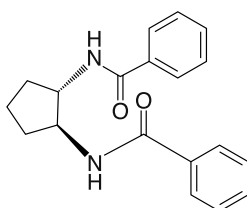
## 1-Cyclohexyl-1-phenylacetic Acid

**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:** 48  
**Catalog #:** 1-787100-300



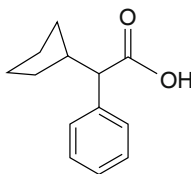
## Cyclopentyl Benzoyl-Diamide

**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  
**Reference:** 46  
**Catalog #:** 1-787100-300



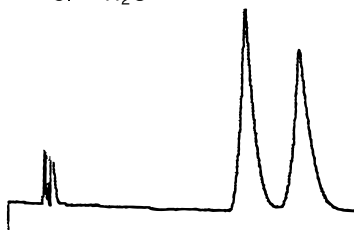
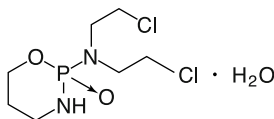
## 1-Cyclopentyl-1-phenylacetic Acid

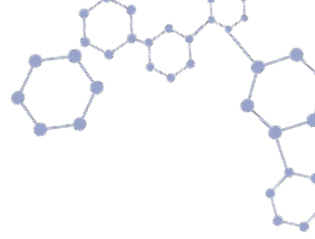
**Column:** (S,S) ULMO,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (99/1)  
Hexane/IPA + 0.1% TFA  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 12.0 min  
**k'**: 2.46  
 **$\alpha$ :** 1.19  
**Reference:** 48  
**Catalog #:** 1-787100-300



## Cyclophosphamide

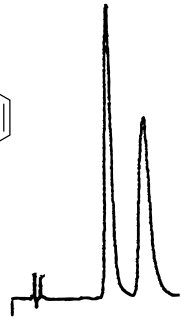
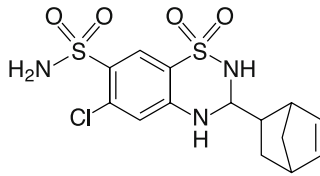
**Column:** (S,S) Whelk-O 1,  
10  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (95/5)  
Hexane/Ethanol  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 195 nm  
**Run Time:** 16.0 min  
**k'**: 6.31  
 **$\alpha$ :** 1.27  
**Reference:** 46  
**Catalog #:** 1-786515-300





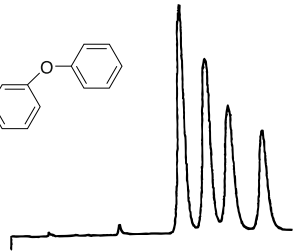
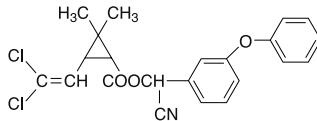
## Clothiazide

**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  
**Reference:** 46  
**Catalog #:** 1-787100-300



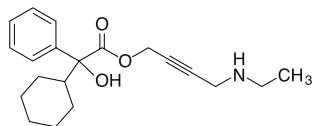
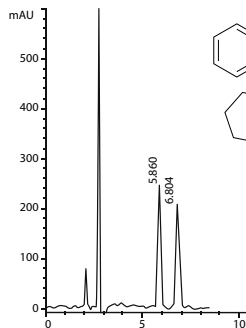
## cis:trans Cypermethrin

**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  
**Reference:** 46  
**Catalog #:** 1-731044-300



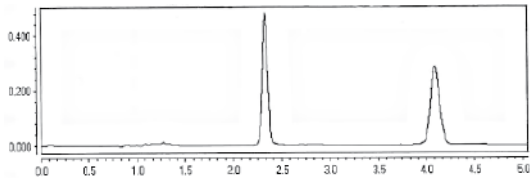
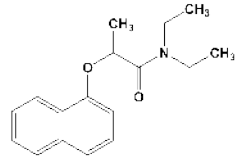
## Desethoxybutynin

**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



## Devrinol

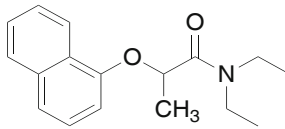
**Column:** (S,S) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (60/40)  
 $\text{CO}_2/\text{CH}_3\text{OH}$   
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40°C  
**Pressure:** 125 bar  
**Detection:** UV 254 nm  
**k':** 2.10  
 **$\alpha$ :** 2.12  
**Catalog #:** 1-780101-300



## Devrinol, Napropamide

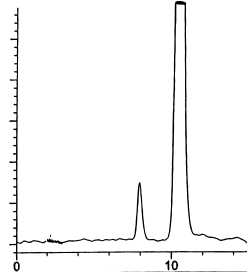
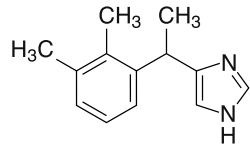
*Herbicide*

**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (50/50)  
IPA/Hexane  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 15 min  
**k':** 3.17  
 **$\alpha$ :** 3.00  
**Reference:** 43  
**Catalog #:** 1-780101-300; 1-780201-300



## 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  
**Reference:** 46  
**Catalog #:** 1-786447-300

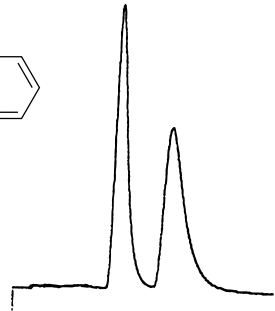
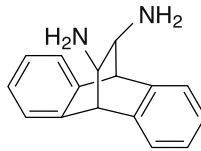






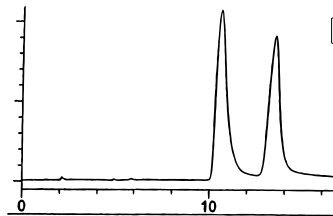
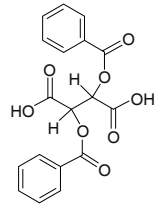
## trans-11,12-Diamino-9,10-dihydro-9,10-ethanoanthracene

**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  
**Reference:** 46  
**Catalog #:** 1-799001-300



## 2,3-Dibenzoyl-Tartaric Acid

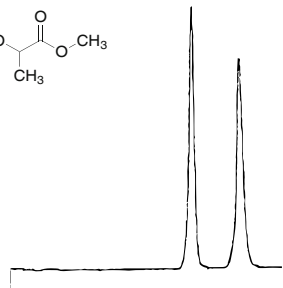
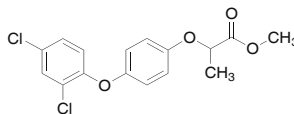
**Column:** (R,R) ULMO,  
10  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
Hexane/Ethanol +  
10 mM Ammonium Acetate  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**k'**: 4.87  
 **$\alpha$ :** 1.33  
**Reference:** 46  
**Catalog #:** 1-787400-300



## Diclofop Methyl

*Herbicide*

**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** Hexane  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 30 min  
**k'**: 14.19  
 **$\alpha$ :** 1.30  
**Reference:** 43  
**Catalog #:** 1-780101-300, 1-780201-300



## Diclofop Methyl

Herbicide

**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

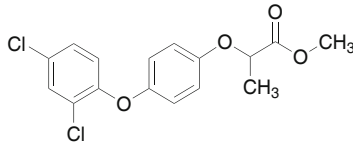
**Run Time:** 30 min

**k':** 4.29

**$\alpha$ :** 1.21

**Reference:** 43

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



## Dihydroquinazolinones

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

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

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

**Flow Rate:** 2.0 mL/min

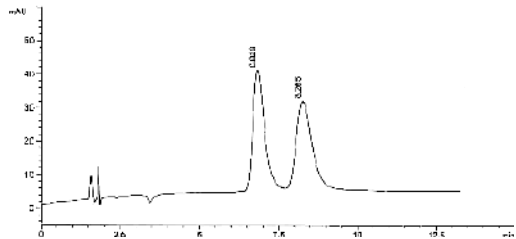
**Detection:** UV 220 nm

**k':** 3.71

**k'':** 4.70

**$\alpha$ :** 1.27

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



## Dihydroquinazolinones

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

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

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

**Flow Rate:** 1.5 mL/min

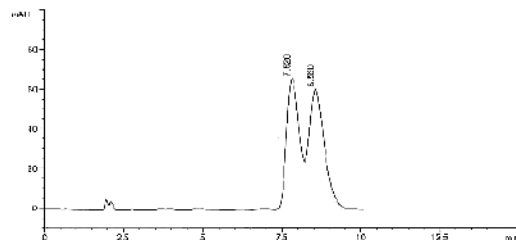
**Detection:** UV 220 nm

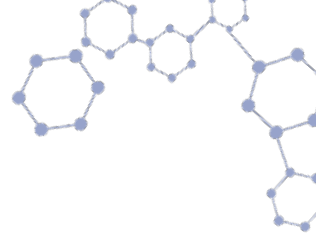
**k':** 3.12

**k'':** 3.51

**$\alpha$ :** 1.13

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

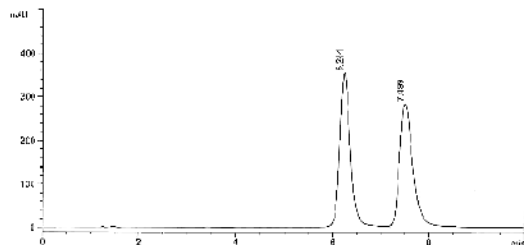




## Dihydroquinazolinones

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

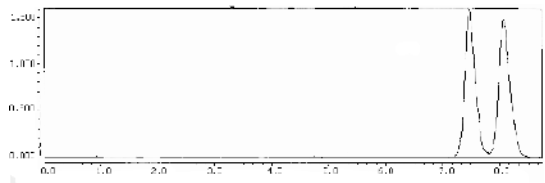
**Column:** (S,S) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (70/30)  
Hexane/Ethanol  
**Flow Rate:** 2.0 mL/min  
**Detection:** UV 220 nm  
**k'**<sub>1</sub>: 3.30  
**k'**<sub>2</sub>: 4.17  
 **$\alpha$** : 1.26  
**Catalog #:** 1-780101-300



## Dihydroquinazolinones

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

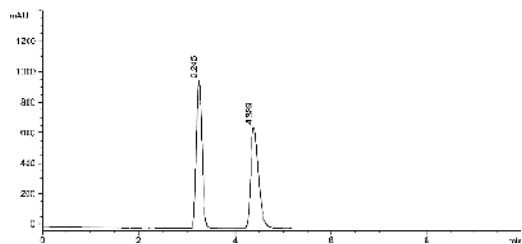
**Column:** Whelk-O 1, 5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (75/25)  
 $\text{CO}_2$ /Ethanol  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40°C  
**Pressure:** 125 bar  
**Detection:** UV 254 nm  
**k'**<sub>1</sub>: 8.97  
**k'**<sub>2</sub>: 9.76  
 **$\alpha$** : 1.09  
**Catalog #:** 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

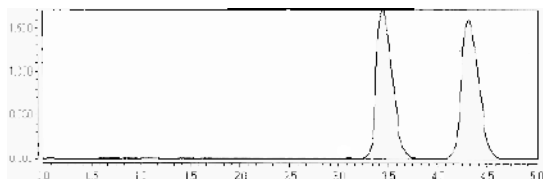
**Detection:** UV 254 nm

**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

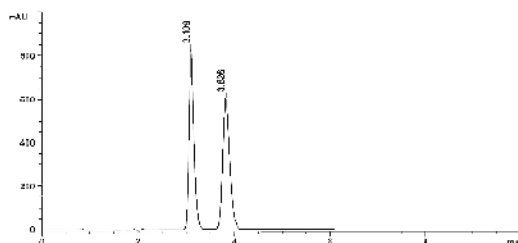
**Detection:** UV 220 nm

**k'**<sub>1</sub>: 0.64

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

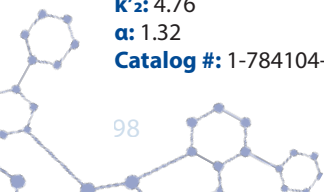
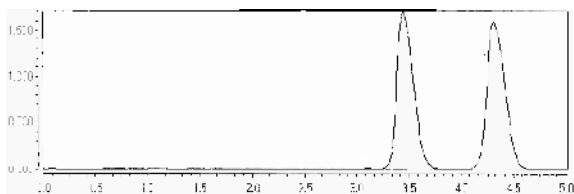
**Detection:** UV 254 nm

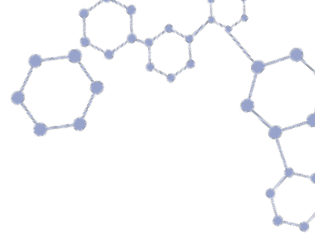
**k'**<sub>1</sub>: 3.60

**k'**<sub>2</sub>: 4.76

**$\alpha$** : 1.32

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

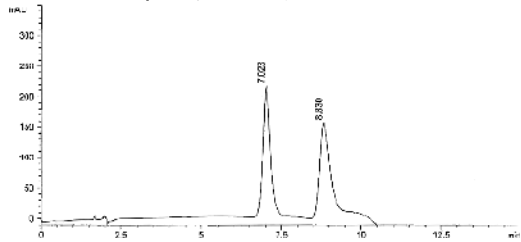




## Dihydroquinazolinones

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

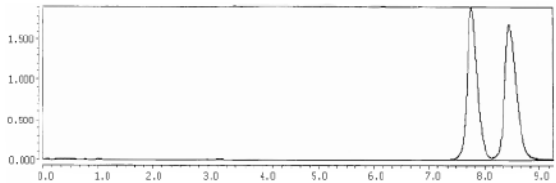
**Column:** (S,S) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (65/35)  
Hexane/Ethanol  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
**k'**: 2.70  
**k'**: 3.65  
 **$\alpha$ :** 1.35  
**Catalog #:** 1-780101-300



## Dihydroquinazolinones

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

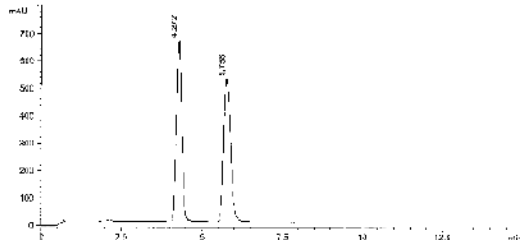
**Column:** Whelk-O 1, 5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (75/25) CO<sub>2</sub>/Ethanol  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40°C  
**Pressure:** 124 bar  
**Detection:** UV 254 nm  
**k'**: 9.36  
**k'**: 10.28  
 **$\alpha$ :** 1.10  
**Catalog #:** 1-780101-300



## 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'**: 1.25  
**k'**: 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  $\mu$ 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

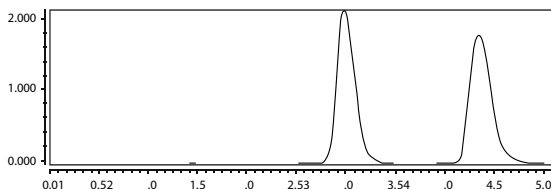
**Detection:** UV 254 nm

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

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

Hexane/Ethanol

**Flow Rate:** 1.5 mL/min

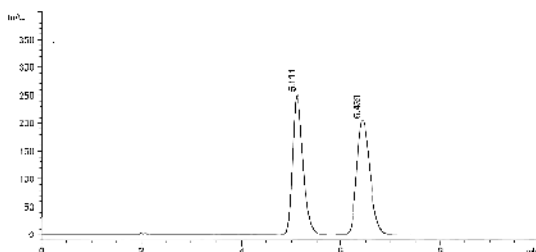
**Detection:** UV 220 nm

**k'**<sub>1</sub>: 1.69

**k'**<sub>2</sub>: 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  $\mu$ 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

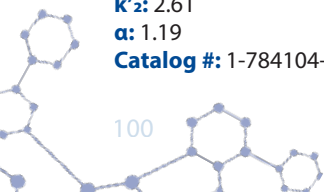
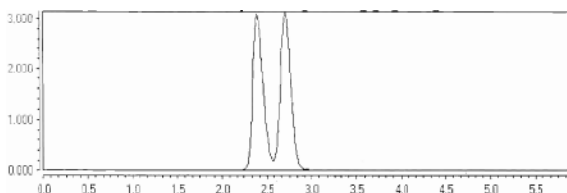
**Detection:** UV 254 nm

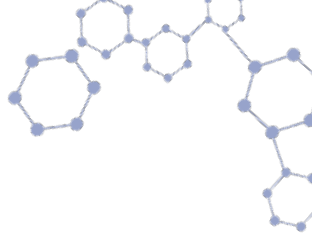
**k'**<sub>1</sub>: 2.19

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

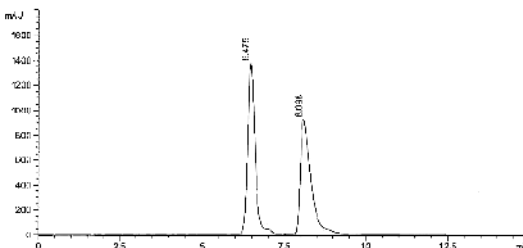
**Detection:** UV 220 nm

**k'**<sub>1</sub>: 2.41

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

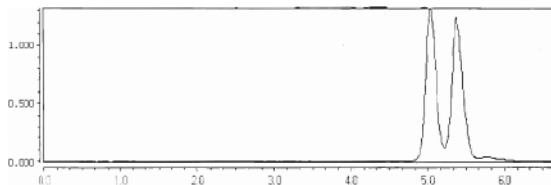
**Detection:** UV 254 nm

**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

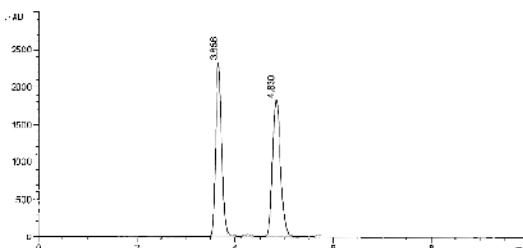
**Detection:** UV 220 nm

**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

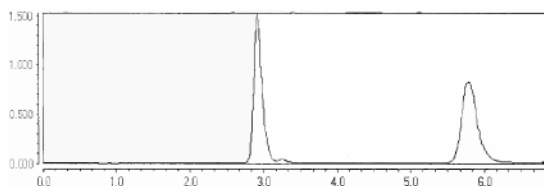
**Detection:** UV 254 nm

**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

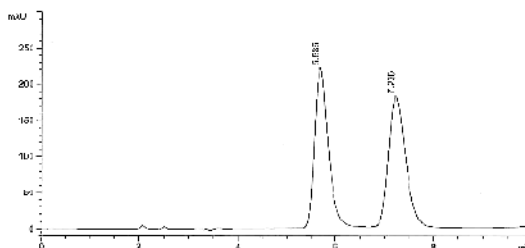
**Detection:** UV 220 nm

**k'**<sub>1</sub>: 1.99

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

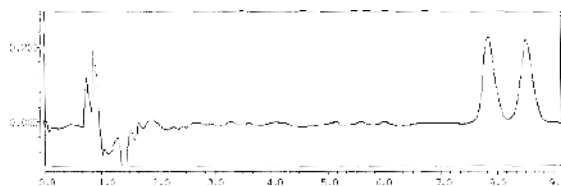
**Detection:** UV 220 nm

**k'**<sub>1</sub>: 9.47

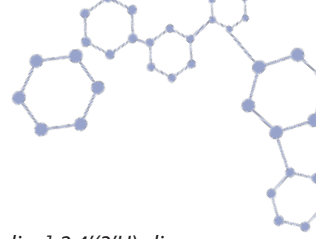
**k'**<sub>2</sub>: 10.36

**$\alpha$** : 1.09

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



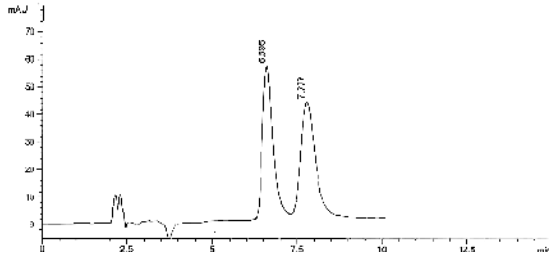




## Dihydroquinazolinones

*4,4,6-trimethyl-1'H,4H-spiro[pyrrolo[3,2,1-ij]quinoline-1,2'-quinazoline]-2,4'(3'H)-dione*

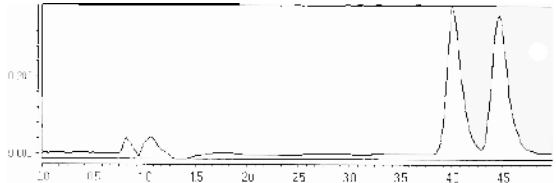
**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (80/20)  
Hexane/IPA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
**k'1:** 2.47  
**k'2:** 3.09  
 **$\alpha$ :** 1.25  
**Catalog #:** 1-783104-300



## Dihydroquinazolinones

*4,4,6-trimethyl-1'H,4H-spiro[pyrrolo[3,2,1-ij]quinoline-1,2'-quinazoline]-2,4'(3'H)-dione*

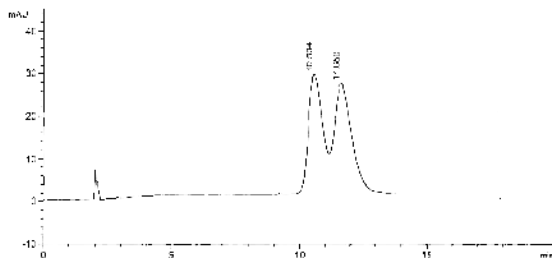
**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (80/20)  
 $\text{CO}_2/\text{CH}_3\text{OH} + 0.2\% \text{ DEA}$   
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40°C  
**Pressure:** 125 bar  
**Detection:** UV 220 nm  
**k'1:** 4.36  
**k'2:** 4.96  
 **$\alpha$ :** 1.14  
**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 µm, 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

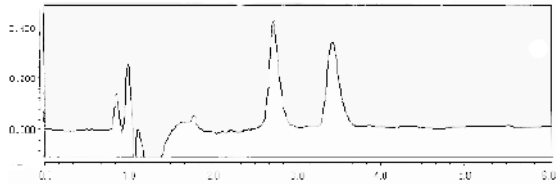
**Detection:** UV 220 nm

**k'<sub>1</sub>:** 2.64

**k'<sub>2</sub>:** 3.57

**α:** 1.35

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



## Dihydrotetrabenazine

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

10 µm, 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

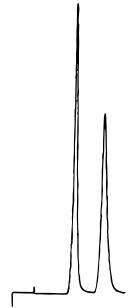
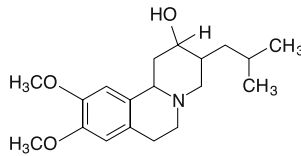
**Run Time:** 9.3 min

**k'<sub>1</sub>:** 2.50

**α:** 1.65

**Reference:** 46

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



## r-7,t-8-Dihydroxy-t-9, 10-epoxy-7,8,9,10-tetrahydrobenzo[a]pyrene

**Column:** (R,R) β-Gem 1,

5 µm, 25 cm x 4.6 mm

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

Hexane/EtOH

**Flow Rate:** 1.0 mL/min

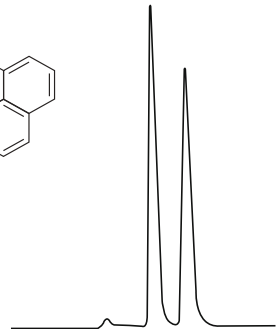
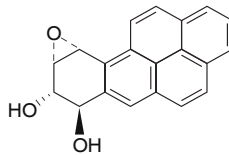
**Detection:** UV 254 nm

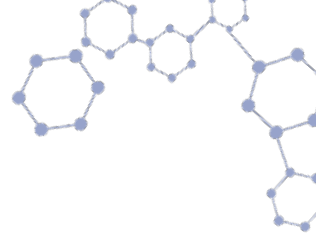
**Run Time:** 14 min

**k'<sub>1</sub>:** 3.18

**α:** 1.25

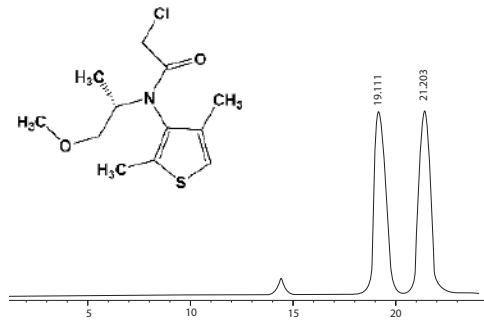
**Catalog #:** 1-731043-300





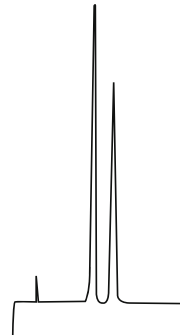
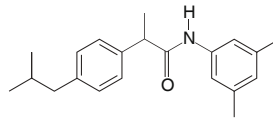
## Dimethenamid-P

**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

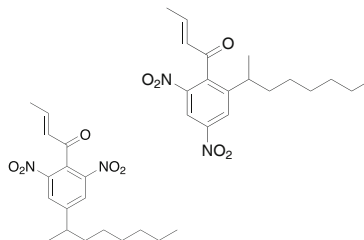
**Column:** (3R,4S) Pirkle 1-J,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (85/15)  
Hexane/IPA  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 13.0 bar  
**k'**: 2.91  
 **$\alpha$ :** 1.36  
**Reference:** 46  
**Catalog #:** 1-731044-300



## Dinocap

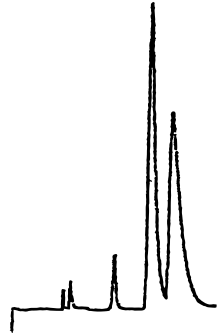
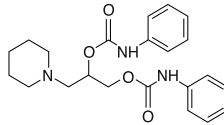
*Fungicide (mixture of isomers)*

**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  
**Reference:** 43  
**Catalog #:** 1-780101-300, 1-780201-300



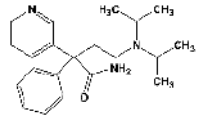
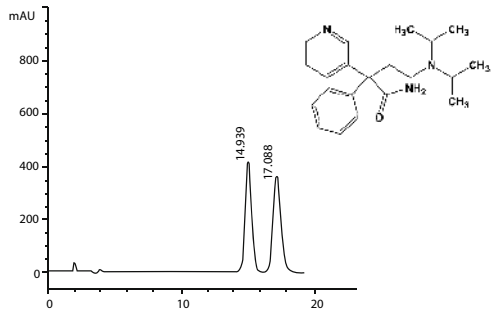
## Diperodon

**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  
+ 1.5 mM Ammonium Acetate  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 9.0 min  
**k'**: 1.7  
 **$\alpha$ :** 1.25  
**Reference:** 46  
**Catalog #:** 1-735035-300



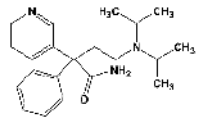
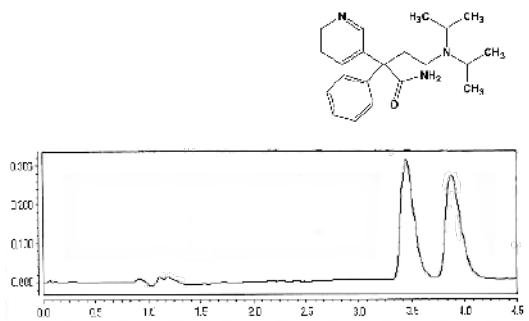
## Disopyramide

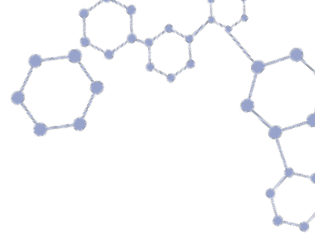
**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (97/3)  
Hexane/IPA + 0.1% DEA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**k'**: 6.86  
 **$\alpha$ :** 1.17  
**CAS #:** 3737-09-5  
**Catalog #:** 1-783104-300



## Disopyramide

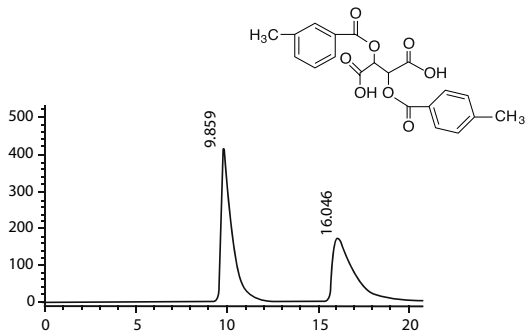
**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (80/20)  
CO<sub>2</sub>/IPA + 0.5% DEA  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40°C  
**Pressure:** 125 bar  
**Detection:** UV 254 nm  
**k'**: 3.59  
 **$\alpha$ :** 1.16  
**Catalog #:** 1-783104-300





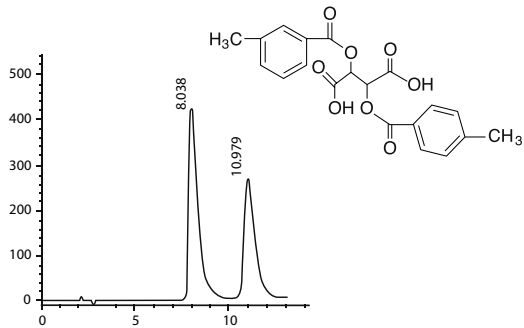
## Ditoluoyltartaric Acid

**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



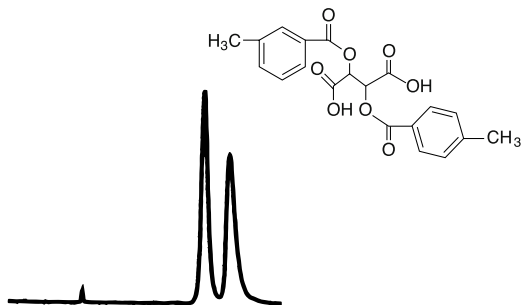
## Ditoluoyltartaric Acid

**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



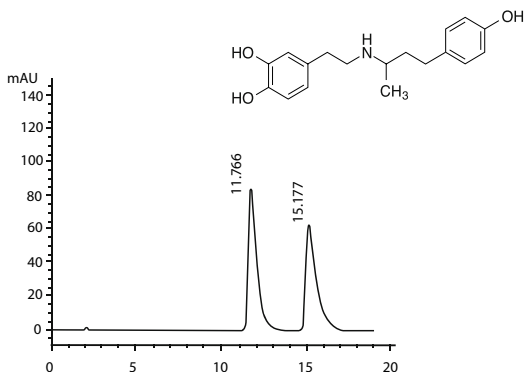
## Ditoluoyltartaric Acid

**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



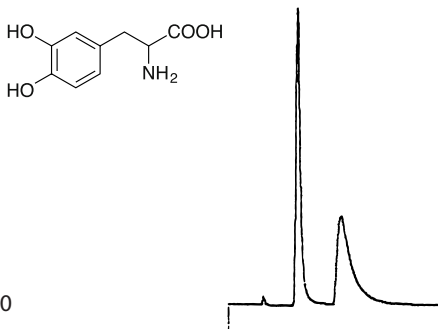
## Dobutamine

**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



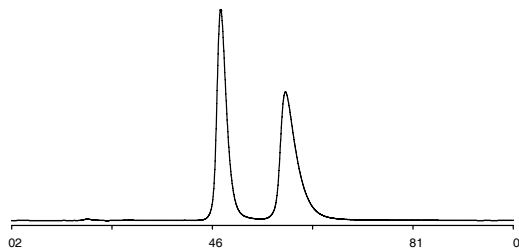
## DOPA

**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:** 5.5 min  
**k':** 0.97  
 **$\alpha$ :** 2.30  
**Catalog #:** 1-799001-300, 1-799101-300



## DL-DOPA

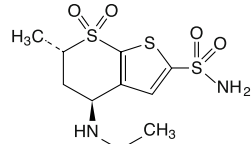
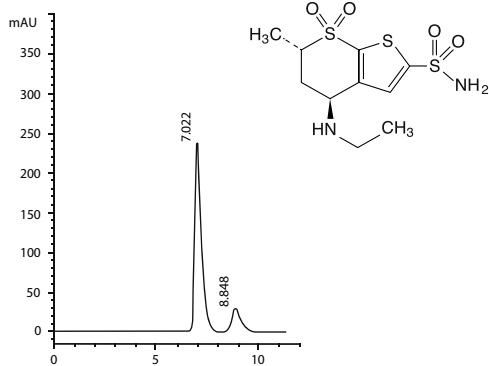
**Column:** ChiroSil ME RCA(+),  
5  $\mu\text{m}$ , 15 cm x 4.6 mm  
**Mobile Phase:** (30/70)  
0.01% Phosphoric Acid / MeOH  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 210 nm  
**Temperature:** 20°C  
**k':** 1.20  
 **$\alpha$ :** 1.57  
**Catalog #:** 1-788001-300





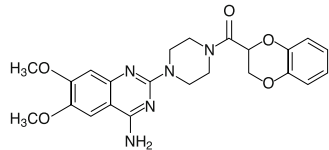
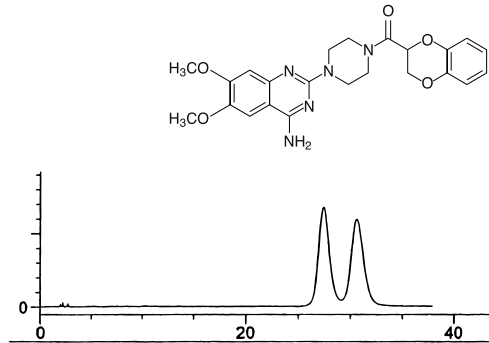
## Enriched Dorzolamide

**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 254nm  
**k'**: 2.70  
 **$\alpha$ :** 1.35  
**CAS #:** 120279-96-1  
**Catalog #:** 1-784104-300



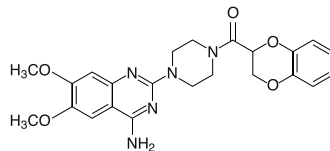
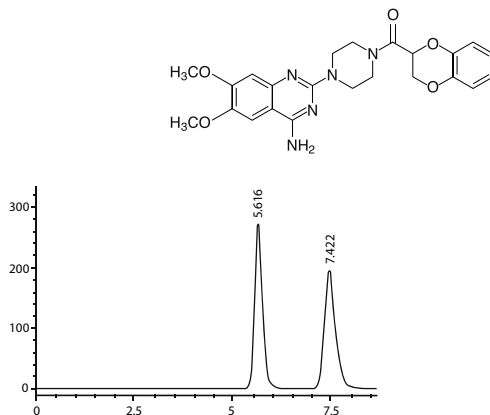
## Doxazosin

**Column:** (S,S) Whelk-O 1,  
10  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (66/29/5)  
Hexane/CH<sub>2</sub>Cl<sub>2</sub>/Ethanol  
+ 5 mM Ammonium Acetate  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**k'**: 14.2  
 **$\alpha$ :** 1.13  
**Reference:** 46  
**Catalog #:** 1-786615-300



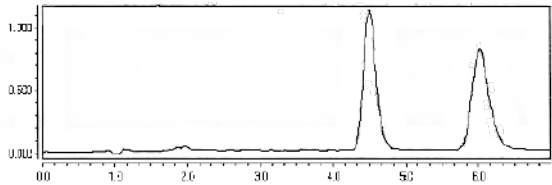
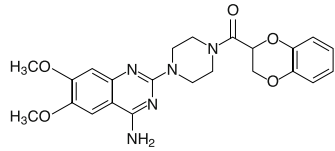
## Doxazosin

**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 254nm  
**k'**: 1.96  
 **$\alpha$ :** 1.49  
**CAS #:** 77883-43-3  
**Catalog #:** 1-783104-300



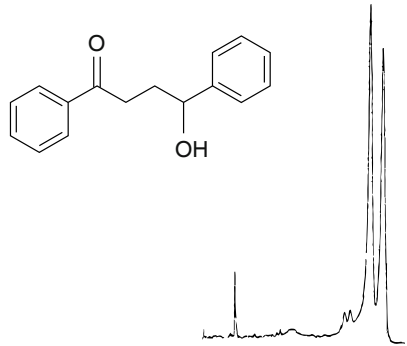
## Doxazosin

**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°C  
**Pressure:** 125 bar  
**Detection:** UV 254 nm  
**k'**: 5.00  
 **$\alpha$** : 1.41  
**Catalog #:** 1-783104-300



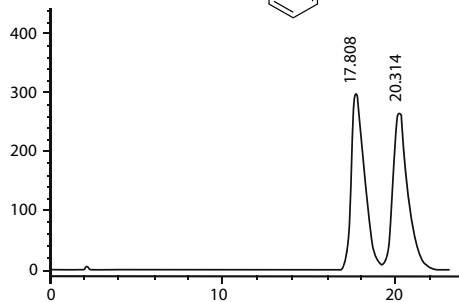
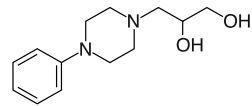
## DPHB

**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:** 29  
**Catalog #:** 1-780101-300,  
1-780201-300

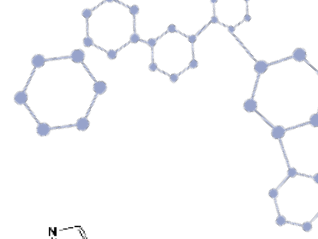


## Dropropizine

**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
Hexane/Ethanol  
+ 0.1% DEA + 0.1%TFA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254nm  
**k'**: 8.37  
 **$\alpha$** : 1.16  
**CAS #:** 17692-31-8  
**Catalog #:** 1-784104-300

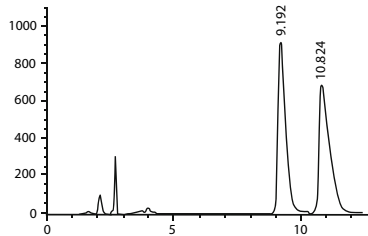
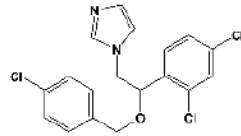






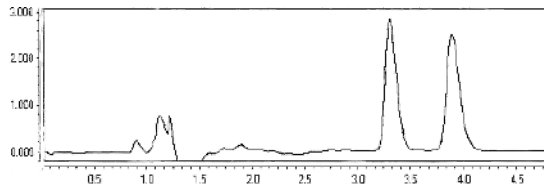
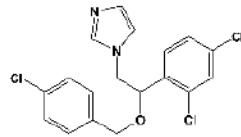
## Econazole

**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



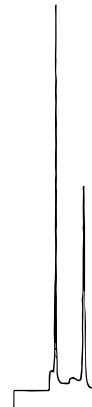
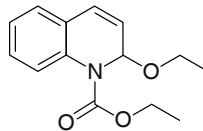
## Econazole

**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°C  
**Pressure:** 125 bar  
**Detection:** UV 220 nm  
**k'**: 3.42  
 **$\alpha$ :** 1.23  
**Catalog #:** 1-783104-300



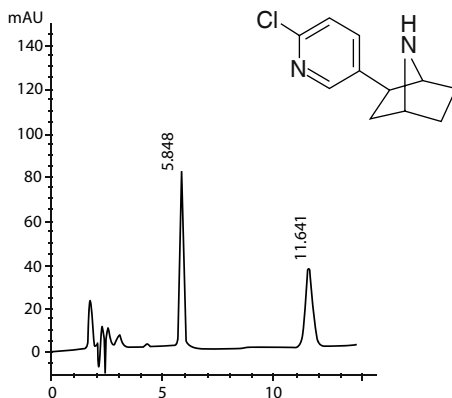
## EEDQ

**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  
**Reference:** 18  
**Catalog #:** 1-780101-300, 1-780201-300



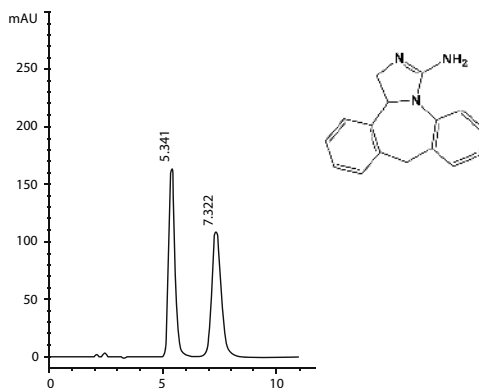
## Epibatidine

**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



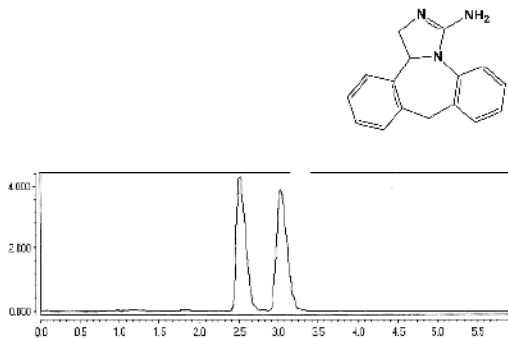
## Epinastine

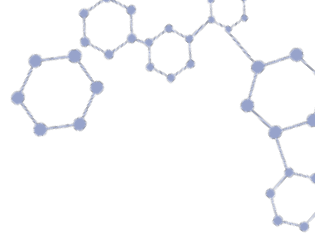
**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (85/15)  
Hexane/IPA + 0.1% DEA  
+ 0.1% TFA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**k'**: 1.81  
 **$\alpha$ :** 2.85  
**CAS #:** 80012-43-7  
**Catalog #:** 1-784104-300



## Epinastine

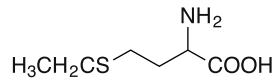
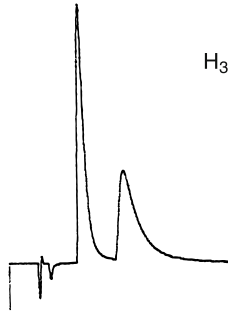
**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (80/20)  
CO<sub>2</sub>/CH<sub>3</sub>OH + 0.5% DEA  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40°C  
**Pressure:** 125 bar  
**Detection:** UV 220 nm  
**k'**: 2.37  
 **$\alpha$ :** 1.29  
**Catalog #:** 1-784104-300





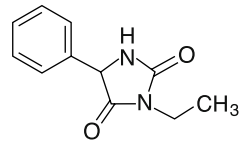
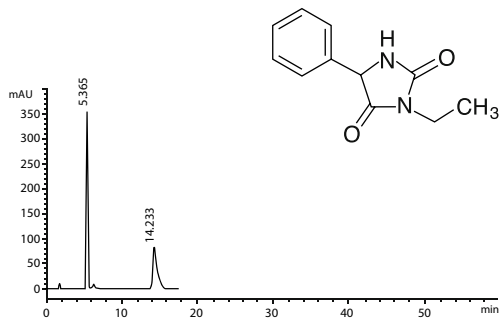
## Ethionine

**Column:** ChiroSil,  
5  $\mu\text{m}$ , 15 cm x 4.6 mm  
**Mobile Phase:** (75/25)  
CH<sub>3</sub>OH/H<sub>2</sub>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



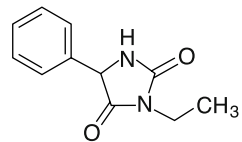
## Ethotoin

**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



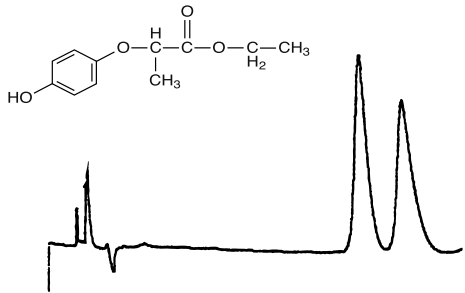
## Ethotoin

**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  
**Reference:** 46  
**Catalog #:** 1-780101-300



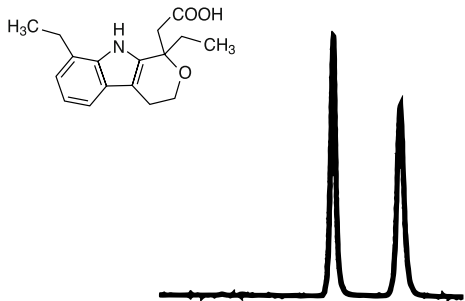
## Ethyl-2-(p-Hydroxyphenoxy) Propionate

**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  
**Reference:** 46  
**Catalog #:** 1-786615-300



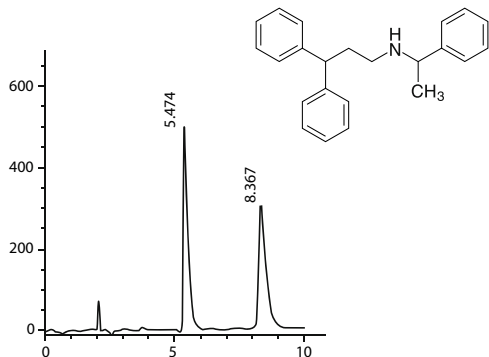
## Etodolac

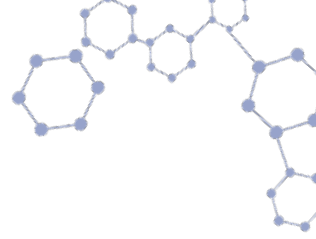
**Column:** (S,S) ULMO,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (98/2)  
Hexane/IPA + 0.1% TFA  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 14.5 min  
**k':** 2.43  
 **$\alpha$ :** 1.50  
**Reference:** 48  
**Catalog #:** 1-787100-300



## 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





## 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

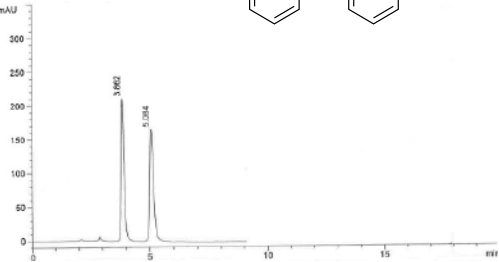
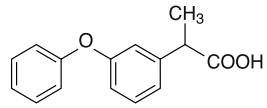
**Flow Rate:** 1.5 mL/min

**Detection:** UV 254 nm

**k'**: 1.00

**$\alpha$** : 1.63

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



## Fenoprofen

**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

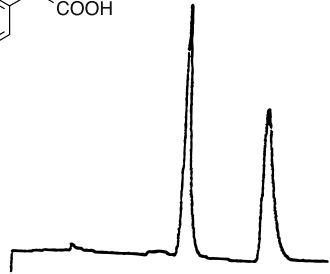
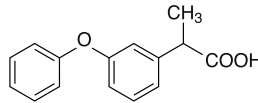
**Run Time:** 14.5 min

**k'**: 2.62

**$\alpha$** : 1.66

**Reference:** 46

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



## Fenoprofen

**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

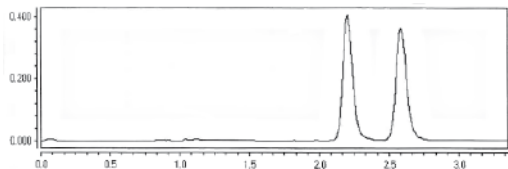
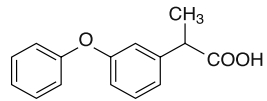
**Pressure:** 125 bar

**Detection:** UV 254 nm

**k'**: 1.94

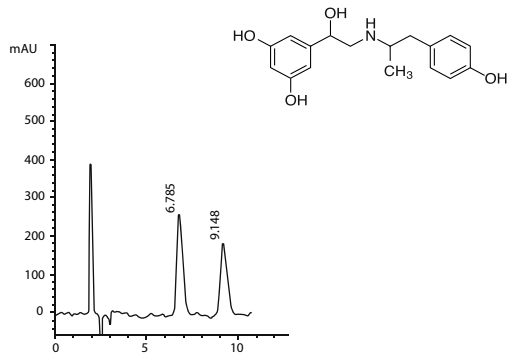
**$\alpha$** : 1.26

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



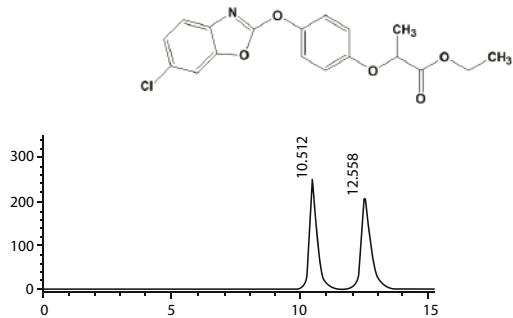
## Fenoterol

**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':** 2.57  
 **$\alpha$ :** 1.48  
**CAS #:** 13392-18-2  
**Catalog #:** 1-783104-300



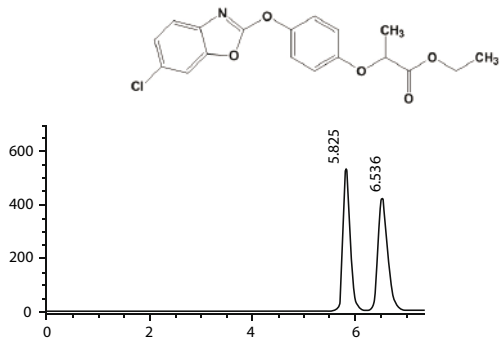
## Fenoxprop-ethyl

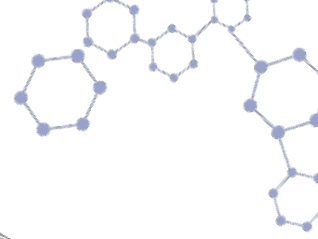
**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
Hexane/IPA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**k':** 4.45  
 **$\alpha$ :** 1.24  
**CAS #:** 66441-23-4  
**Catalog #:** 1-780101-300,  
1-780201-300



## Fenoxprop-ethyl

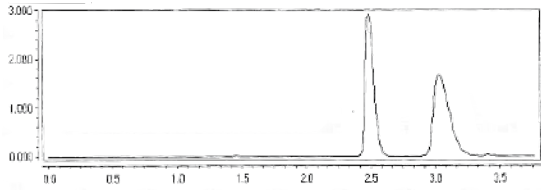
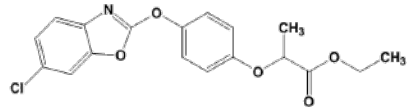
**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (95/5)  
Hexane/IPA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**k':** 2.07  
 **$\alpha$ :** 1.18  
**CAS #:** 66441-23-4  
**Catalog #:** 1-783104-300





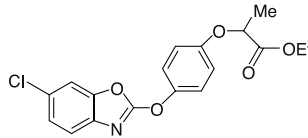
## Fenoxprop-ethyl

**Column:** RegisPack,  
5  $\mu$ 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:** 126 bar  
**Detection:** UV 254 nm  
**k'**: 2.31  
 **$\alpha$** : 1.32  
**Catalog #:** 1-783104-300



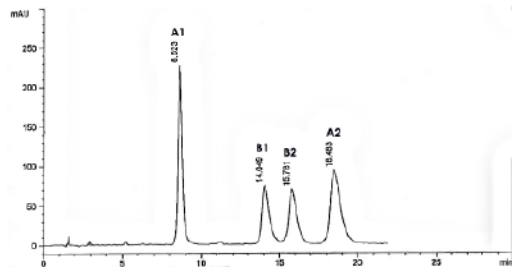
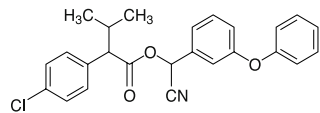
## Fenoxprop-ethyl

**Column:** (R,R) DACH-DNB,  
5  $\mu$ 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:** 18.0 min  
**k'**: 4.70  
 **$\alpha$** : 1.15  
**Reference:** 59  
**Catalog #:** 1-788101-300



## Fenvalerate

**Column:** (R,R) Whelk-O 1,  
5  $\mu$ m, 25 cm x 4.6 mm  
**Mobile Phase:** (92/8)  
Hexane/IPA  
**Flow Rate:** 2.0 mL/min  
**Detection:** UV 220 nm  
**k'**<sub>A1</sub>: 4.94  
 **$\alpha$** <sub>A1, A2</sub>: 4.10  
**k'**<sub>B1</sub>: 8.69  
 **$\alpha$** <sub>B1, B2</sub>: 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

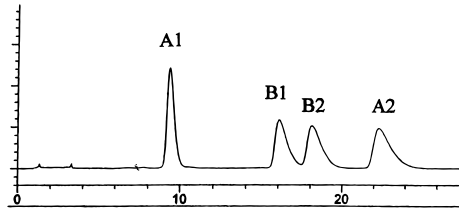
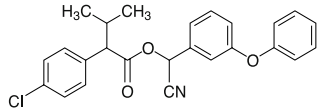
$\alpha_{(A1,A2)}$ : 2.54

$k'_{B1}$ : 16.79

$\alpha_{(B1,B2)}$ : 1.14

**Reference:** 46

**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

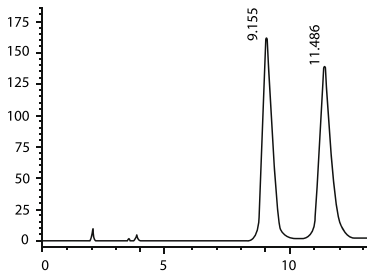
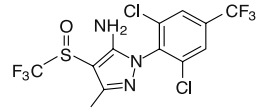
$k'_1$ : 3.74

$\alpha$ : 1.32

**CAS #:** 1200068-37-3

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

1-780201-300



## Flavanone

**Column:** Whelk-O 1,

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

**Mobile Phase:** (90/1)

Hexane/IPA

**Flow Rate:** 1.0 mL/min

**Detection:** UV 254 nm

**Run Time:** 25 min

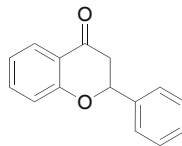
$k'_1$ : 7.08

$\alpha$ : 1.04

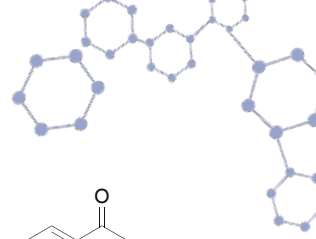
**Reference:** 26

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

1-780201-300

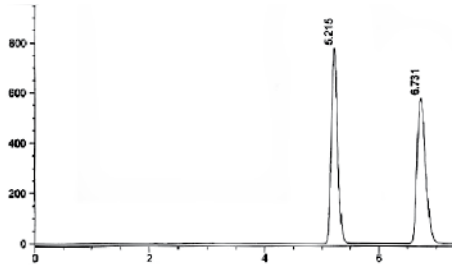
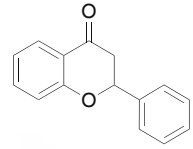






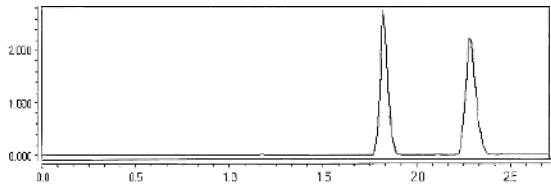
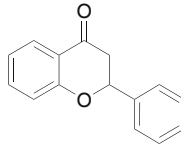
## Flavanone

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
Hexane/Ethanol  
**Flow Rate:** 1.5 mL/min  
**Pressure:** 125 bar  
**Detection:** UV 254 nm  
 **$k'$ :** 1.74  
 **$\alpha$ :** 1.46  
**Catalog #:** 1-783104-300



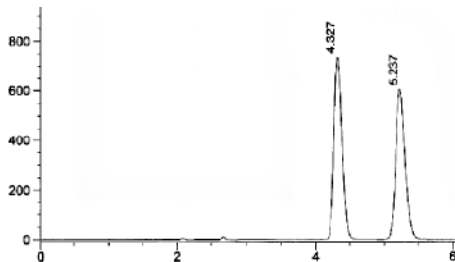
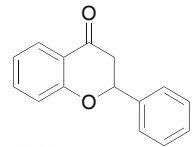
## Flavanone

**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°C  
**Pressure:** 124 bar  
**Detection:** UV 254 nm  
 **$k'$ :** 1.43  
 **$\alpha$ :** 1.43  
**Catalog #:** 1-783104-300



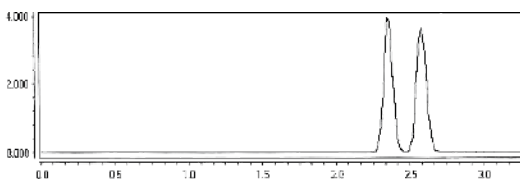
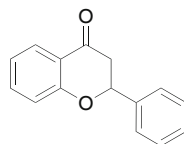
## Flavanone

**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  
 **$k'$ :** 1.28  
 **$\alpha$ :** 1.37  
**Catalog #:** 1-784104-300



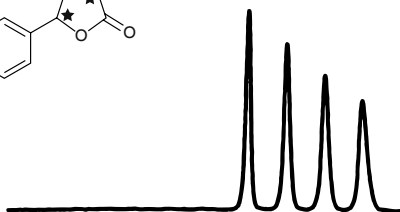
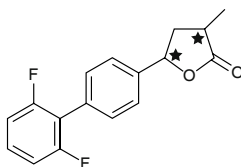
## Flavanone

**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
 $\text{CO}_2/\text{CH}_3\text{OH}$   
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40°C  
**Pressure:** 124 bar  
**Detection:** UV 254 nm  
 **$k'$ :** 2.13  
 **$\alpha$ :** 1.14  
**Catalog #:** 1-784104-300



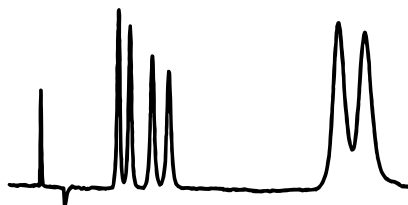
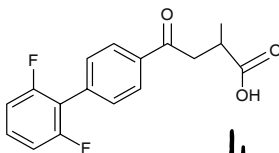
## Flobufen and Flobufen Metabolites

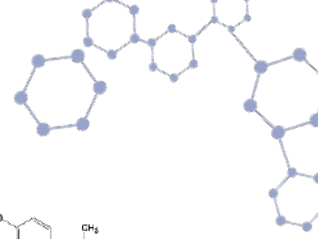
**Column:** (S,S) ULMO,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
Heptane/IPA + 0.1% TFA  
**Flow Rate:** 2.0 mL/min  
**Detection:** UV 230 nm  
**Run Time:** 24.0 min  
**Reference:** 47  
**Catalog #:** 1-787100-300



## Flobufen Metabolites

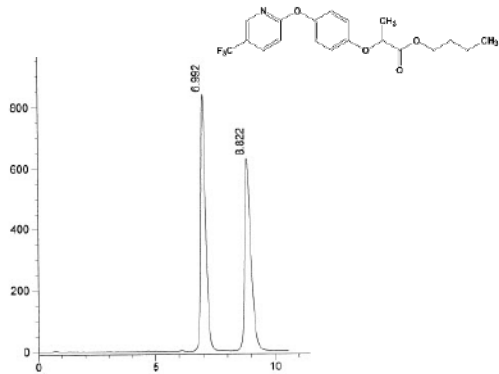
**Column:** (S,S) ULMO,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (97/3)  
Heptane/Glyme + 0.1% TFA  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 215 nm  
**Run Time:** 21.0 min  
**Reference:** 47  
**Catalog #:** 1-787100-300





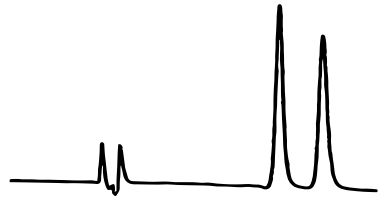
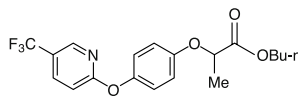
## Fluazifop-butyl

**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



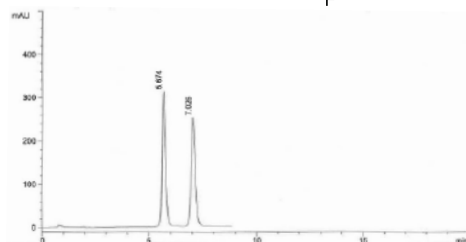
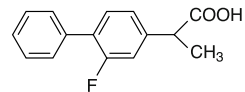
## Fluazifop-butyl

**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



## 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

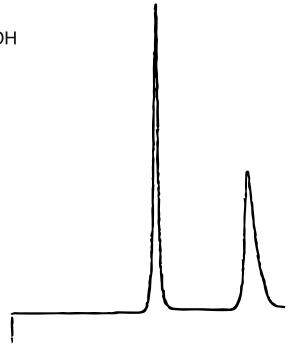
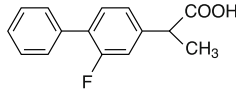
**Run Time:** 20.5 min

**k'**: 5.90

**$\alpha$ :** 1.76

**Reference:** 46

**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

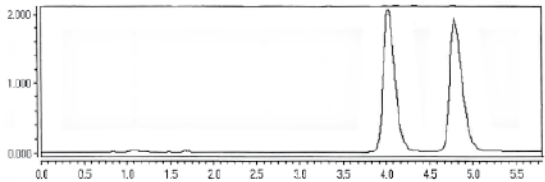
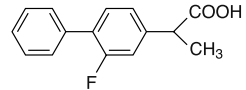
**Pressure:** 125 bar

**Detection:** UV 254 nm

**k'**: 4.36

**$\alpha$ :** 1.23

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



## Flurbiprofen

**Column:** 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

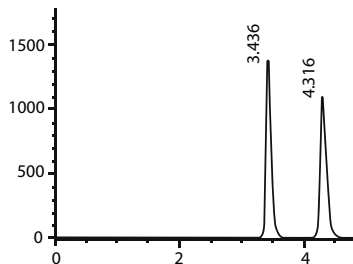
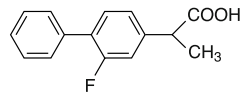
**Detection:** UV 254 nm

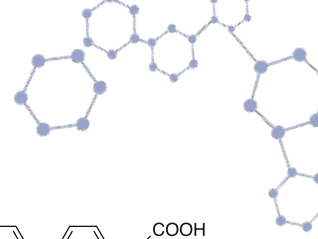
**k'**: 0.81

**$\alpha$ :** 1.57

**CAS #:** 5104-49-4

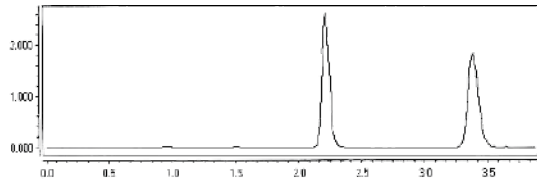
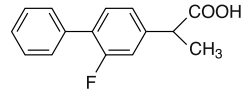
**Catalog #:** 1-783104-300





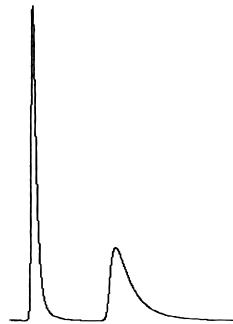
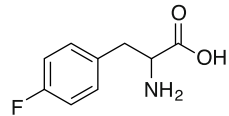
## Flurbiprofen

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (85/15)  
 $\text{CO}_2/\text{CH}_3\text{OH}$  + 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



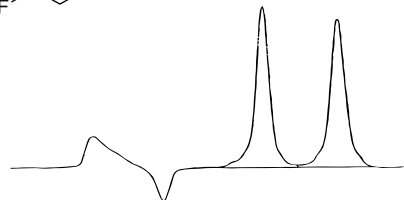
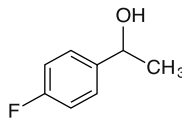
## 4-Fluorophenylalanine

**Column:** ChiroSil,  
5  $\mu\text{m}$ , 15 cm x 4.6 mm  
**Mobile Phase:** (70/30)  
 $\text{CH}_3\text{OH}/\text{H}_2\text{O}$  + 10  
mM Acetic acid  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 210 nm  
**Run Time:** 9.6 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)  
 $\text{H}_2\text{O}/\text{CH}_3\text{OH}$

**Flow Rate:** 1.5 mL/min

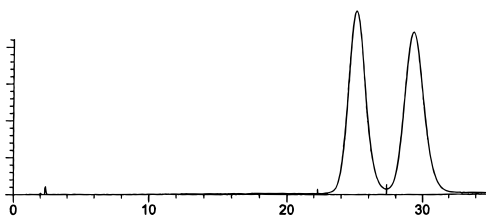
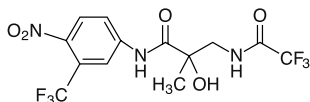
**Detection:** UV 254 nm

**$k'$ :** 12.9

**$\alpha$ :** 1.18

**Reference:** 46

**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

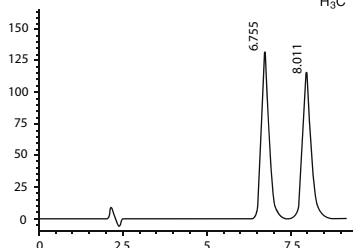
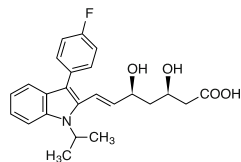
**Detection:** UV 254 nm

**$k'$ :** 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

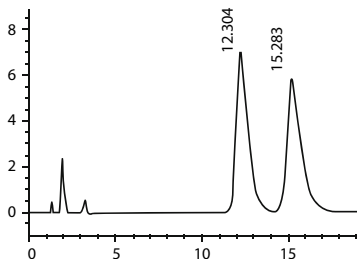
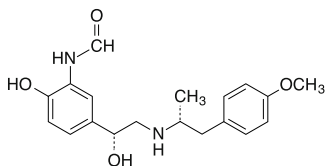
**Detection:** UV 254 nm

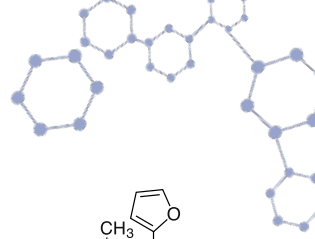
**$k'$ :** 5.38

**$\alpha$ :** 1.29

**CAS #:** 73573-87-2

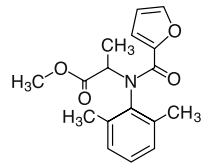
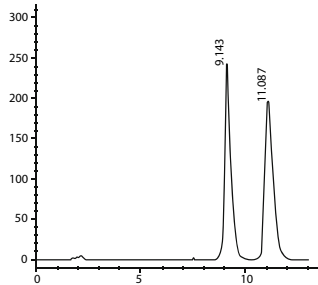
**Catalog #:** 1-780101-300,  
1-780201-300





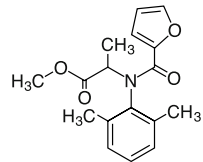
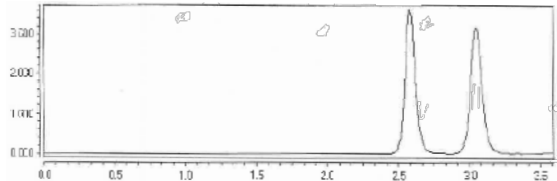
## Furalaxyl

**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



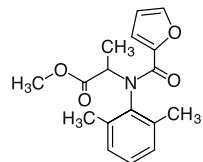
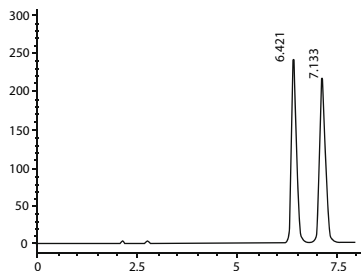
## Furalaxyl

**Column:** (S,S) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (70/30)  
 $\text{CO}_2$ /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



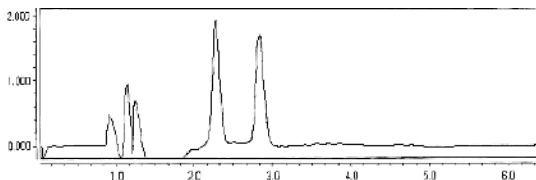
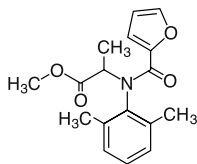
## Furalaxyl

**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



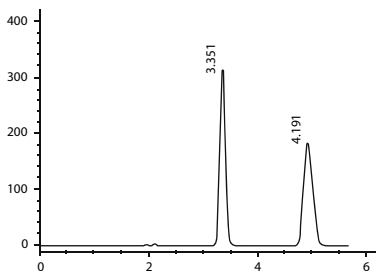
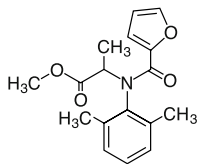
## Furalaxyl

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (85/15)  
 $\text{CO}_2/\text{IPA} + 0.5\% \text{ DEA}$   
**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



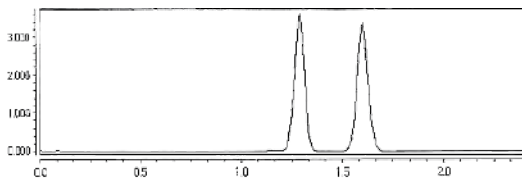
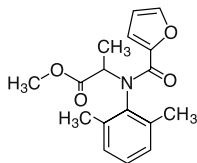
## Furalaxyl

**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

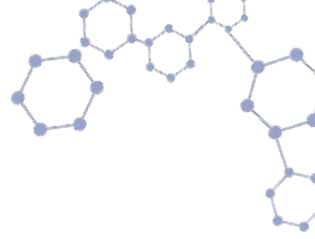


## Furalaxyl

**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (80/20)  
 $\text{CO}_2/\text{Ethanol}$   
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40°C  
**Pressure:** 125 bar  
**Detection:** UV 220 nm  
**k'**: 0.72  
 **$\alpha$ :** 1.58  
**Catalog #:** 1-784104-300

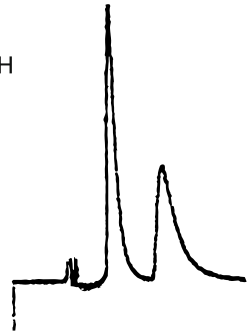
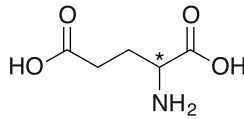






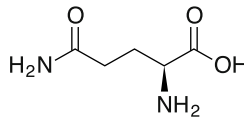
## Glutamic Acid

**Column:** ChiroSil,  
5  $\mu\text{m}$ , 15 cm x 4.6 mm  
**Mobile Phase:** (65/35)  
CH<sub>3</sub>OH/H<sub>2</sub>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 #:** 1-799001300,  
1-799101-300



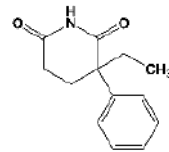
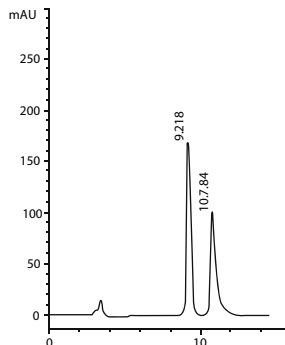
## Glutamine

**Column:** ChiroSil SCA(-),  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (65/35)  
CH<sub>3</sub>CN/H<sub>2</sub>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  
**Reference:** 46  
**Catalog #:** 1-799101-300



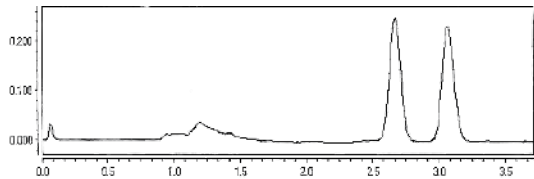
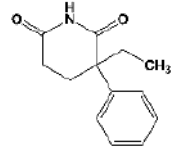
## Glutethimide

**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 220nm  
**k'**: 2.18  
 **$\alpha$** : 1.24  
**CAS #:** 77-21-4  
**Catalog #:** 1-784104-300



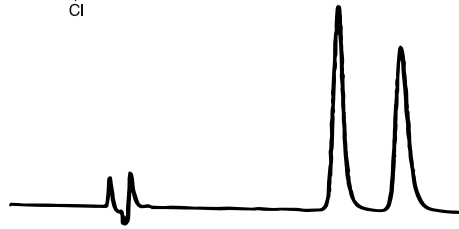
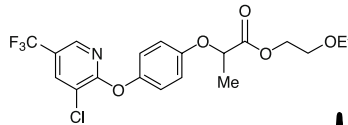
## Glutethimide

**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
CO<sub>2</sub>/Ethanol  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40°C  
**Pressure:** 125 bar  
**Detection:** UV 220 nm  
**k'**: 2.57  
 **$\alpha$** : 1.20  
**Catalog #:** 1-784104-300



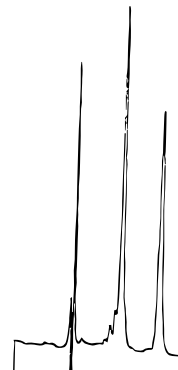
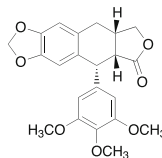
## Haloxyfop-ethoxyethyl

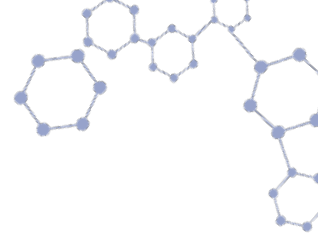
**Column:** (S,S) DACH-DNB,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (95/5)  
Hexane/IPA  
**Temperature:** 20°C  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 13.0 min  
**k'**: 3.13  
 **$\alpha$** : 1.25  
**Reference:** 59  
**Catalog #:** 1-788201-300



## Hanessian's Lignan

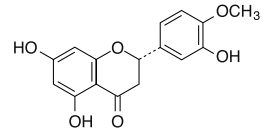
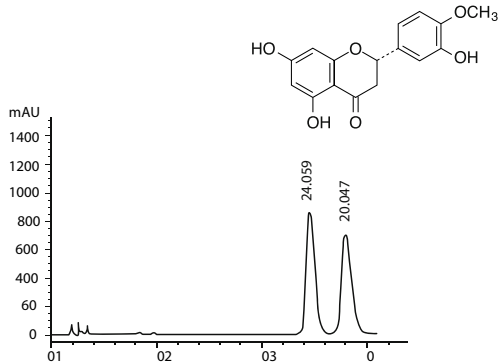
**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** Methanol  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 8 min  
**k'**: 0.94  
 **$\alpha$** : 1.69  
**Reference:** 7  
**Catalog #:** 1-780101-300,  
1-780201-300





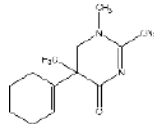
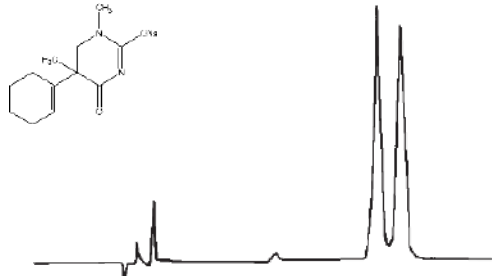
## Hesperitin

**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  
 **$k'$ :** 11.98  
 **$\alpha$ :** 1.15  
**CAS #:** 520-33-2  
**Catalog #:** 1-783104-300



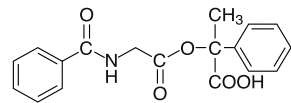
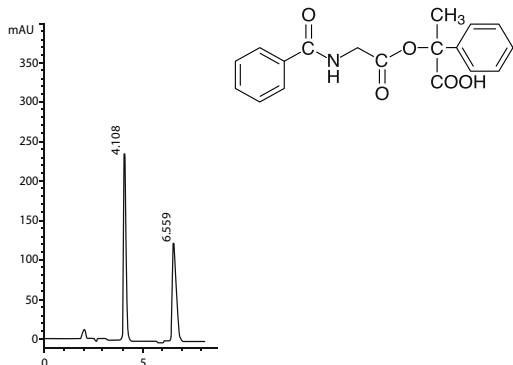
## Hexobarbital

**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  
 **$k'$ :** 2.89  
 **$\alpha$ :** 1.10  
**Run Time:** 16 min  
**Catalog #:** 1-731041-300



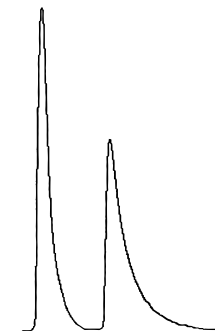
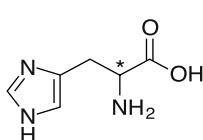
## Hippuryl-phenyllactic acid

**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



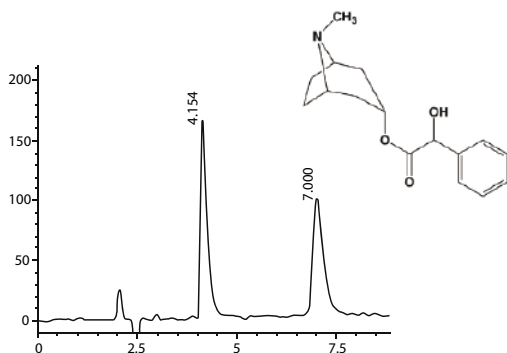
## Histidine

**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



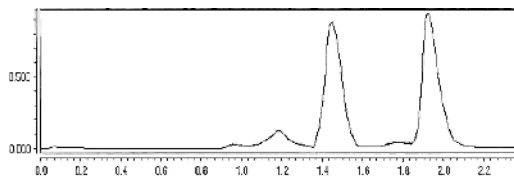
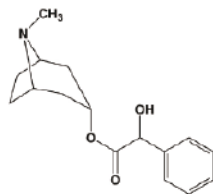
## Homatropine

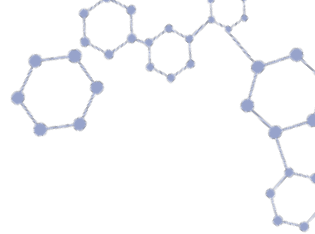
**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (85/15)  
Hexane/Ethanol  
+ 0.1% DEA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
**k'**: 1.19  
 **$\alpha$ :** 2.26  
**CAS #:** 87-00-3  
**Catalog #:** 1-784104-300



## 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

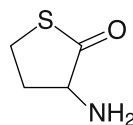
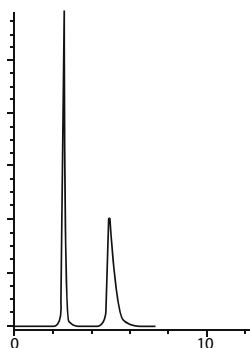
**Flow Rate:** 1.0 mL/min

**Detection:** UV 240nm

**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

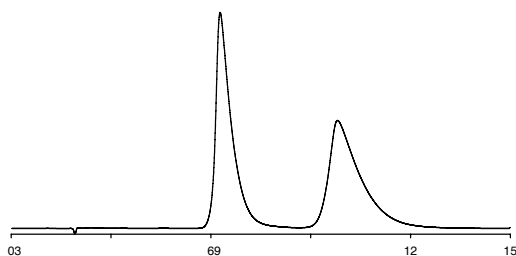
**Detection:** UV 210 nm

**Temperature:** 20°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

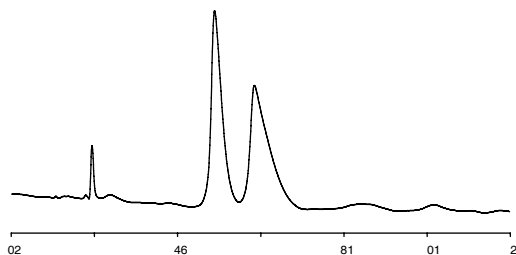
**Detection:** UV 210 nm

**Temperature:** 20°C

**k'**: 1.51

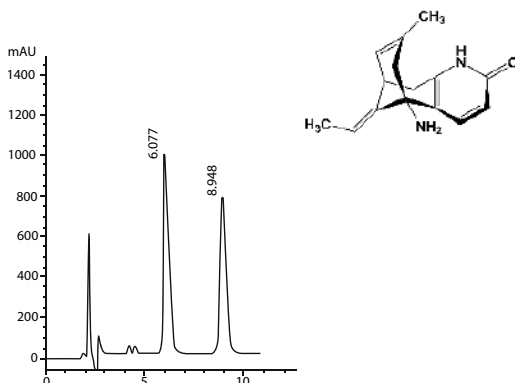
**$\alpha$** : 1.32

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



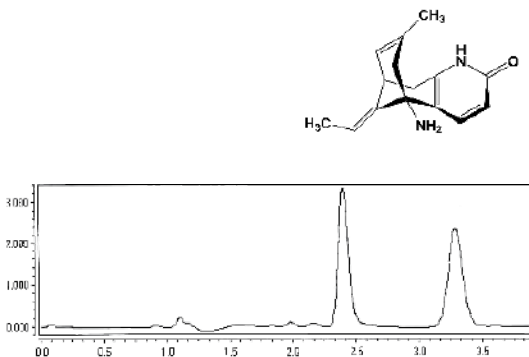
## Huperzine

**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



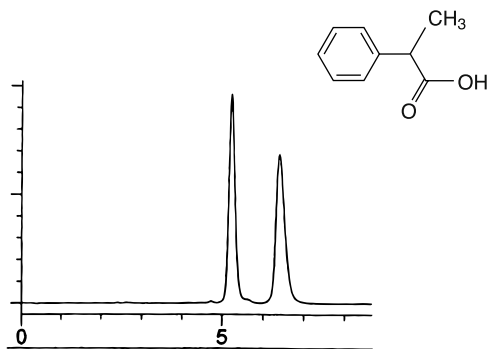
## Huperzine

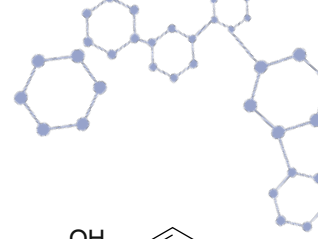
**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (70/30)  
CO<sub>2</sub>/Ethanol + 0.5% DEA  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40°C  
**Pressure:** 125 bar  
**Detection:** UV 220 nm  
**k'**: 2.20  
 **$\alpha$ :** 1.54  
**Catalog #:** 1-783104-300



## 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  
**Reference:** 46  
**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

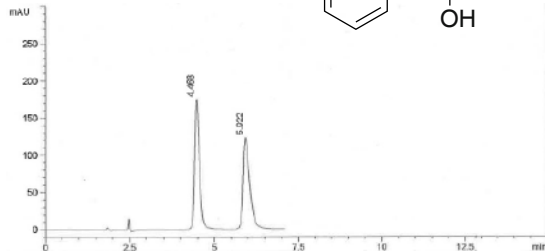
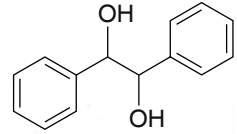
**Flow Rate:** 1.5 mL/min

**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

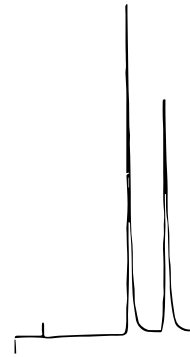
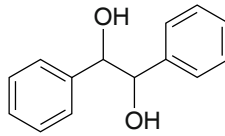
**Run Time:** 18 min

**k'**: 1.14

**$\alpha$** : 1.40

**Reference:** 18

**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°C

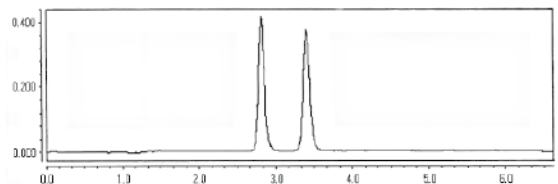
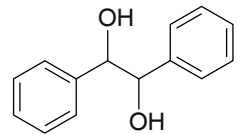
**Pressure:** 125 bar

**Detection:** UV 254 nm

**k'**: 2.75

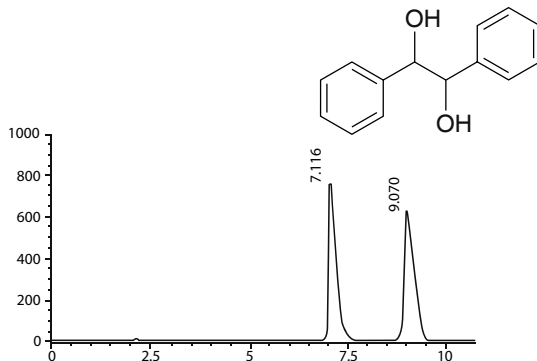
**$\alpha$** : 1.28

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



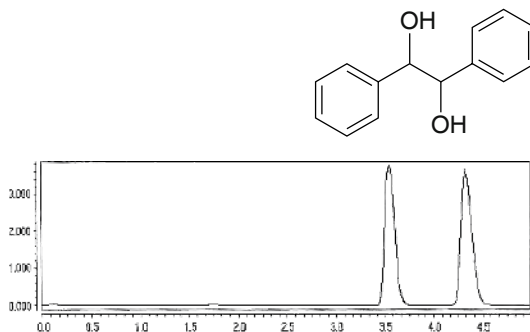
## Hydrobenzoin

**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'**: 2.75  
 **$\alpha$ :** 1.37  
**CAS #:** 27134-24-3  
**Catalog #:** 1-783104-300



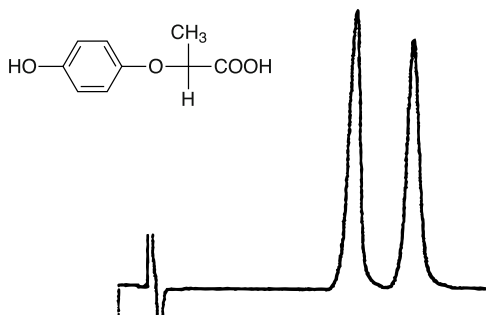
## Hydrobenzoin

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (85/15)  
 $\text{CO}_2$ /Ethanol  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40°C  
**Pressure:** 125 bar  
**Detection:** UV 220 nm  
**k'**: 3.72  
 **$\alpha$ :** 1.28  
**Catalog #:** 1-783104-300

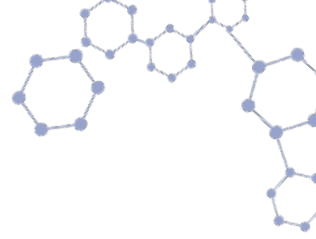


## 2-(4-Hydroxy-Phenoxy) Propionic Acid

**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  
**Reference:** 46  
**Catalog #:** 1-787200-300

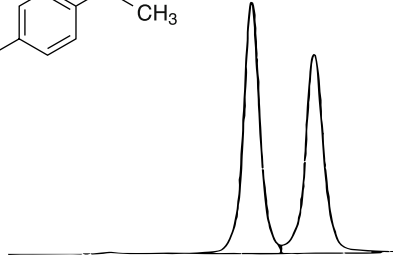
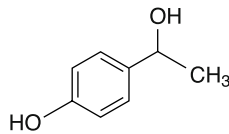






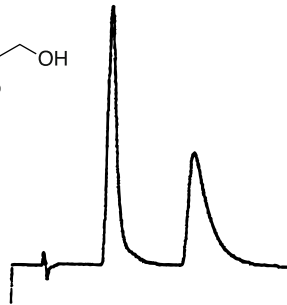
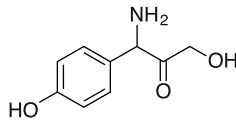
## 1-(4-Hydroxyphenyl) Ethanol

**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



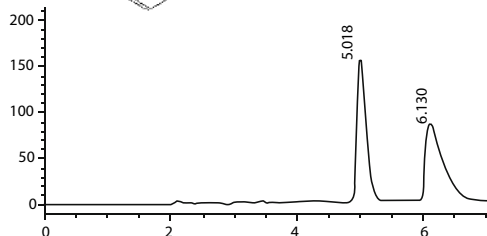
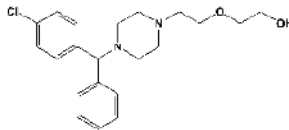
## D,L-p-Hydroxy-Phenylglycine

**Column:** ChiroSil SCA(+),  
5  $\mu\text{m}$ , 15 cm x 4.6 mm  
**Mobile Phase:** (50/50) CH<sub>3</sub>ON/  
H<sub>2</sub>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  
**Reference:** 46  
**Catalog #:** 1-799101-300



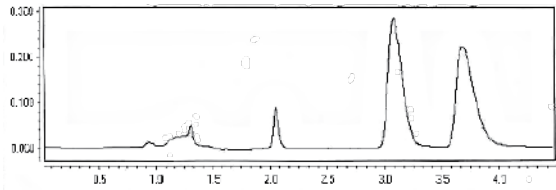
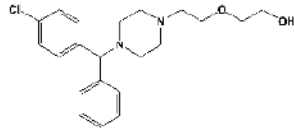
## Hydroxyzine

**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



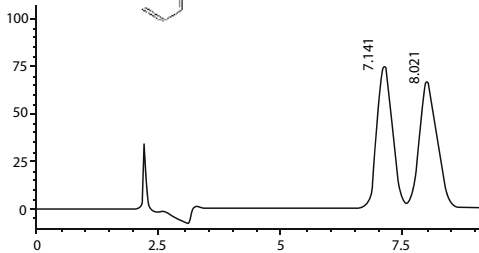
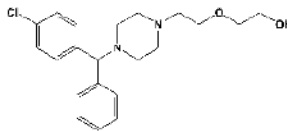
## Hydroxyzine

**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°C  
**Pressure:** 125 bar  
**Detection:** UV 254 nm  
**k'**: 3.11  
 **$\alpha$ :** 1.26  
**Catalog #:** 1-783104-300



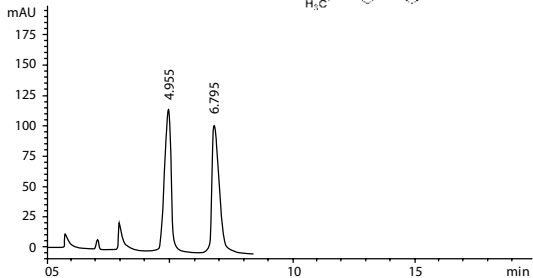
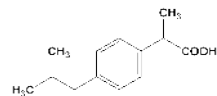
## Hydroxyzine

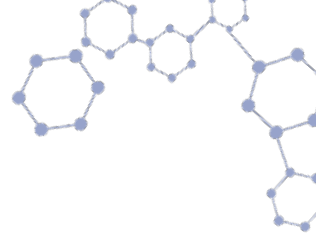
**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (98/2)  
Hexane/Ethanol+ 0.1% DEA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**k'**: 2.76  
 **$\alpha$ :** 1.17  
**CAS #:** 68-88-2  
**Catalog #:** 1-784104-300



## Ibuprofen

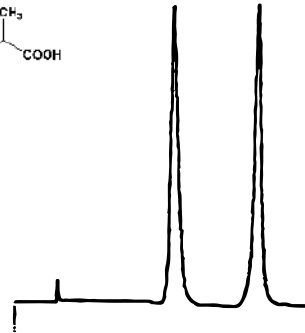
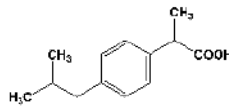
**Column:** (S,S) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
Hexane/IPA + 0.1 % DEA  
+ 0.1% Acetic Acid  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**k'**: 1.57  
 **$\alpha$ :** 2.52  
**Catalog #:** 1-780101-300





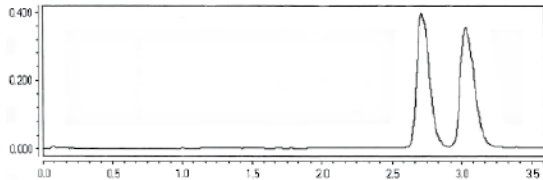
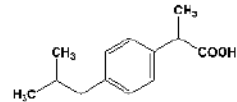
## Ibuprofen

**Column:** (R,R) Whelk-O 1,  
5  $\mu\text{m}$ , 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:** 11.8 min  
**k'**: 3.21  
 **$\alpha$ :** 1.72  
**Reference:** 46  
**Catalog #:** 1-780201-300



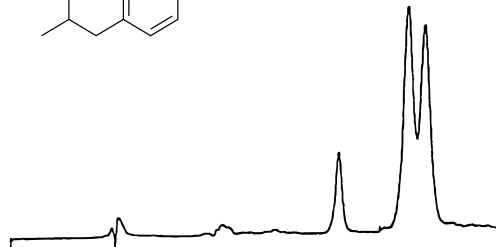
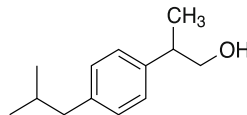
## Ibuprofen

**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



## 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  
**Reference:** 26  
**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

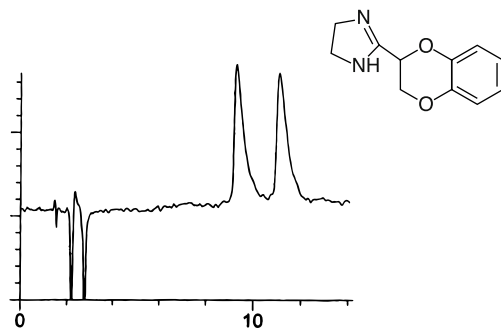
**Detection:** UV 254 nm

**k':** 5.86

**$\alpha$ :** 1.23

**Reference:** 46

**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

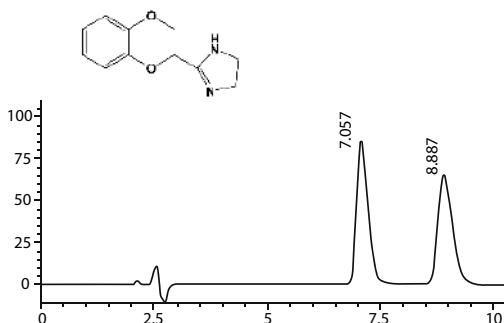
**Detection:** UV 254 nm

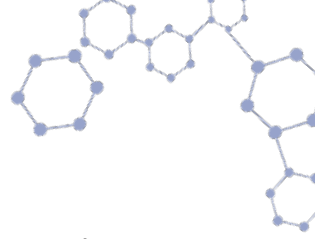
**k':** 2.71

**$\alpha$ :** 1.35

**CAS #:** 79944-58-4

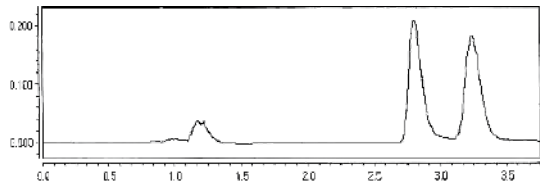
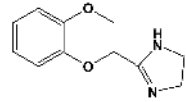
**Catalog #:** 1-784104-300





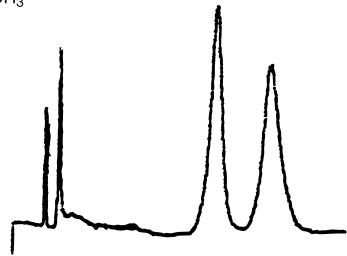
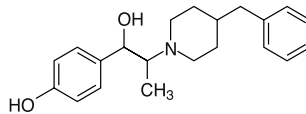
## Idazoxan

**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (85/15)  
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'**: 2.73  
 **$\alpha$** : 1.21  
**Catalog #:** 1-784104-300



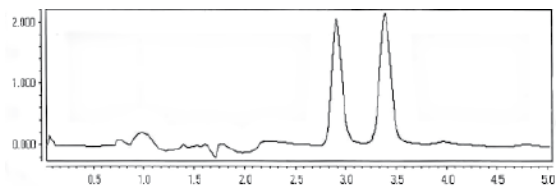
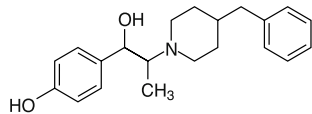
## Ifenprodil

**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  
**Reference:** 46  
**Catalog #:** 1-780101-300



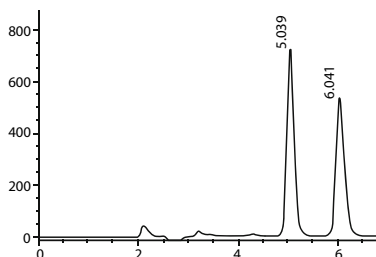
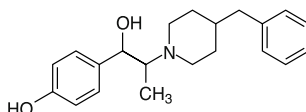
## Ifenprodil

**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



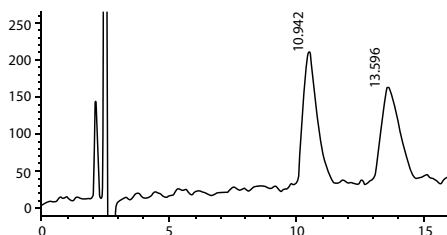
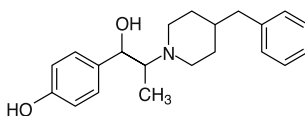
## Ifenprodil

**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



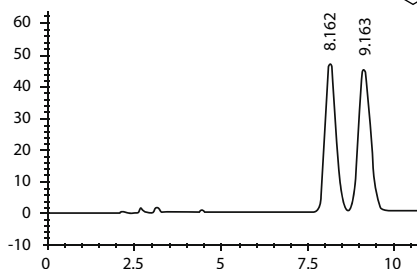
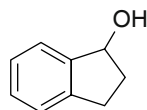
## Ifenprodil

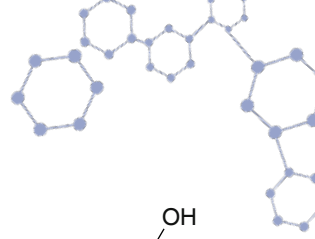
**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
Hexane/Ethanol + 0.1% DEA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
**k':** 4.52  
 **$\alpha$ :** 1.36  
**CAS #:** 23210-56-2  
**Catalog #:** 1-784104-300



## 1-Indanol

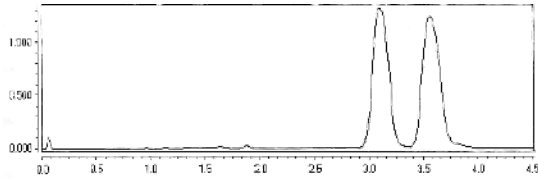
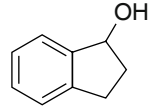
**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (98/2)  
Hexane/IPA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**k':** 3.30  
 **$\alpha$ :** 1.16  
**CAS #:** 6351-10-6  
**Catalog #:** 1-784104-300





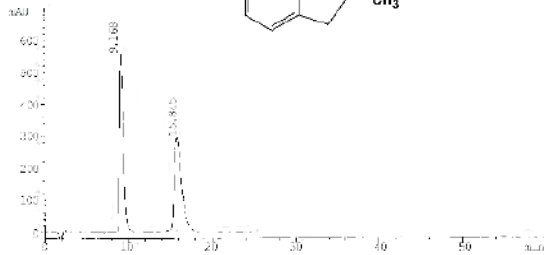
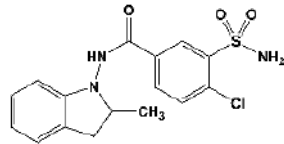
## 1-Indanol

**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (96/4)  
CO<sub>2</sub>/IPA  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40°C  
**Pressure:** 125 bar  
**Detection:** UV 220 nm  
**k'**: 3.14  
 **$\alpha$** : 1.19  
**Catalog #:** 1-784104-300



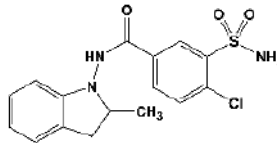
## Indapamide

**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



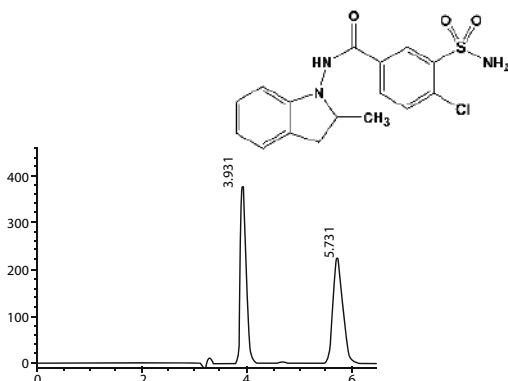
## Indapamide

**Column:** 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  
**Reference:** 18  
**k'**: 2.46  
 **$\alpha$** : 1.68  
**Catalog #:** 1-780101-300



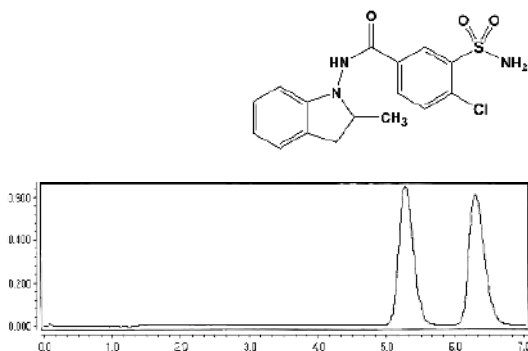
## Indapamide

**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



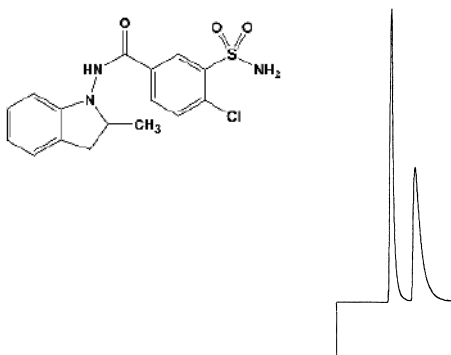
## Indapamide

**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (80/20)  
 $\text{CO}_2/\text{CH}_3\text{OH}$   
**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

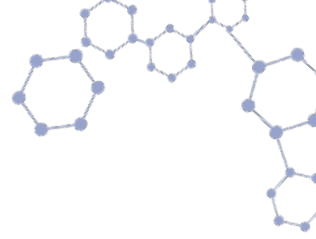


## Indapamide

**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  
**Reference:** 46  
**Catalog #:** 1-787200-300

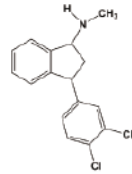
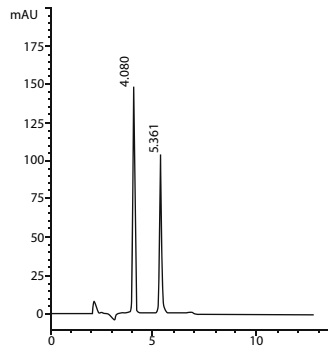






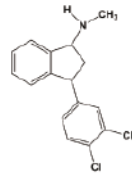
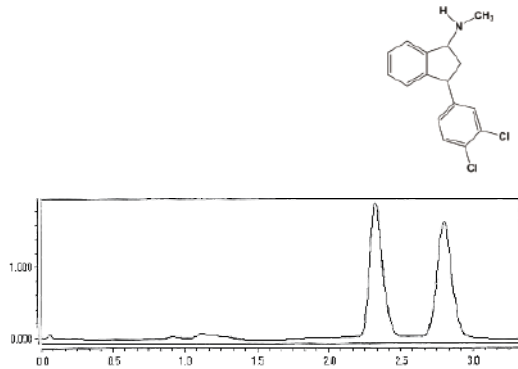
## Indatraline

**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 254 nm  
**k'**<sub>1</sub>: 1.14  
 **$\alpha$** : 1.29  
**CAS #:** 86939-10-8  
**Catalog #:** 1-783104-300



## Indatraline

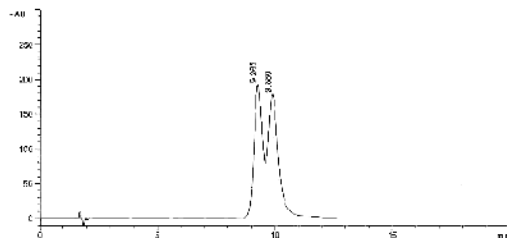
**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (80/20)  
 $\text{CO}_2/\text{CH}_3\text{OH}$  + 0.5% DEA  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40°C  
**Pressure:** 125 bar  
**Detection:** UV 220 nm  
**k'**<sub>1</sub>: 2.11  
 **$\alpha$** : 1.30  
**Catalog #:** 1-783104-300



## Indole

*N*-[2-(2-furoylamino)benzoyl]tryptophan

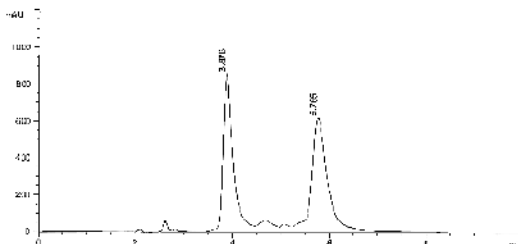
**Column:** (S,S) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (60/40)  
Hexane/Ethanol  
+ 0.1% TFA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
**k'**<sub>1</sub>: 3.87  
**k'**<sub>2</sub>: 4.20  
 **$\alpha$** : 1.09  
**Catalog #:** 1-780101-300



## Indole

*N*-[2-(2-furoylamino)benzoyl]tryptophan

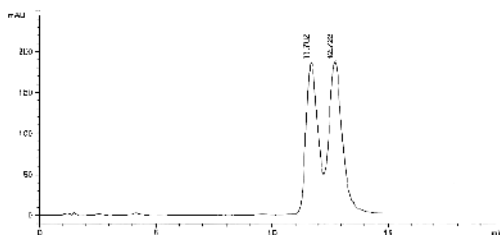
**Column:** RegisPack,  
5  $\mu$ m, 25 cm x 4.6 mm  
**Mobile Phase:** (85/15)  
Hexane/IPA + 0.1% TFA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
**k'1:** 4.57  
**k'2:** 5.85  
 **$\alpha$ :** 1.28  
**Catalog #:** 1-783104-300



## 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

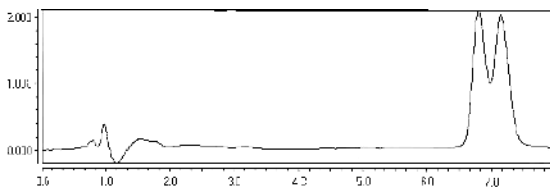
**Column:** (S,S) Whelk-O 1,  
5  $\mu$ m, 25 cm x 4.6 mm  
**Mobile Phase:** (60/40)  
Hexane/Ethanol  
**Flow Rate:** 2.0 mL/min  
**Detection:** UV 220 nm  
**k'1:** 7.07  
**k'2:** 7.77  
 **$\alpha$ :** 1.10  
**Catalog #:** 1-780101-300

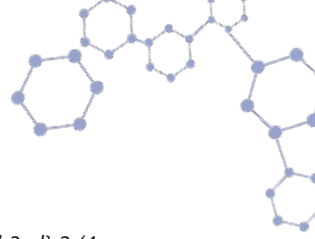


## Indole

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  $\mu$ 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'1:** 8.09  
**k'2:** 8.53  
 **$\alpha$ :** 1.05  
**Catalog #:** 1-780101-300

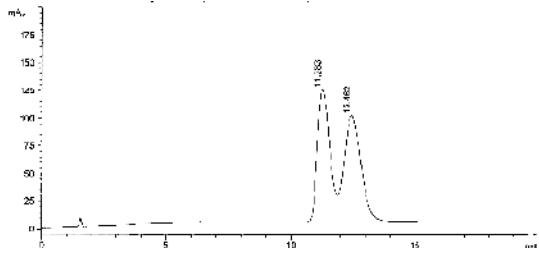




## Indole

*1-[1-[2-(2-methyl-2,3-dihydro-1H-indol-1-yl)-2-oxoethyl]-1H-indol-3-yl]-2-(4-morpholinyl)-2-oxoethanone*

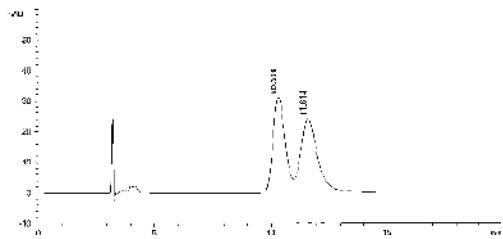
**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (80/20)  
Hexane/Ethanol  
**Flow Rate:** 2.0 mL/min  
**Detection:** UV 220 nm  
**k'**<sub>1</sub>: 6.78  
**k'**<sub>2</sub>: 7.59  
 **$\alpha$** : 1.12  
**Catalog #:** 1-783104-300



## 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*

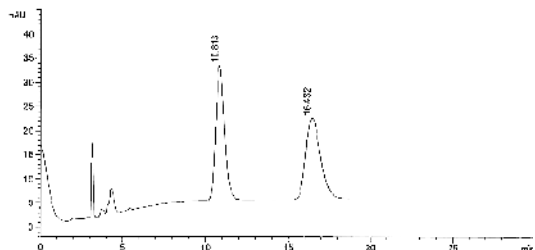
**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** 100% Ethanol  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 220 nm  
**k'**<sub>1</sub>: 2.56  
**k'**<sub>2</sub>: 3.00  
 **$\alpha$** : 1.17  
**Catalog #:** 1-783104-300



## 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*

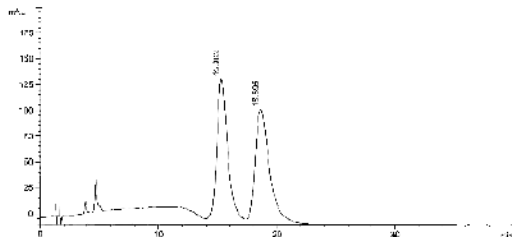
**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** 100% Ethanol  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 220 nm  
**k'**<sub>1</sub>: 2.73  
**k'**<sub>2</sub>: 4.67  
 **$\alpha$** : 1.71  
**Catalog #:** 1-784104-300



## Indole

*N*-[2-[(4-methylbenzoyl)amino]benzoyl]tryptophan

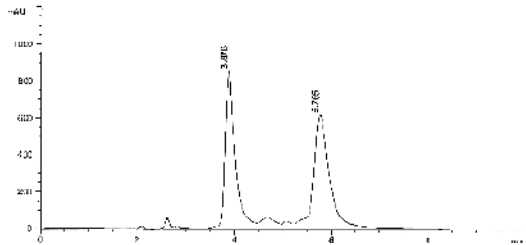
**Column:** (S,S) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (65/35)  
Hexane/IPA + 0.1% TFA  
**Flow Rate:** 2.0 mL/min  
**Detection:** UV 220 nm  
**k'**<sub>1</sub>: 9.52  
**k'**<sub>2</sub>: 11.83  
 **$\alpha$** : 1.24  
**Catalog #:** 1-780101-300



## Indole

*N*-[2-[(4-methylbenzoyl)amino]benzoyl]tryptophan

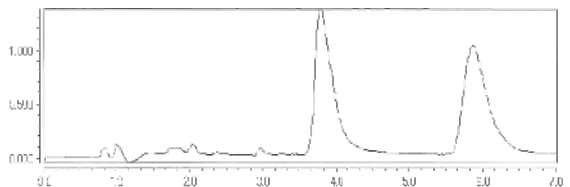
**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (70/30)  
Hexane/IPA + 0.1% TFA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
**k'**<sub>1</sub>: 1.04  
**k'**<sub>2</sub>: 2.04  
 **$\alpha$** : 1.96  
**Catalog #:** 1-783104-300

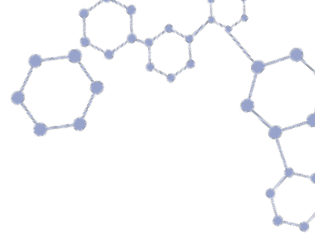


## Indole

*N*-[2-[(4-methylbenzoyl)amino]benzoyl]tryptophan

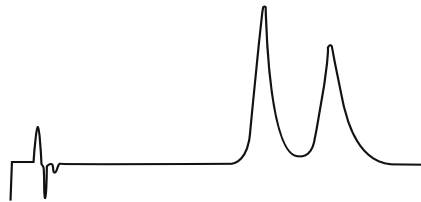
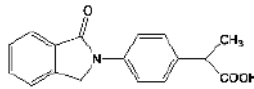
**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (70/30)  
CO<sub>2</sub>/Ethanol + 0.2% DEA  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40°C  
**Pressure:** 125 bar  
**Detection:** UV 220 nm  
**k'**<sub>1</sub>: 4.04  
**k'**<sub>2</sub>: 6.85  
 **$\alpha$** : 1.70  
**Catalog #:** 1-783104-300





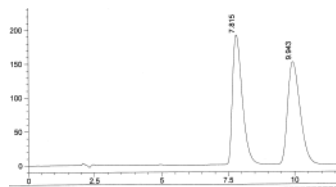
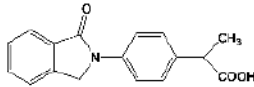
## Indoprofen

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



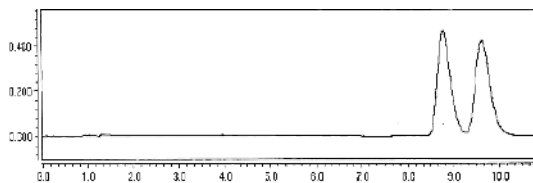
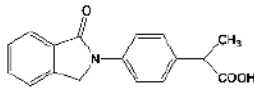
## Indoprofen

**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (85/15)  
Hexane/IPA + 0.1% TGA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**k'**: 3.11  
 **$\alpha$ :** 1.36  
**CAS #:** 31842-01-0  
**Catalog #:** 1-784104-300



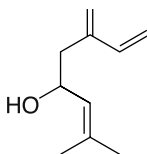
## Indoprofen

**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
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'**: 10.70  
 **$\alpha$ :** 1.11  
**Catalog #:** 1-784104-300



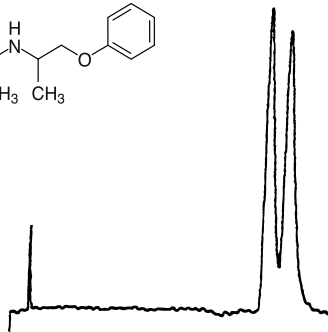
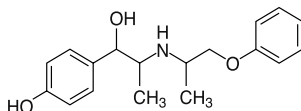
## Ipsdienol

**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  
**Reference:** 18  
**Catalog #:** 1-780101-300,  
1-780201-300



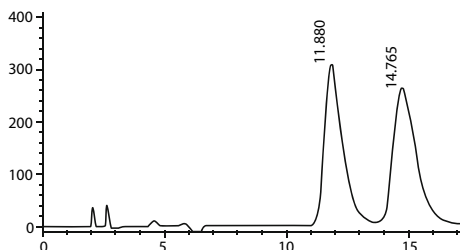
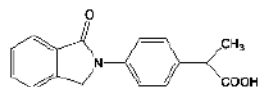
## Isoxsuprine

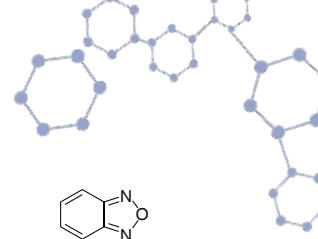
**Column:** (R,R) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (95/5)  
Hexane/Ethanol + 0.01 M  
Ammonium Acetate  
**Flow Rate:** 2.0 mL/min  
**Detection:** UV 220 nm  
**Run Time:** 28.0 min  
**k':** 17.91  
 **$\alpha$ :** 1.08  
**Reference:** 46  
**Catalog #:** 1-780201-300



## 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

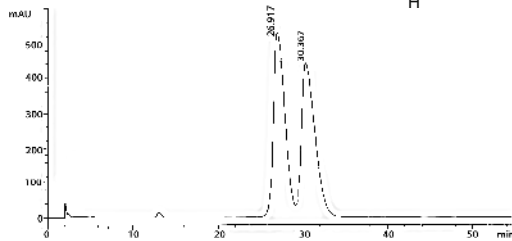
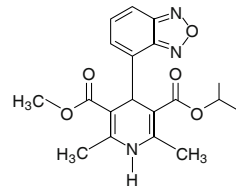
**Flow Rate:** 1.5 mL/min

**Detection:** UV 254 nm

**k'**: 12.95

**$\alpha$** : 1.14

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



## Isradipine

**Column:** 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

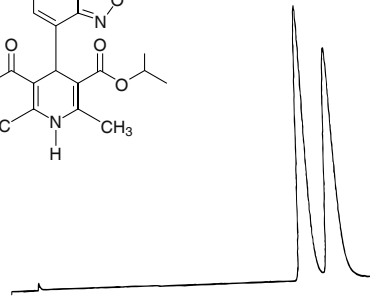
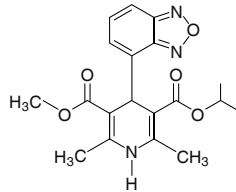
**Run Time:** 52 min

**k'**: 9.71

**$\alpha$** : 1.10

**Reference:** 18

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



## Isradipine

*Reversed Phase*

**Column:** 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

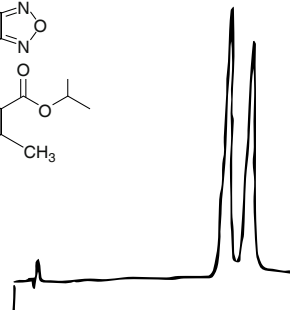
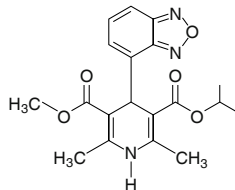
**Run Time:** 35 min

**k'**: 11.21

**$\alpha$** : 1.12

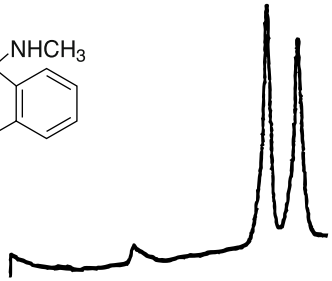
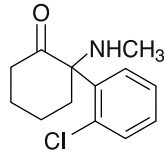
**Reference:** 18

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



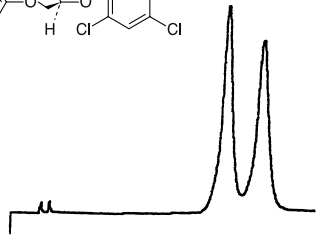
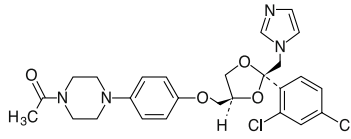
## Ketamine

**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  
**Reference:** 46  
**Catalog #:** 1-786615-300



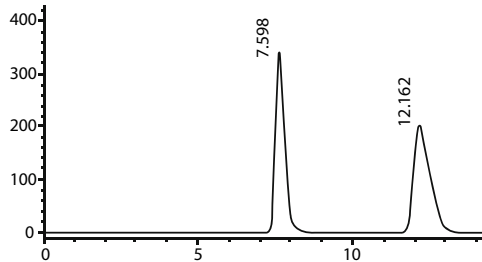
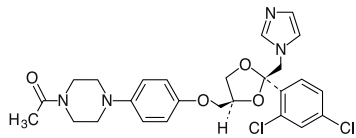
## Ketoconazole

**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  
**Reference:** 46  
**Catalog #:** 1-786615-300

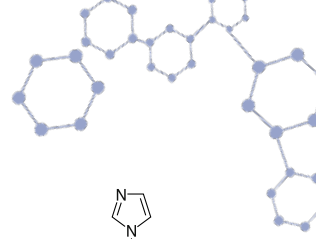


## Ketoconazole

**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

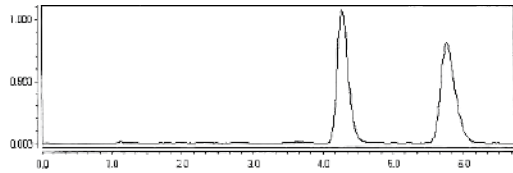
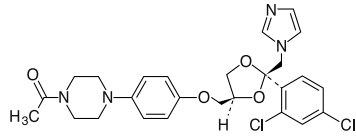






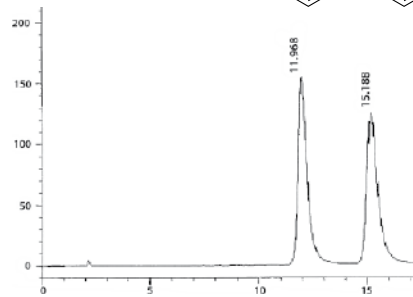
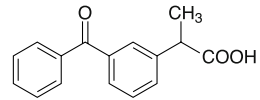
## Ketoconazole

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (60/40)  
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'**: 4.70  
 **$\alpha$ :** 1.42  
**Catalog #:** 1-783104-300



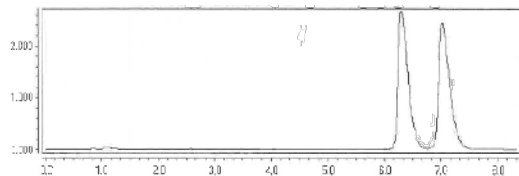
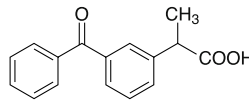
## Ketoprofen

**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



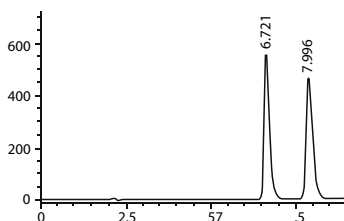
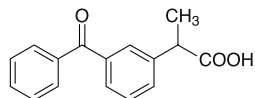
## Ketoprofen

**Column:** (S,S) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (80/20)  
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'**: 7.41  
 **$\alpha$ :** 1.13  
**Catalog #:** 1-780101-300



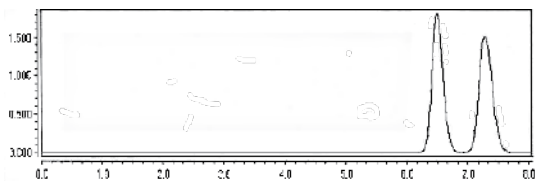
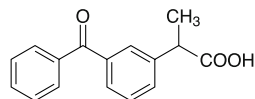
## Ketoprofen

**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'**: 2.54  
 **$\alpha$ :** 1.26  
**CAS #:** 22071-15-4  
**Catalog #:** 1-783104-300



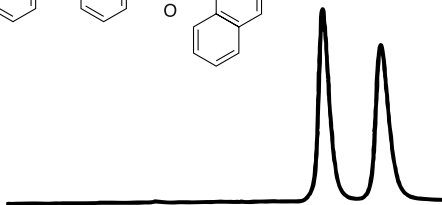
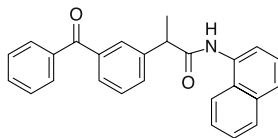
## Ketoprofen

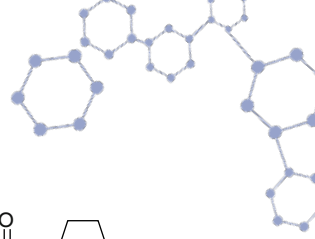
**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
CO<sub>2</sub>/Ethanol + 0.5% DEA  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40°C  
**Pressure:** 125 bar  
**Detection:** UV 254 nm  
**k'**: 7.65  
 **$\alpha$ :** 1.14  
**Catalog #:** 1-783104-300



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

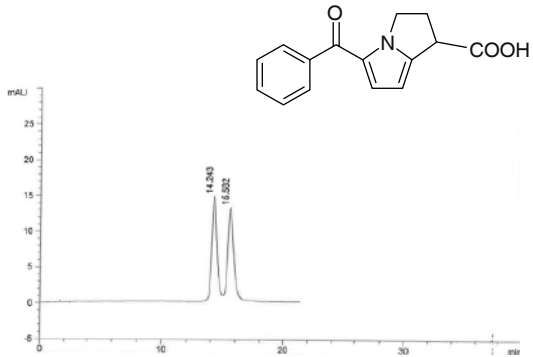
**Mobile Phase:** (90/10)  
Hexane/Ethanol  
+ 0.1% Acetic Acid

**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  $\mu\text{m}$ , 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

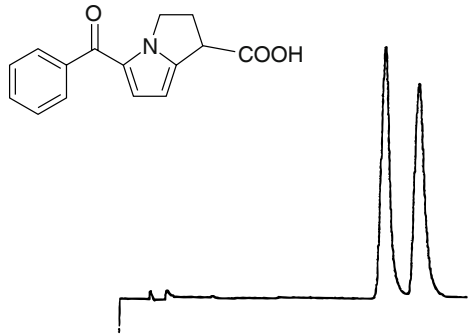
**Run Time:** 20.0 min

**k'**: 8.87

**$\alpha$** : 1.15

**Reference:** 46

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



## Ketorolac

**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% AcAc

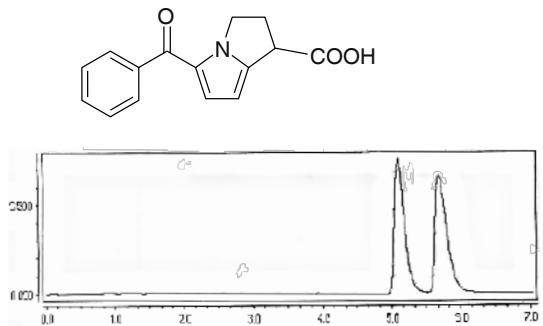
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40°C

**Pressure:** 125 bar  
**Detection:** UV 254 nm

**k'**: 5.80

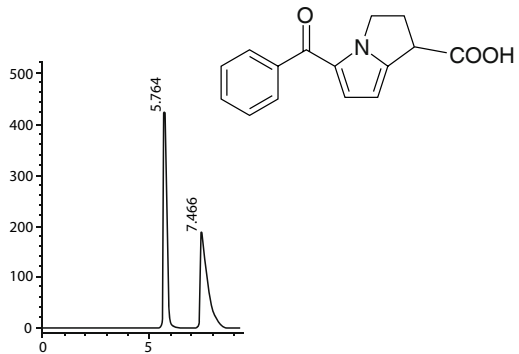
**$\alpha$** : 1.13

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



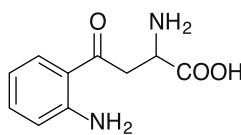
## Ketorolac

**Column:** RegisPack,  
5  $\mu$ m, 25 cm x 4.6 mm  
**Mobile Phase:** (76/12/12)  
Hexane/Ethanol/Methanol  
+ 0.1% TFA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**k':** 1.99  
 **$\alpha$ :** 1.44  
**CAS #:** 74103-06-3  
**Catalog #:** 1-783104-300



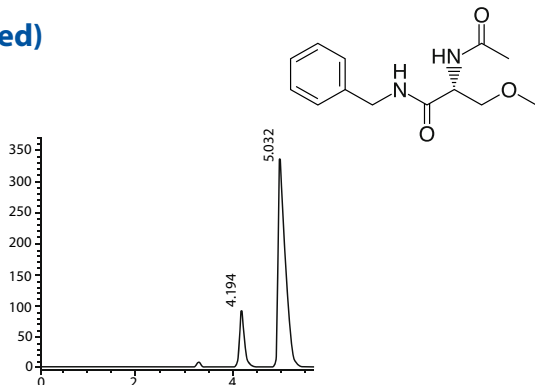
## Kynurenine

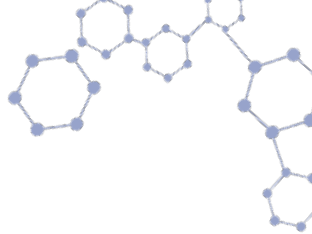
**Column:** (S,S) Whelk-O 1,  
10  $\mu$ m, 25 cm x 4.6 mm  
**Mobile Phase:** (65/35)  
H<sub>2</sub>O/CH<sub>3</sub>OH  
+ 0.1% Acetic Acid  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 9.0 min  
**k':** 1.17  
 **$\alpha$ :** 1.99  
**Reference:** 46  
**Catalog #:** 1-786615-300



## Lacosamide (Enriched)

**Column:** RegisPack,  
5  $\mu$ 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)  
Hex/CH<sub>2</sub>Cl<sub>2</sub>/IPA

**Flow Rate:** 1.0 mL/min

**Detection:** UV 254 nm

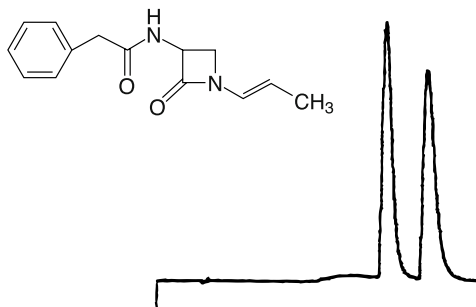
**Run Time:** 14.0 min

**k':** 3.40

**α:** 1.33

**Reference:** 59

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



## Lansoprazole

**Column:** RegisPack,  
5 μm, 25 cm x 4.6 mm

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

Hexane/IPA + 0.1% Acetic Acid

**Flow Rate:** 1.5 mL/min

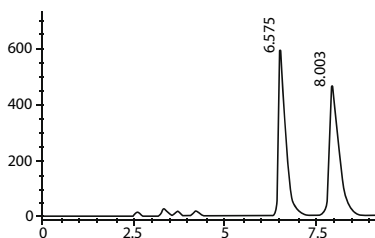
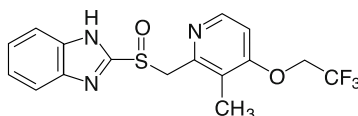
**Detection:** UV 254 nm

**k':** 2.46

**α:** 1.31

**CAS #:** 103577-45-3

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



## Lansoprazole

**Column:** RegisPack,  
5 μm, 25 cm x 4.6 mm

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

CO<sub>2</sub>/Ethanol

**Flow Rate:** 4.0 mL/min

**Temperature:** 40°C

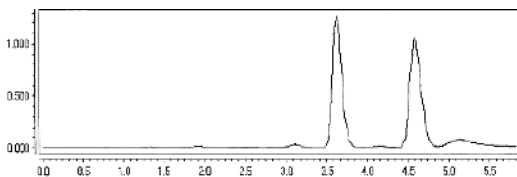
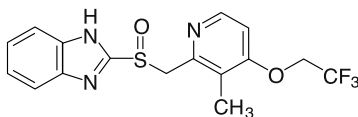
**Pressure:** 125 bar

**Detection:** UV 254 nm

**k':** 3.83

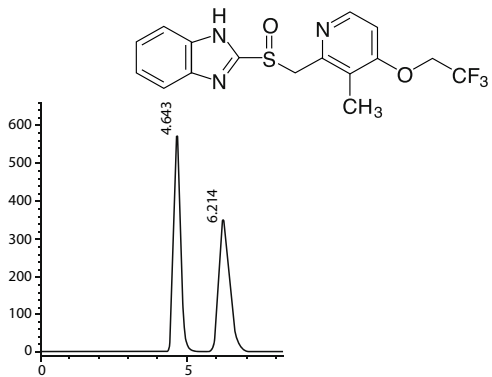
**α:** 1.34

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



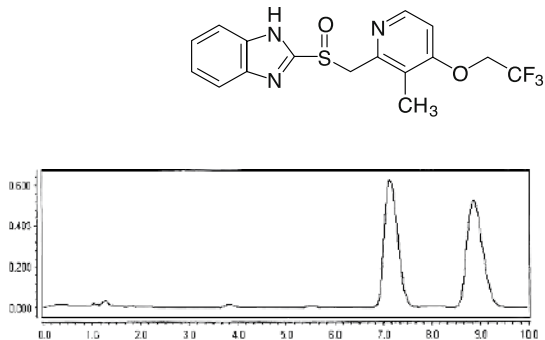
## Lansoprazole

**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (65/35)  
Hexane/IPA + 0.1% Acetic Acid  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 12.0 min  
**k'**: 1.44  
 **$\alpha$ :** 1.57  
**CAS #:** 103577-45-3  
**Catalog #:** 1-784104-300



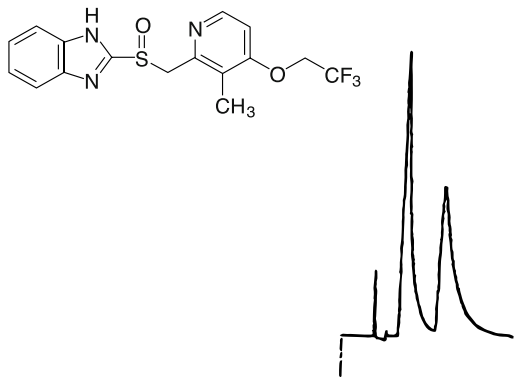
## Lansoprazole

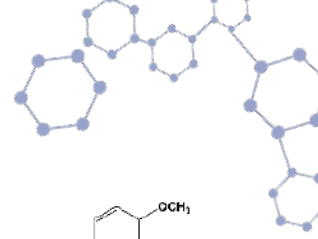
**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
CO<sub>2</sub>/Ethanol  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40°C  
**Pressure:** 125 bar  
**Detection:** UV 254 nm  
**k'**: 8.52  
 **$\alpha$ :** 1.27  
**Catalog #:** 1-784104-300



## Lansoprazole

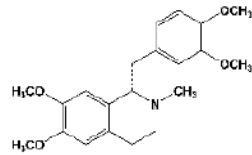
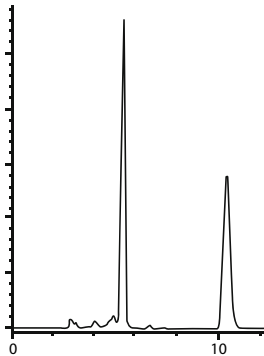
**Column:** (S)  $\alpha$ -Burke 2,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (94/3/3)  
CH<sub>2</sub>Cl<sub>2</sub>/Ethanol/Methanol  
+ 0.2% Acetic Acid  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 6.0 min  
**k'**: 0.88  
 **$\alpha$ :** 2.43  
**Reference:** 46  
**Catalog #:** 1-735037-300





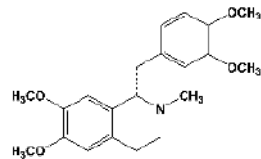
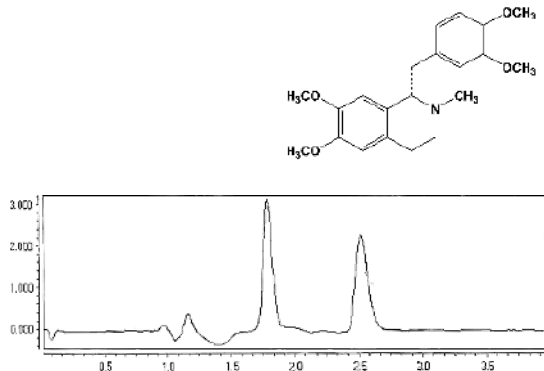
## Laudanosine

**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (80/20)  
Hexane/Ethanol  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 220 nm  
 **$k'$ <sub>1</sub>:** 0.79  
 **$\alpha$ <sub>1</sub>:** 3.10  
**Catalog #:** 1-784104-300



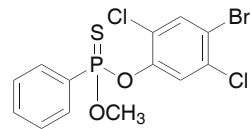
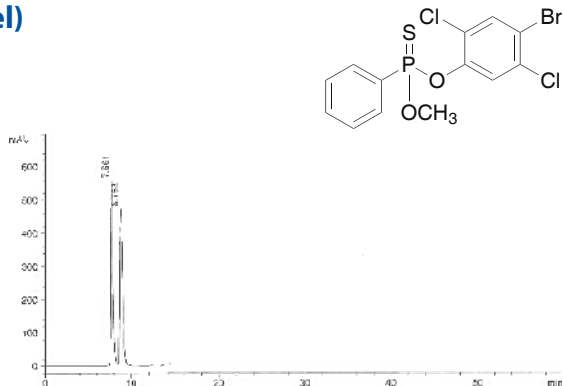
## Laudanosine

**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** CO<sub>2</sub>/IPA  
+ 0.5% DEA (70/30)  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40°C  
**Pressure:** 124 bar  
**Detection:** UV 220 nm  
 **$k'$ <sub>1</sub>:** 1.38  
 **$\alpha$ <sub>1</sub>:** 1.71  
**Catalog #:** 1-784104-300



## Leptophos (Phosvel)

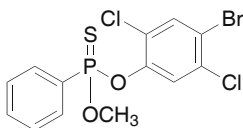
**Column:** (S,S) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** 100%  
Hexane  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
 **$k'$ <sub>1</sub>:** 2.97  
 **$\alpha$ <sub>1</sub>:** 1.19  
**Catalog #:** 1-780101-300



## Leptophos, Phosvel

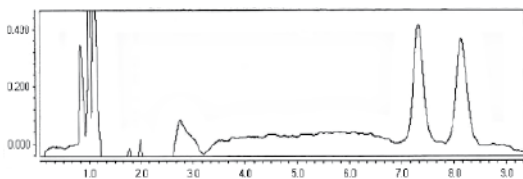
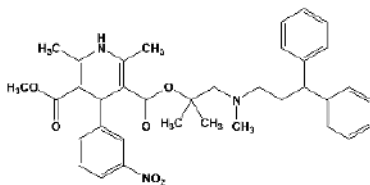
*Insecticide*

**Column:** Whelk-O 1,  
5  $\mu$ 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  
**Reference:** 43  
**Catalog #:** 1-780101-300,  
1-780201-300



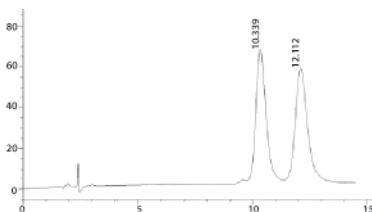
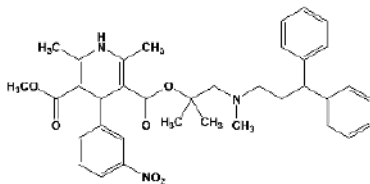
## Lercanidipine

**Column:** (S,S) Whelk-O 1,  
5  $\mu$ 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

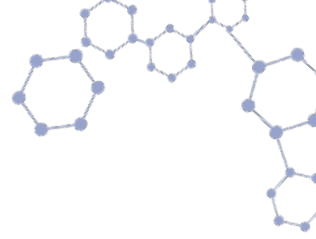


## Lercanidipine

**Column:** Whelk-O 1,  
5  $\mu$ 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

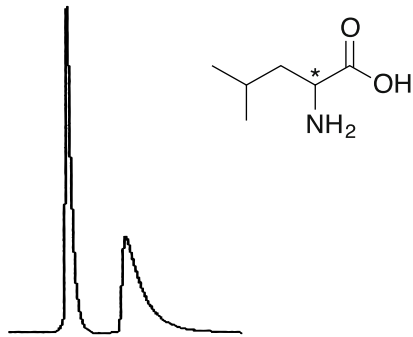






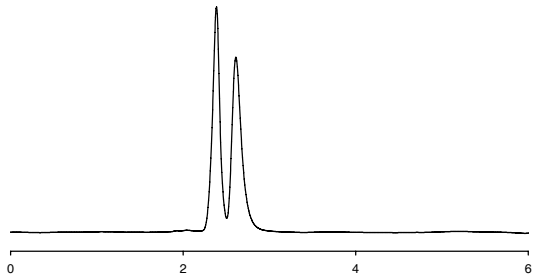
## Leucine

**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

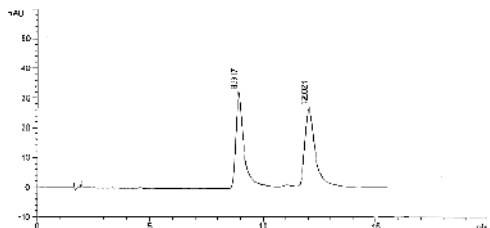
**Column:** ChiroSil ME RCA(+),  
5  $\mu\text{m}$ , 15 cm x 4.6 mm  
**Mobile Phase:** (30/70)  
10mM Acetic Acid / MeOH  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 210 nm  
**Temperature:** 20°C  
**k'**: 0.14  
 **$\alpha$** : 1.79  
**Catalog #:** 1-788001-300



## Leucolines

*N*-[(8-hydroxy-7-quinolinyl)(4-methylphenyl)methyl]-2-methylpropanamide

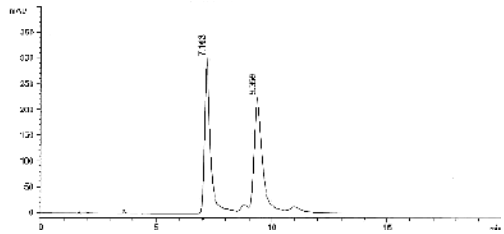
**Column:** (S,S) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (70/30)  
Hexane/Ethanol  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
**k'**: 5.15  
**k'**: 7.29  
 **$\alpha$** : 1.42  
**Catalog #:** 1-780101-300



## Leucolines

*N*-[(2-chlorophenyl)(8-hydroxy-7-quinoliny)methyl]-2-methylpropanamide

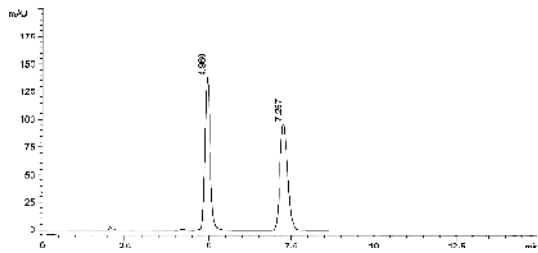
**Column:** (S,S) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (70/30)  
Hexane/Ethanol  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
**k'**<sub>1</sub>: 3.94  
**k'**<sub>2</sub>: 5.45  
 **$\alpha$** : 1.38  
**Catalog #:** 1-780101-300



## Leucolines

*N*-(2-hydroxy-5-methoxybenzylidene)-2-(8-quinolinylloxy)propanohydrazide

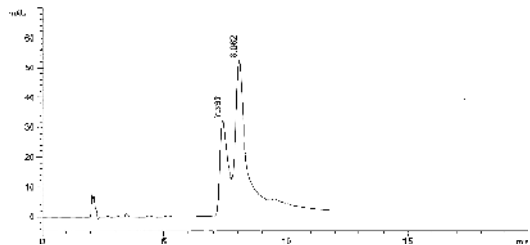
**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (65/35)  
Hexane/Ethanol  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
**k'**<sub>1</sub>: 1.61  
**k'**<sub>2</sub>: 2.82  
 **$\alpha$** : 1.75  
**Catalog #:** 1-783104-300

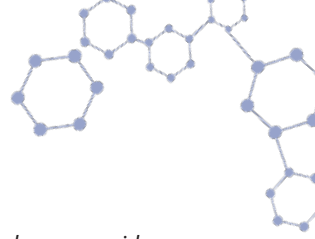


## Leucolines

*N*-[(3,4-dimethoxyphenyl)(8-hydroxy-7-quinoliny)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

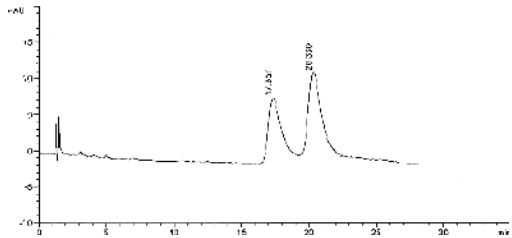




## Leucolines

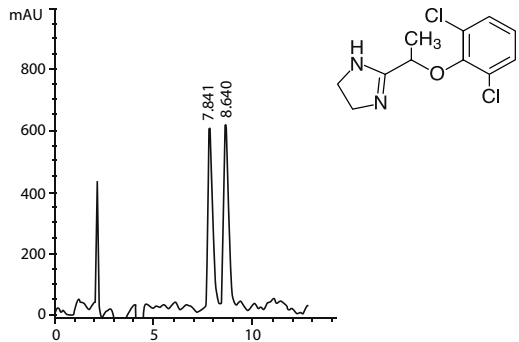
*N*-[(3,4-dimethoxyphenyl)(8-hydroxy-7-quinolinyl)methyl]-2-methylpropanamide

**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



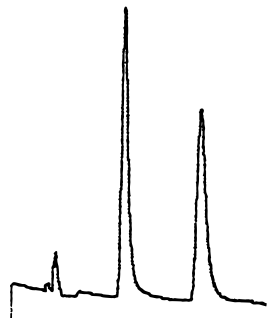
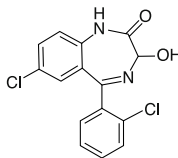
## Lofexidine

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (97/3)  
Hexane/IPA + 0.1% DEA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
**k'**<sub>1</sub>: 3.13  
 **$\alpha$** : 1.13  
**CAS #:** 31036-80-3  
**Catalog #:** 1-783104-300



## 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'**<sub>1</sub>: 2.08  
 **$\alpha$** : 2.02  
**Reference:** 46  
**Catalog #:** 1-780201-300



## Lorglumide

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

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

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

Hexane/IPA

+ 0.1% Acetic Acid

**Flow Rate:** 2.0 mL/min

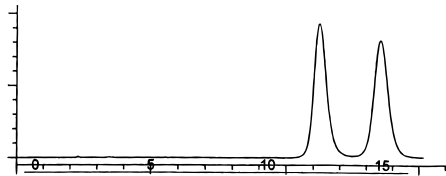
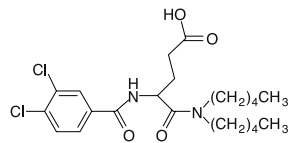
**Detection:** UV 254 nm

**k':** 5.22

**$\alpha$ :** 1.25

**Reference:** 46

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



## Lorglumide

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

5  $\mu$ 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

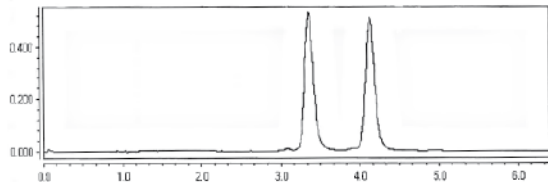
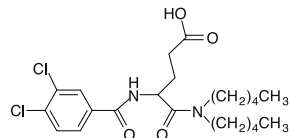
**Pressure:** 125 bar

**Detection:** UV 254 nm

**k':** 3.47

**$\alpha$ :** 1.30

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



## Loxiglumide

**Column:** Whelk-O 1,

5  $\mu$ 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 254 nm

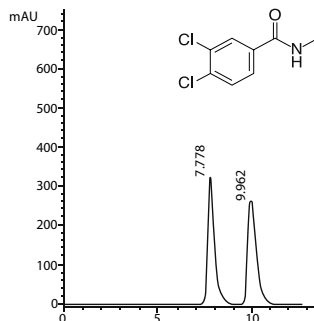
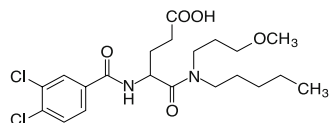
**k':** 4.56

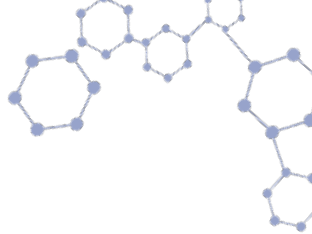
**$\alpha$ :** 1.34

**CAS #:** 107097-80-3

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

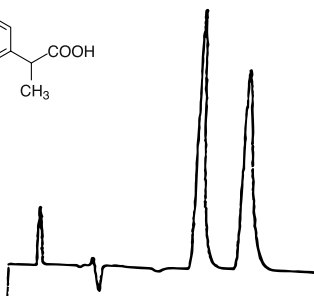
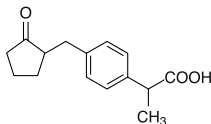
1-780201-300





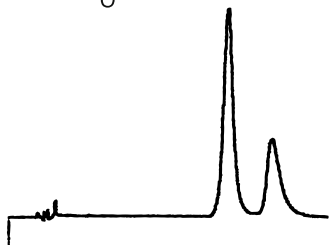
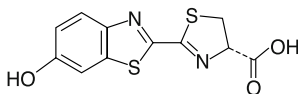
## Loxoprofen

**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  
**Reference:** 46  
**Catalog #:** 1-780201-300



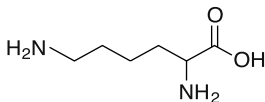
## Luciferin

**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  
**Reference:** 46  
**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

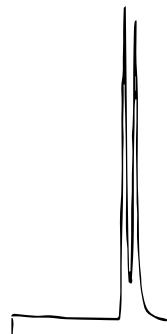
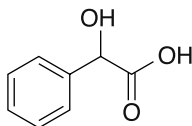
**Run Time:** 13 min

**$k'$ :** 3.08

**$\alpha$ :** 1.13

**Reference:** 18

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



## 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

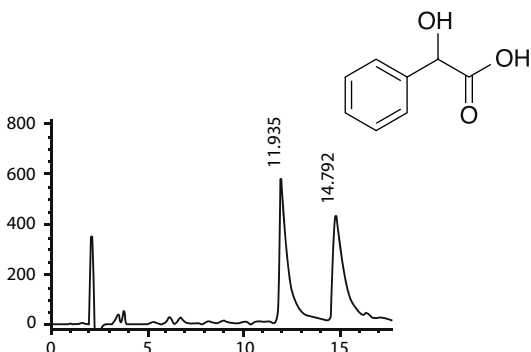
**Detection:** UV 220 nm

**$k'$ :** 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)  
 $\text{CO}_2$ /IPA + 0.5% TFA

**Flow Rate:** 4.0 mL/min

**Temperature:** 40°C

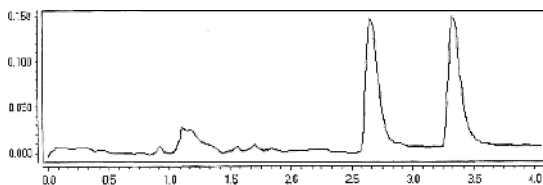
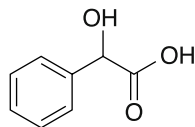
**Pressure:** 125 bar

**Detection:** UV 254 nm

**$k'$ :** 2.53

**$\alpha$ :** 1.36

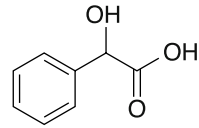
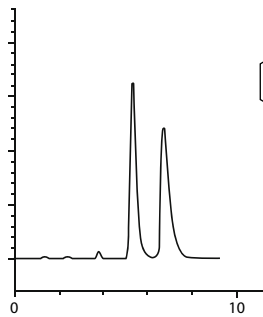
**Catalog #:** 1-783104-300





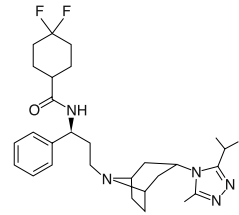
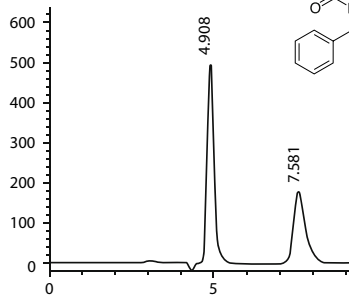
## Mandelic acid

**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 #:** 1-786446-300



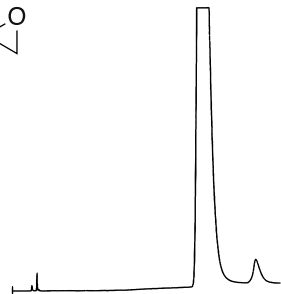
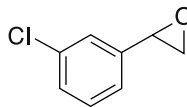
## Maraviroc

**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



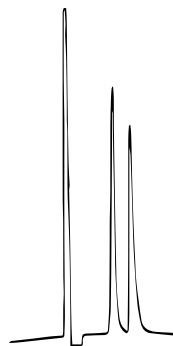
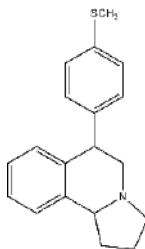
## m-Cl Styrene Oxide

**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



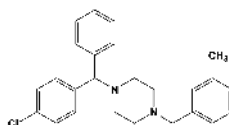
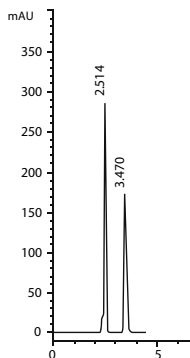
## McN 5652

**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (98/2)  
Hexane/IPA + 0.2%  
Diethylamine  
**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



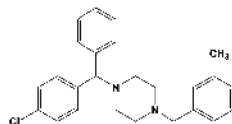
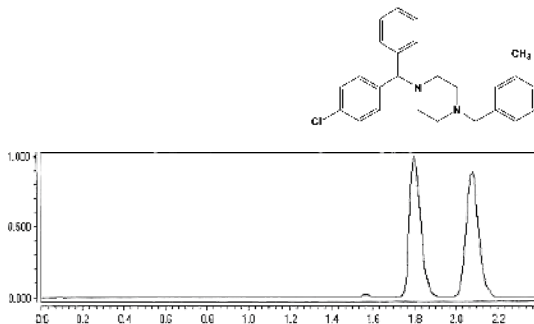
## Meclizine

**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 254 nm  
**k'**: 0.32  
 **$\alpha$ :** 2.58  
**CAS #:** 569-65-3  
**Catalog #:** 1-783104-300

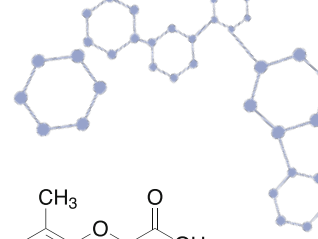


## Meclizine

**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

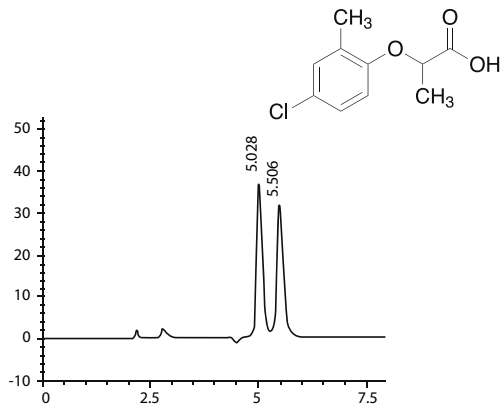






## Mecoprop

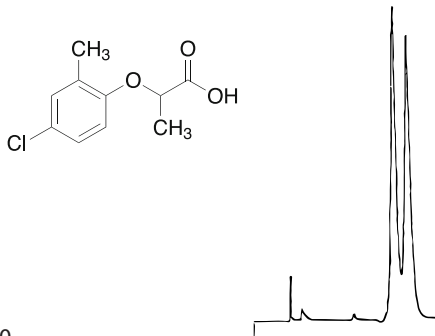
**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (99/1)  
Hexane/IPA + 0.1% Acetic Acid  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**k'**: 1.61  
 **$\alpha$ :** 1.15  
**CAS #:** 93-65-2  
**Catalog #:** 1-780101-300,  
1-780201-300



## Mecoprop

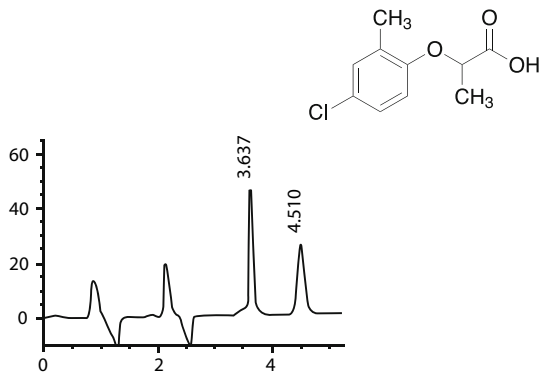
*Herbicide*

**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  
**Reference:** 43  
**Catalog #:** 1-780101-300, 1-780201-300



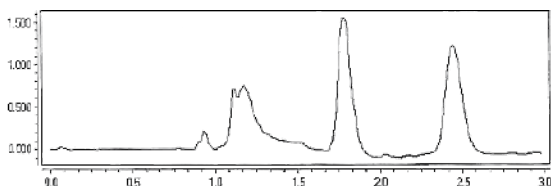
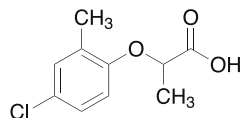
## Mecoprop

**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

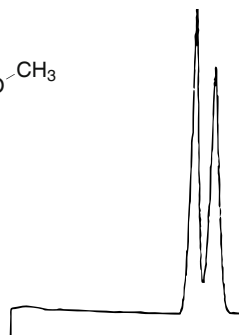
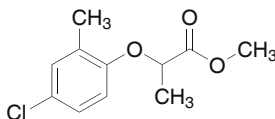
**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
CO<sub>2</sub>/IPA + 0.5% TFA  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40°C  
**Pressure:** 124 bar  
**Detection:** UV 220 nm  
**k':** 1.38  
 **$\alpha$ :** 1.64  
**Catalog #:** 1-783104-300



## Mecoprop Methyl

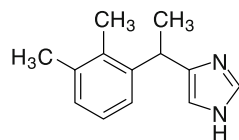
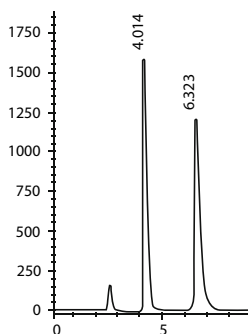
*Insecticide*

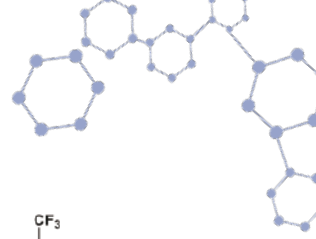
**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** 100% Hexane  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 15 min  
**k':** 6.92  
 **$\alpha$ :** 1.15  
**Reference:** 43  
**Catalog #:** 1-780101-300, 1-780201-300



## Medetomidine

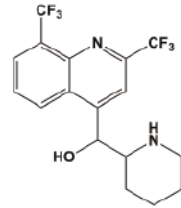
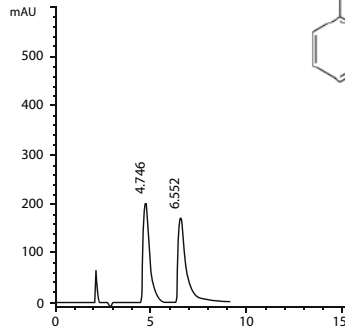
**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (75/25)  
Hexane/IPA + 0.1%DEA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
**k':** 1.09  
 **$\alpha$ :** 2.09  
**CAS #:** 86347-14-0  
**Catalog #:** 1-780101-300,  
1-780201-300





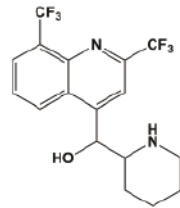
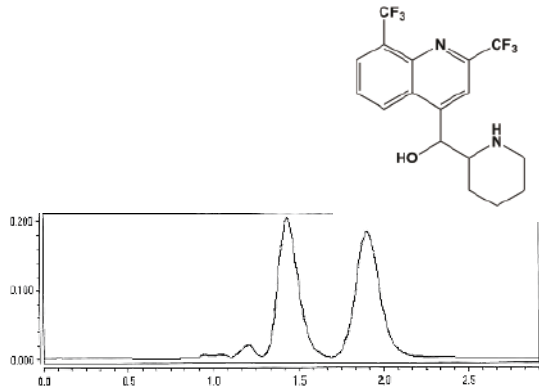
## Mefloquine

**Column:** 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'**: 1.50  
 **$\alpha$ :** 1.63  
**CAS #:** 53230-10-7  
**Catalog #:** 1-784104-300



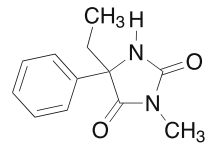
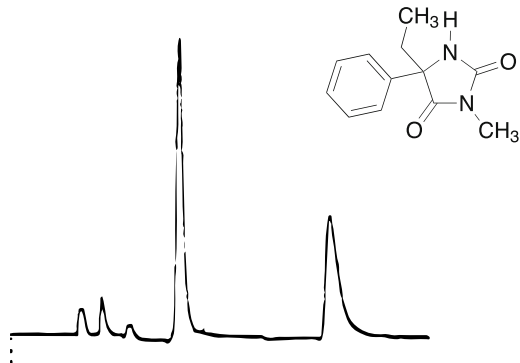
## Mefloquine

**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (85/15)  
 $\text{CO}_2$ /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



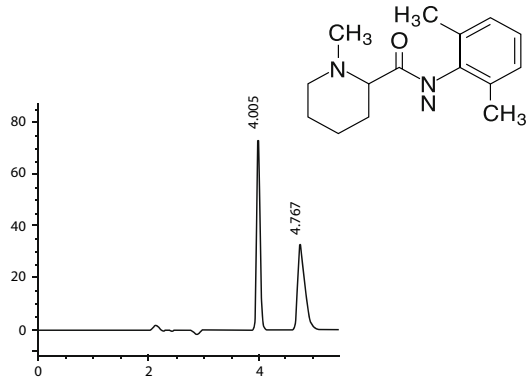
## Mephénytín

**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



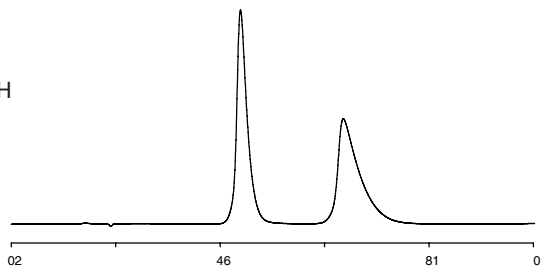
## Mepivacaine

**Column:** 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':** 1.11  
 **$\alpha$ :** 1.51  
**CAS #:** 96-88-8  
**Catalog #:** 1-783104-300



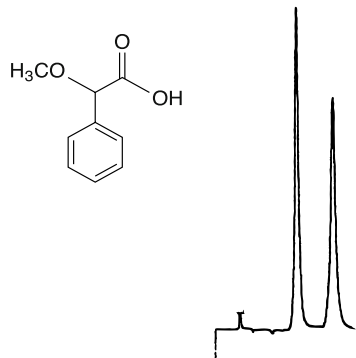
## DL-Methionine

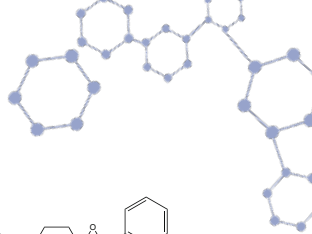
**Column:** ChiroSil ME RCA(+),  
5  $\mu\text{m}$ , 15 cm x 4.6 mm  
**Mobile Phase:** (30/70)  
0.01% Phosphoric Acid/MeOH  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 210 nm  
**Temperature:** 20°C  
**k':** 1.32  
 **$\alpha$ :** 1.79  
**Catalog #:** 1-788001-300



## $\alpha$ -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  
**Reference:** 46  
**Catalog #:** 1-786615-300



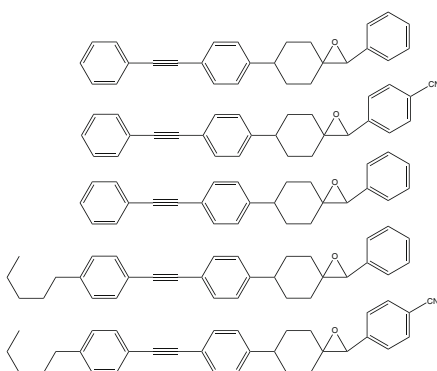


## Mesogens

Mesogenepoxide derivatives

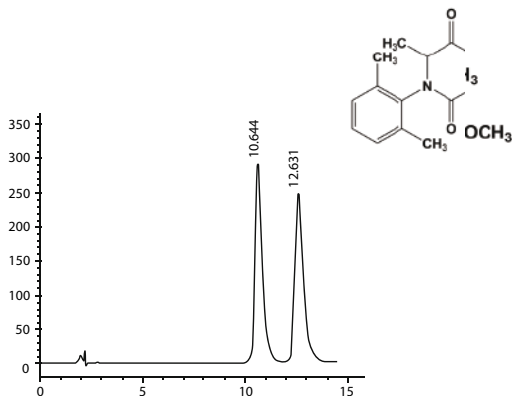
Schuster's Candidate  
Photoresolvable

Reference: 13



## Metalaxyl

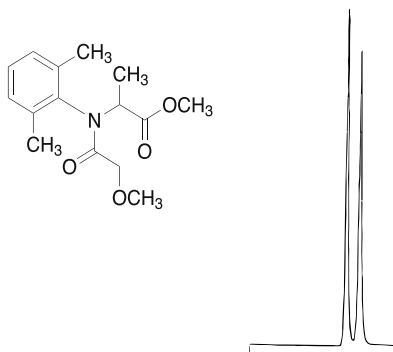
**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (60/40)  
Hexane/IPA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
 **$k'$ :** 4.60  
 **$\alpha$ :** 1.23  
**CAS #:** 57837-19-1  
**Catalog #:** 1-780101-300,  
1-780201-300



## 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  
**Reference:** 43  
**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°C

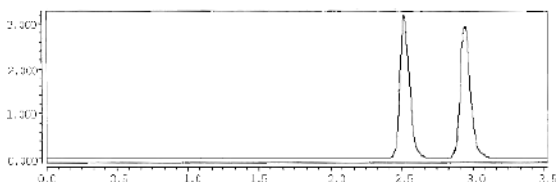
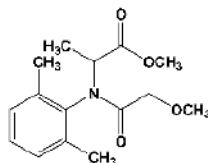
**Pressure:** 125 bar

**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

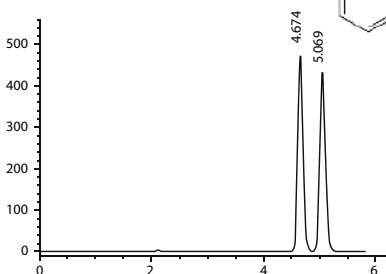
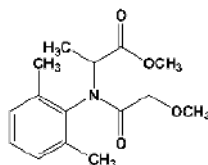
**Detection:** UV 220 nm

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

**Flow Rate:** 4.0 mL/min

**Temperature:** 40°C

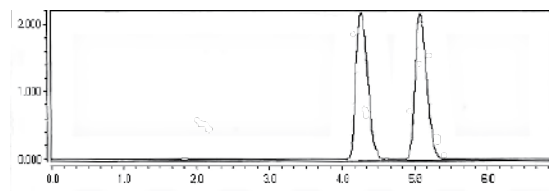
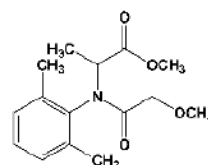
**Pressure:** 125 bar

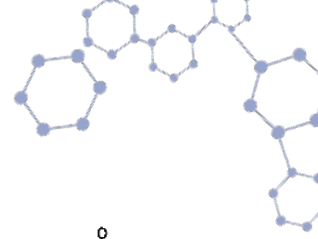
**Detection:** UV 220 nm

**k':** 4.68

**$\alpha$ :** 1.23

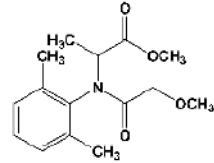
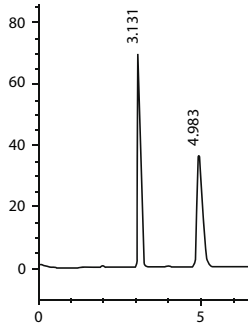
**Catalog #:** 1-783104-300





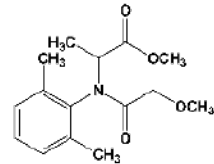
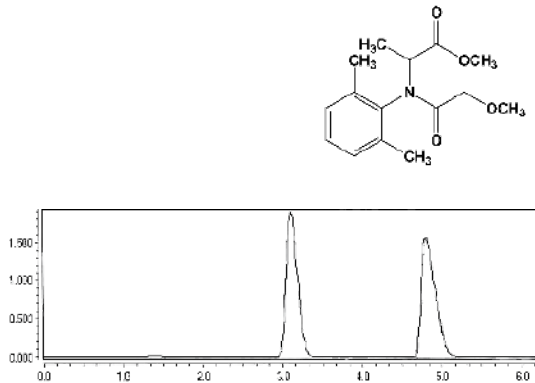
## Metalaxyl

**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



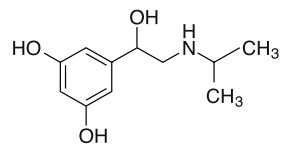
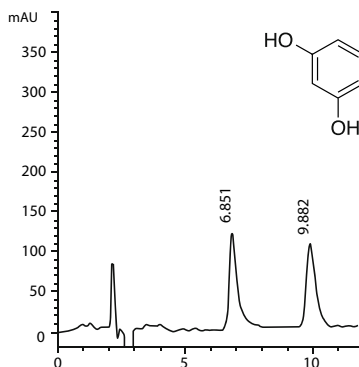
## Metalaxyl

**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (95/5)  
 $\text{CO}_2$ /IPA  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40°C  
**Pressure:** 125 bar  
**Detection:** UV 220 nm  
 **$k'$ :** 3.13  
 **$\alpha$ :** 1.72  
**Catalog #:** 1-784104-300



## Metaproterenol

**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  
 **$k'$ :** 3.57  
 **$\alpha$ :** 1.18  
**CAS #:** 586-06-1  
**Catalog #:** 1-783104-300



## 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

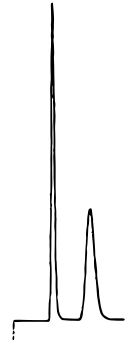
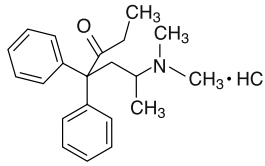
**Run Time:** 10.0 min

**k':** 3.50

**$\alpha$ :** 1.34

**Reference:** 46

**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

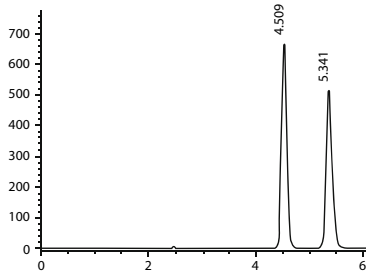
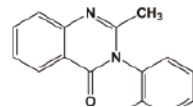
**Detection:** UV 254 nm

**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)

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

**Flow Rate:** 4.0 mL/min

**Temperature:** 40°C

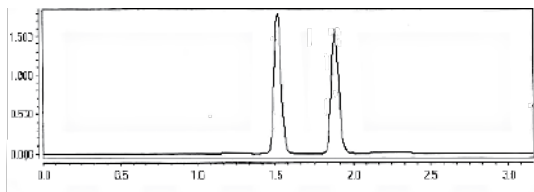
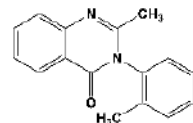
**Pressure:** 125 bar

**Detection:** UV 254 nm

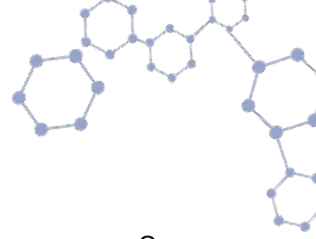
**k':** 1.02

**$\alpha$ :** 1.48

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

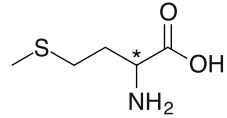
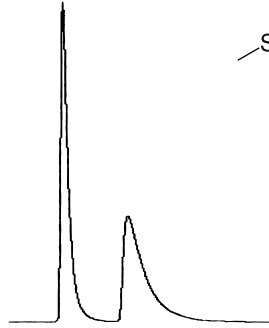






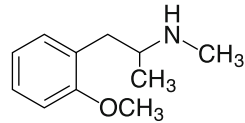
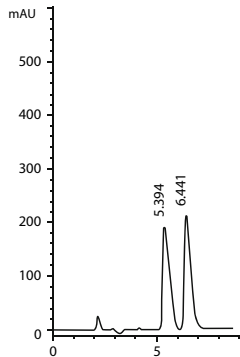
## Methionine

**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



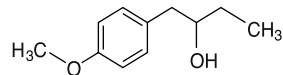
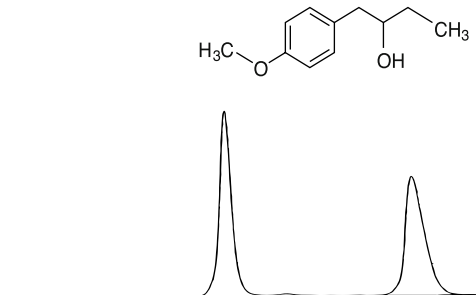
## Methoxyphenamine

**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (98/2)  
Hexane/IPA + 0.1% DEA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**k'**: 1.84  
 **$\alpha$** : 1.30  
**CAS #:** 93-30-1  
**Catalog #:** 1-784104-300



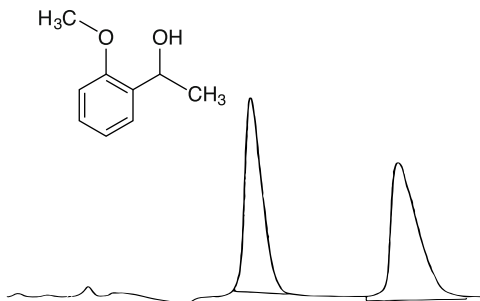
## 1-(4-Methoxyphenyl)-2-butanol

**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



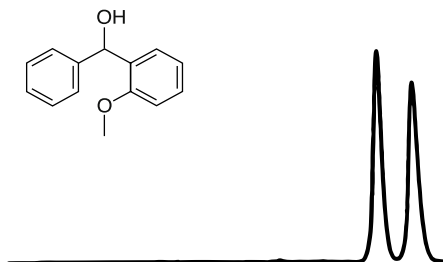
## 1-(o-Methoxyphenyl) Ethanol

**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



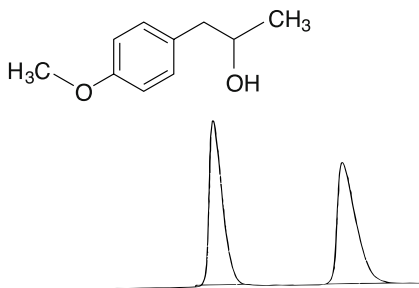
## 2-Methoxyphenyl Phenyl Carbinol

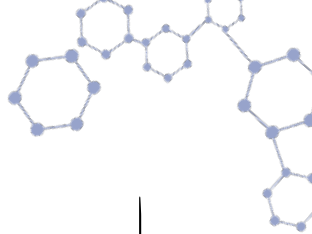
**Column:** (S,S) ULMO,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (99/1)  
Heptane/IPA  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 215 nm  
**Run Time:** 12.0 min  
**k':** 2.92  
 **$\alpha$ :** 1.13  
**Reference:** 48  
**Catalog #:** 1-787100-300



## 1-(4-Methoxyphenyl)-2-propanol

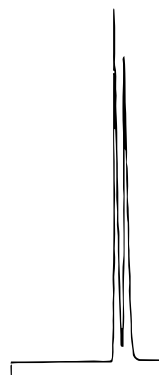
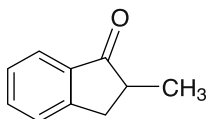
**Column:** (S,S) ULMO,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (98.5/1.5)  
n-Heptane/1,2-Dimethoxyethane  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 17.5 min  
**k':** 5.33  
 **$\alpha$ :** 1.28  
**Reference:** 60  
**Catalog #:** 1-787100-300





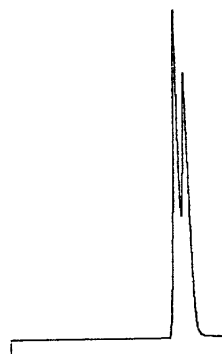
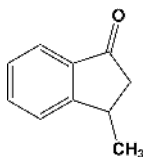
## 2-Methyl-1-Indanone

**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  
**Reference:** 18  
**Catalog #:** 1-780101-300,  
1-780201-300



## 3-Methyl-1-Indanone

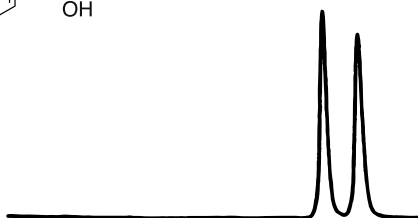
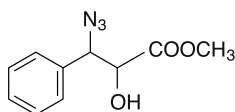
**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (99/1)  
Hexane/IPA  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**k':** 6.11  
 **$\alpha$ :** 1.18  
**Run Time:** 20 min  
**Catalog #:** 1-780101-300,  
1-780201-300



## Methyl 3-phenyl-3-azido-2-hydroxypropanoate

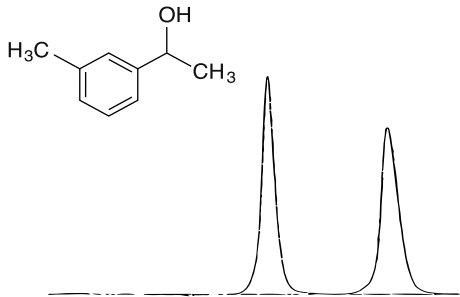
*Erythro*-diastereomer

**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:** 48  
**Catalog #:** 1-787100-300



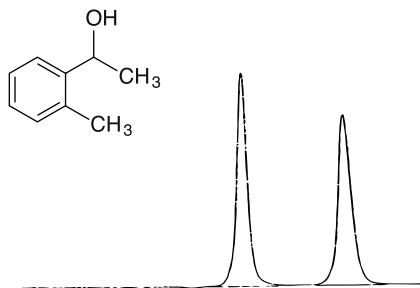
## 1-(m-Methylphenyl) Ethanol

**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:** 60  
**Catalog #:** 1-787100-300



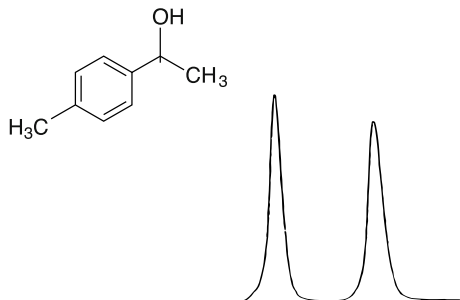
## 1-(o-Methylphenyl) Ethanol

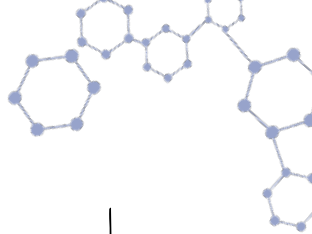
**Column:** (S,S) ULMO,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (98.5/1.5)  
n-Heptane/1,2-Dimethoxyethane  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 10.5 min  
**k':** 1.88  
 **$\alpha$ :** 1.29  
**Reference:** 60  
**Catalog #:** 1-787100-300



## 1-(p-Methylphenyl) Ethanol

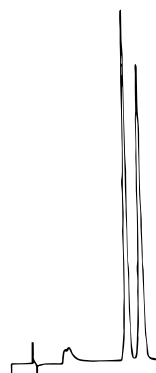
**Column:** (S,S) ULMO,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (98.5/1.5)  
n-Heptane/1,2-Dimethoxyethane  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 10.5 min  
**k':** 2.06  
 **$\alpha$ :** 1.21  
**Reference:** 60  
**Catalog #:** 1-787100-300





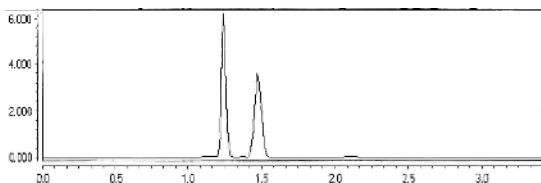
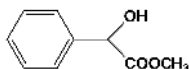
## Methyl Mandelate

**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (73/27)  
 $\text{H}_2\text{O}/\text{CH}_3\text{CN} + 0.1\% \text{HOAc}$   
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 20 min  
**k'**: 5.27  
 **$\alpha$** : 1.15  
**Reference:** 18  
**Catalog #:** 1-780101-300,  
1-780201-300



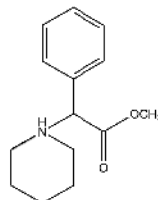
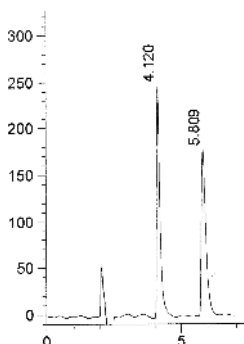
## Methyl Mandelate

**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
 $\text{CO}_2/\text{Ethanol}$   
**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



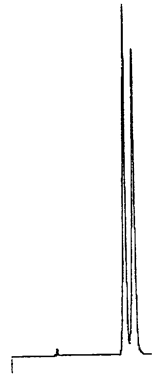
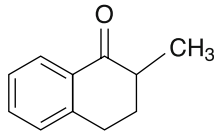
## Methylphenidate

**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

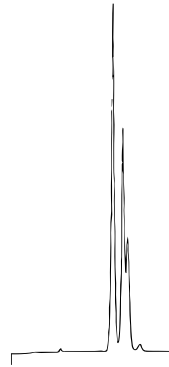
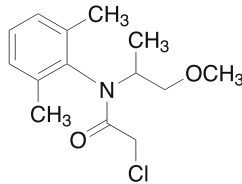
**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (99/1)  
Hexane/IPA  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 12 min  
**k':** 2.76  
 **$\alpha$ :** 1.11  
**Reference:** 18  
**Catalog #:** 1-780101-300,  
1-780201-300



## Metolachlor

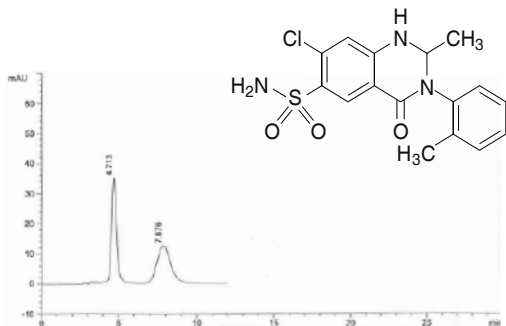
*Herbicide*

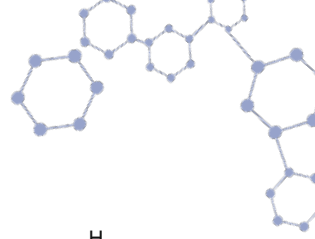
**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (98/2)  
Hexane/IPA  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 25 min  
**Reference:** 43  
**Catalog #:** 1-780101-300,  
1-780201-300



## Metolazone

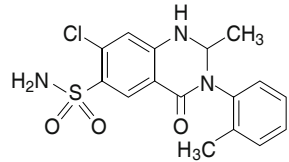
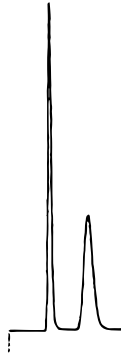
**Column:** (S,S) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** 100%  
Ethanol  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**k':** 1.44  
 **$\alpha$ :** 2.14  
**Catalog #:** 1-780101-300





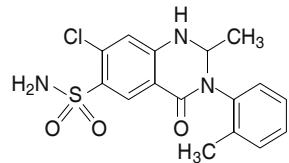
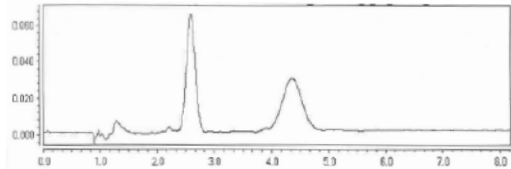
## Metolazone

**Column:** (R,R) Whelk-O 1,  
5  $\mu\text{m}$ , 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  
**Reference:** 46  
**Catalog #:** 1-780201-300



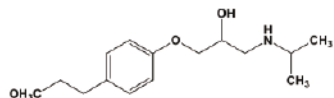
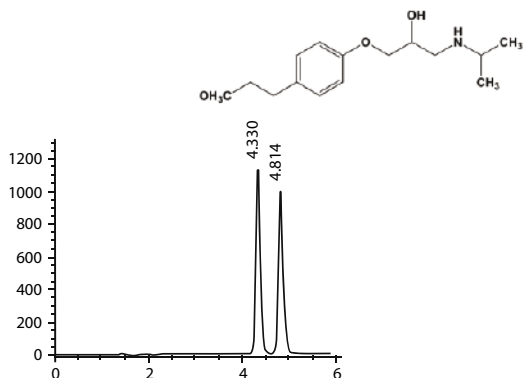
## Metolazone

**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°C  
**Pressure:** 125 bar  
**Detection:** UV 254 nm  
 **$k'$ :** 2.47  
 **$\alpha$ :** 1.95  
**Catalog #:** 1-780101-300



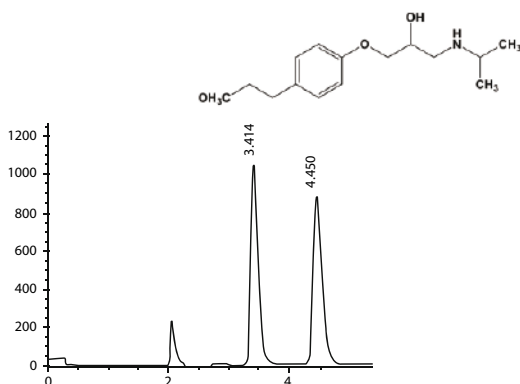
## Metoprolol

**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



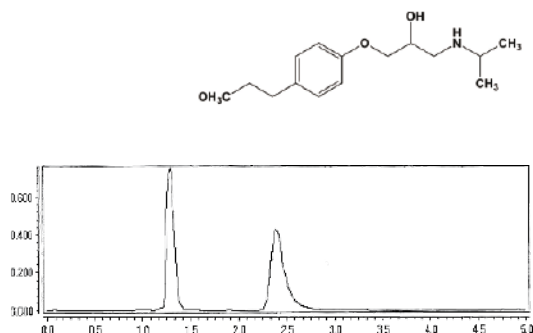
## Metoprolol

**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



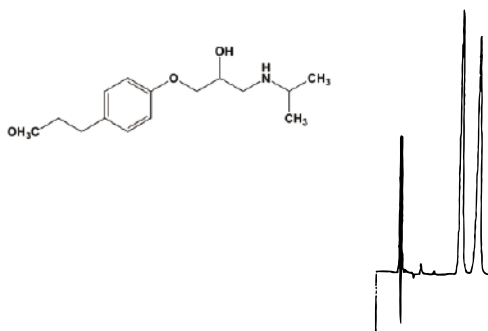
## Metoprolol

**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°C  
**Pressure:** 125 bar  
**Detection:** UV 280 nm  
**k':** 0.73  
 **$\alpha$ :** 3.00  
**Catalog #:** 1-784104-300

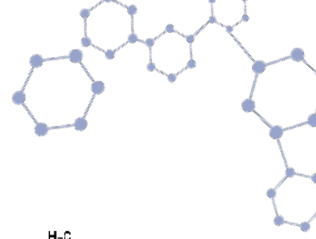


## Metoprolol

**Column:**  $\alpha$ -Burke 2,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (85/10/5)  
 $\text{CH}_2\text{Cl}_2$ /EtOH/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:** 33  
**Catalog #:** 1-735035-300,  
1-735037-300

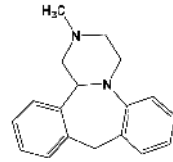
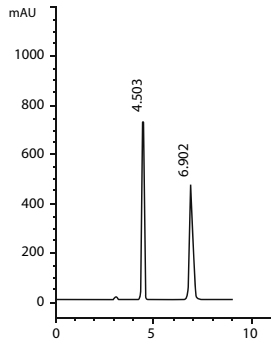






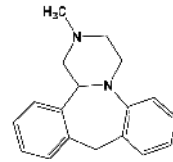
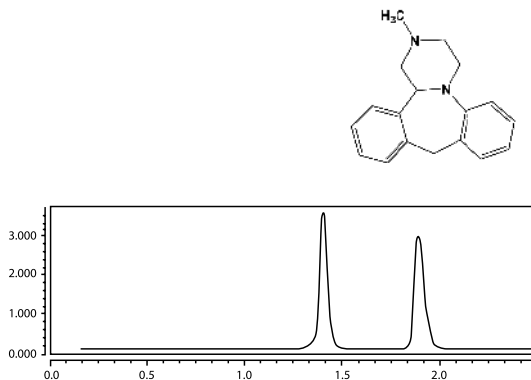
## Mianserin

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (95/5)  
Hexane/Ethanol + 0.1% DEA  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
 **$k'$ :** 0.55  
 **$\alpha$ :** 2.51  
**CAS #:** 24219-97-4  
**Catalog #:** 1-783104-300



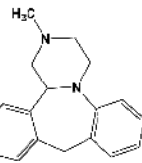
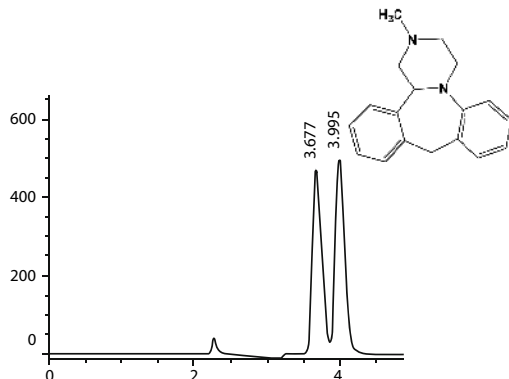
## Mianserin

**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  
**Temperature:** 40°C  
**Pressure:** 125 bar  
**Flow Rate:** 4.0 mL/min  
**Detection:** UV 220 nm  
 **$k'$ :** 0.86  
 **$\alpha$ :** 1.75  
**Catalog #:** 1-783104-300



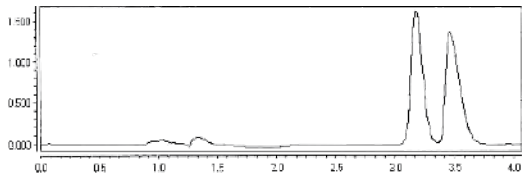
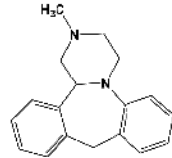
## Mianserin

**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (99/1)  
Hexane/Ethanol + 0.1% DEA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
 **$k'$ :** 0.94  
 **$\alpha$ :** 1.18  
**CAS #:** 24219-97-4  
**Catalog #:** 1-784104-300



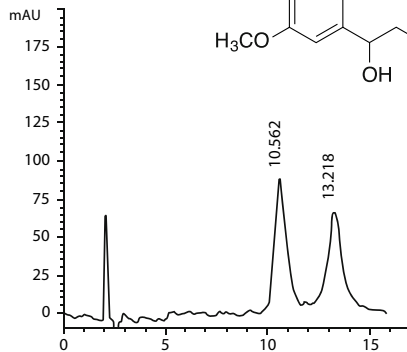
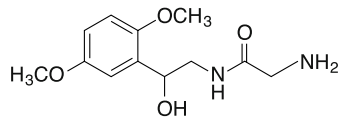
## Mianserin

**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°C  
**Pressure:** 125 bar  
**Detection:** UV 220 nm  
**k':** 3.24  
 **$\alpha$ :** 1.12  
**Catalog #:** 1-784104-300



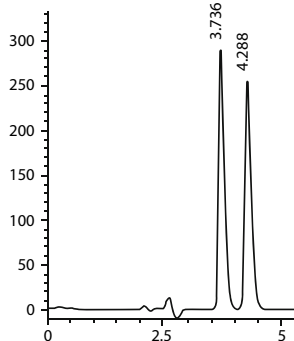
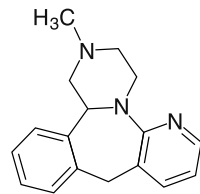
## Midodrine

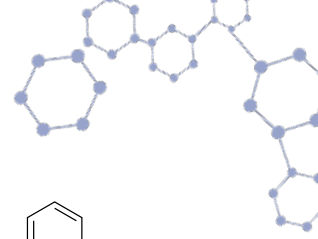
**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (80/20)  
Hexane/Ethanol + 0.1% DEA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
**k':** 4.57  
 **$\alpha$ :** 1.30  
**CAS #:** 42794-76-3  
**Catalog #:** 1-783104-300



## Mirtazapine

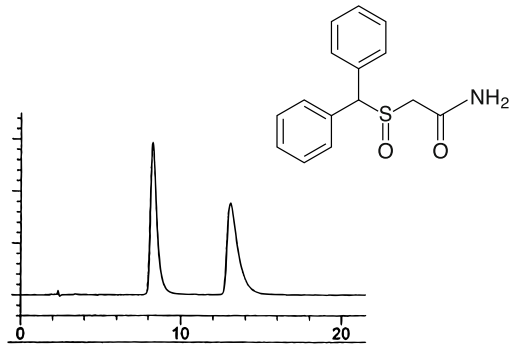
**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
Hexane/IPA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**k':** 0.94  
 **$\alpha$ :** 1.30  
**CAS #:** 85650-52-8  
**Catalog #:** 1-784104-300





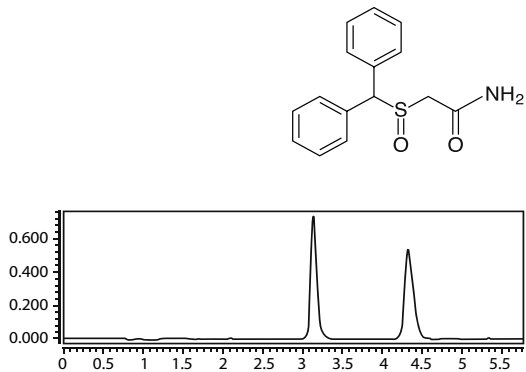
## Modafinil

**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  
**Reference:** 46  
**Catalog #:** 1-786615-300



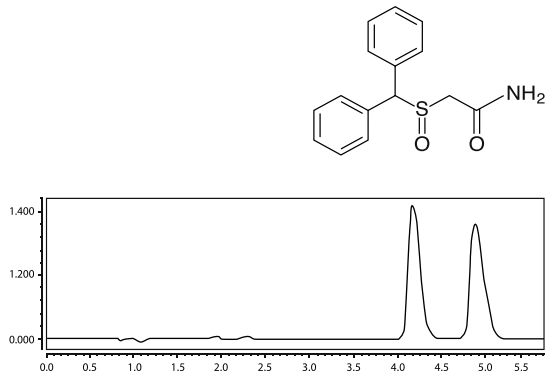
## Modafinil

**Column:** (S,S) Whelk -O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (70/30)  
 $\text{CO}_2/\text{CH}_3\text{OH}$   
**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)  
 $\text{CO}_2/\text{Ethanol}$   
**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

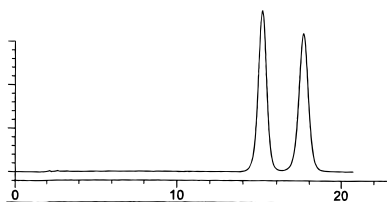
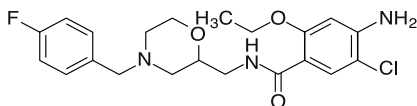
**Detection:** UV 254 nm

**k'**: 7.37

**$\alpha$** : 1.19

**Reference:** 46

**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

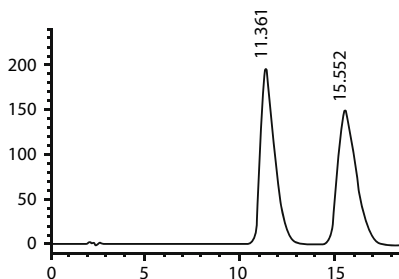
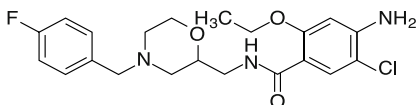
**Detection:** UV 254 nm

**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)

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

+ 10 mM Ammonium Acetate

**Flow Rate:** 1.5 mL/min

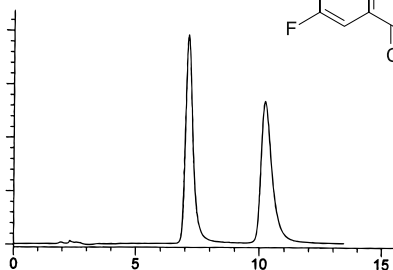
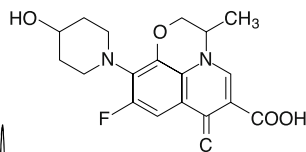
**Detection:** UV 254 nm

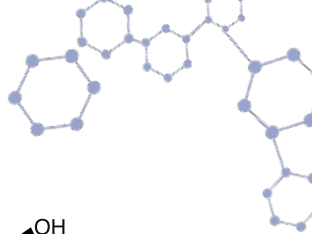
**k'**: 2.95

**$\alpha$** : 1.58

**Reference:** 46

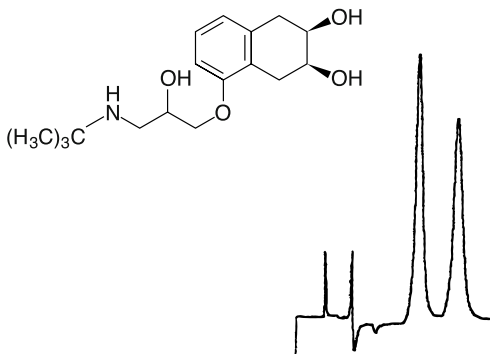
**Catalog #:** 1-786615-300





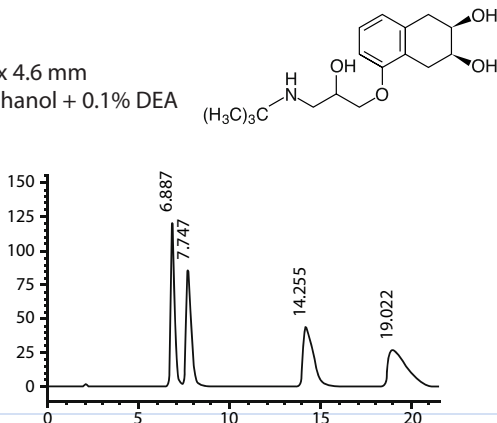
## Nadolol

**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'**: 3.05  
 **$\alpha$** : 1.43  
**Reference:** 46  
**Catalog #:** 1-786615-300



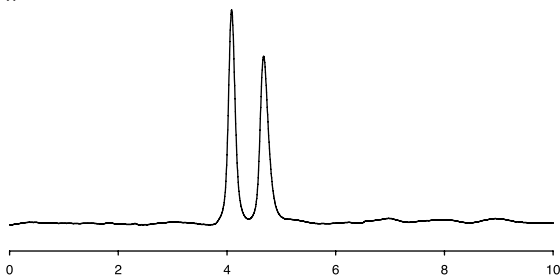
## Nadolol

**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'**: 2.62  
**k'**: 3.08  
 **$\alpha$** : 1.17  
**k'**: 6.50  
**k'**: 9.01  
 **$\alpha$** : 1.39  
**CAS #:** 44200-33-9  
**Catalog #:** 1-783104-300



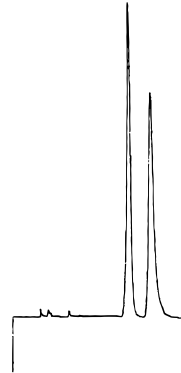
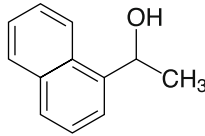
## DL-Nal

**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



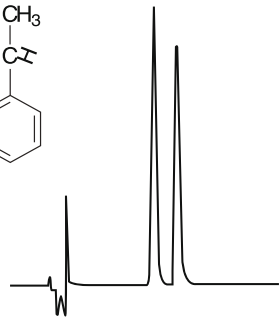
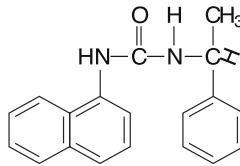
## $\alpha$ -Naphthyl Methyl Carbinol

**Column:** (R,R) ULMO,  
5  $\mu$ 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



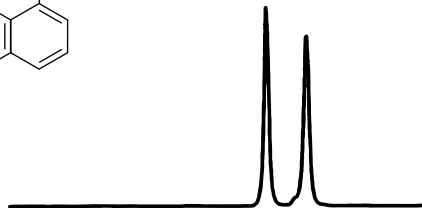
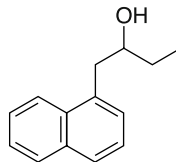
## 1-Naphthylureaphenethylamine

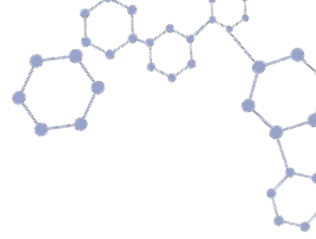
**Column:** D-Phenyglycine,  
5  $\mu$ m, 25 cm x 4.6 mm  
**Mobile Phase:** (70/30)  
Hexane/EtOH  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 10 min  
**k':** 2.37  
 **$\alpha$ :** 1.22  
**Catalog #:** 1-731031-300



## 1-Naphthyl-2-butanol

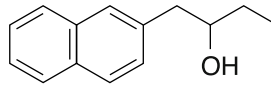
**Column:** (S,S) ULMO,  
5  $\mu$ m, 25 cm x 4.6 mm  
**Mobile Phase:** (95/5)  
Heptane/IPA  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 215 nm  
**Run Time:** 6 min  
**k':** 0.80  
 **$\alpha$ :** 1.35  
**Reference:** 48  
**Catalog #:** 1-787100-300





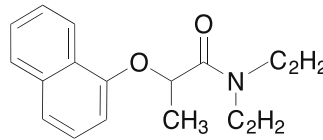
## 2-Naphthyl-2-butanol

**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:** 48  
**Catalog #:** 1-787100-300



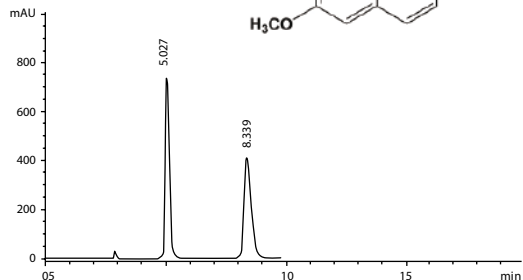
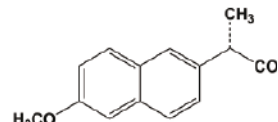
## Napropamide (Devrinol)

**Column:** Whelk-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  
**Reference:** 10.14  
**Catalog #:** 1-780101-300,  
1-780201-300



## Naproxen

**Column:** (S,S) Whelk-O 1,  
5  $\mu\text{m}$ , 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

Normal Phase

**Column:** (R,R) Whelk-O 1,  
5  $\mu\text{m}$ , 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

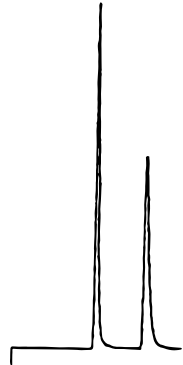
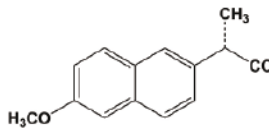
**Run Time:** 10.5 min

**k':** 1.40

**$\alpha$ :** 2.03

**Reference:** 46

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



## Naproxen

Extract from Aleve tablet (99.4% ee)

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

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

Hexane/IPA + 0.5 % HOAc

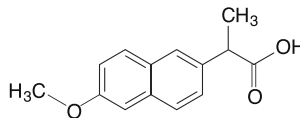
**Flow Rate:** 2.0 mL/min

**Detection:** UV 254 nm

**Run Time:** 10 min

**Sample prep:** 1/2 tablet partitioned between 1M HCl (2 mL) and  $\text{CH}_2\text{Cl}_2$  (5 mL) with sonication.  $\text{CH}_2\text{Cl}_2$  layer filtered through glass wool and injected

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



## Naproxen

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

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

$\text{CO}_2$ /Ethanol + 0.5% Acetic Acid

**Flow Rate:** 4.0 mL/min

**Temperature:** 40°C

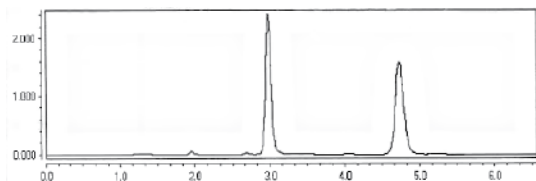
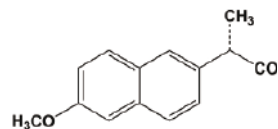
**Pressure:** 125 bar

**Detection:** UV 254 nm

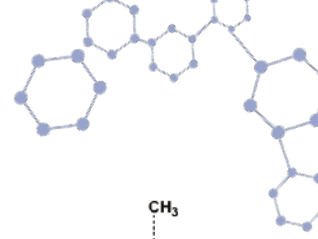
**k':** 2.97

**$\alpha$ :** 1.79

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

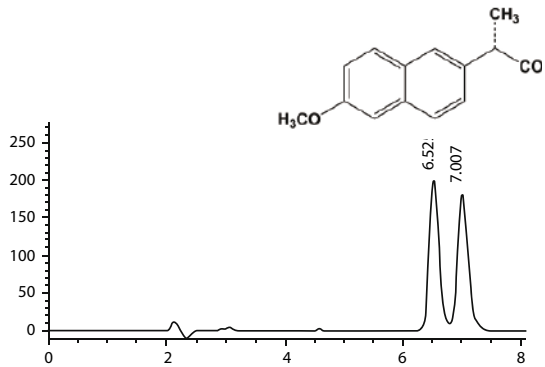






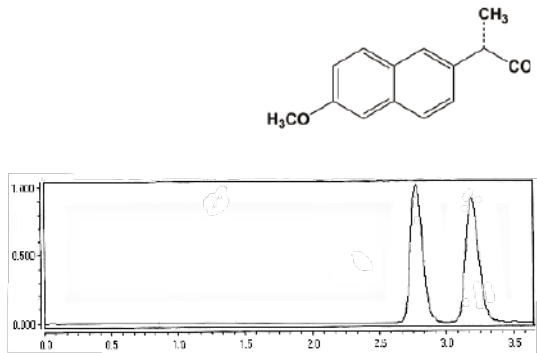
## Naproxen

**Column:** RegisPack,  
5  $\mu$ m, 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
Hexane/IPA + 0.1%TFA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**k'**: 2.43  
 **$\alpha$ :** 2.69  
**CAS #:** 22204-53-1  
**Catalog #:** 1-783104-300



## Naproxen

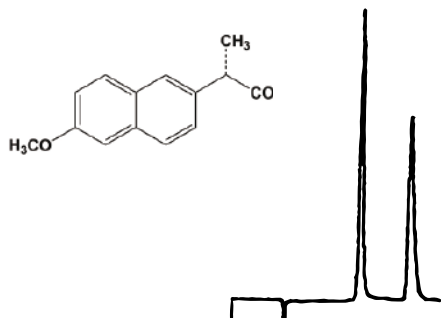
**Column:** RegisPack,  
5  $\mu$ m, 25 cm x 4.6 mm  
**Mobile Phase:** (85/15)  
CO<sub>2</sub>/CH<sub>3</sub>OH + 0.5% DEA  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40°C  
**Pressure:** 125 bar  
**Detection:** UV 254 nm  
**k'**: 2.71  
 **$\alpha$ :** 1.20  
**Catalog #:** 1-783104-300



## Naproxen

*Reversed Phase*

**Column:** (R,R) Whelk-O 1,  
5  $\mu$ m, 25 cm x 4.6 mm  
**Mobile Phase:** (80/20)  
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:** 10.0 min  
**k'**: 1.63  
 **$\alpha$ :** 1.64  
**Reference:** 46  
**Catalog #:** 1-780201-300



## Naproxen

R:S=30:70

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

5  $\mu$ 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

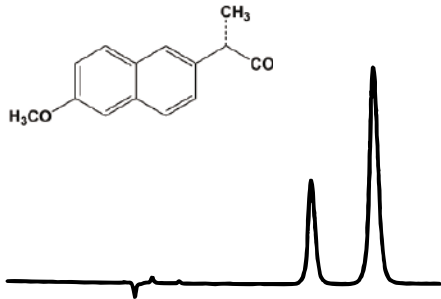
**Run Time:** 8.5 min

**k':** 1.54

**$\alpha$ :** 1.34

**Reference:** 48

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



## Naproxen

*Semi-prep on Analytical Column*

**Column:** Whelk-O 1,

5  $\mu$ 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

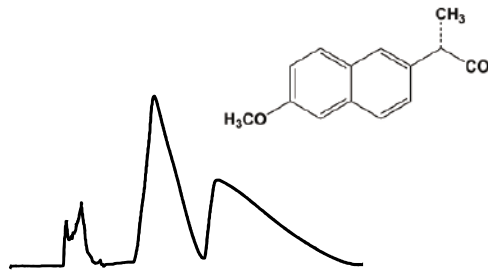
**Run Time:** 18 min

**Reference:** 6

**Sample Prep:** Inject 400  $\mu$ l

@ 31.5 mg/ml = 12.6 mg

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



## Naproxen Diisopropyl Amide

**Column:** Whelk-O 1,

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

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

Hexane/EtOH

**Flow Rate:** 1.0 mL/min

**Detection:** UV 254 nm

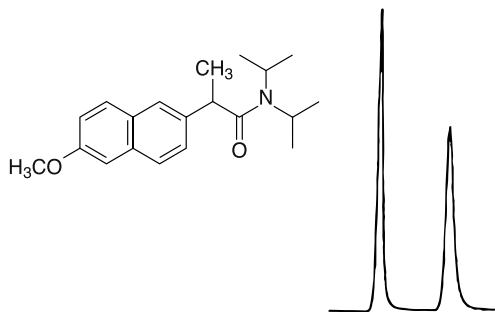
**k':** 2.23

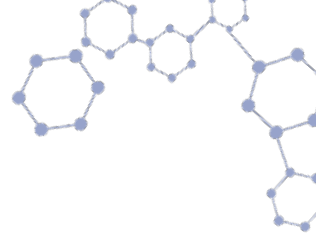
**$\alpha$ :** 1.53

**Reference:** 26

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

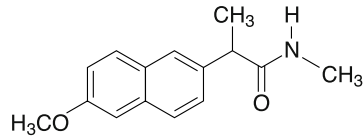
1-780201-300





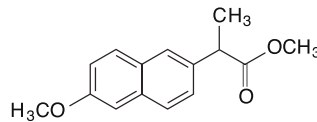
## Naproxen Methyl Amide

**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



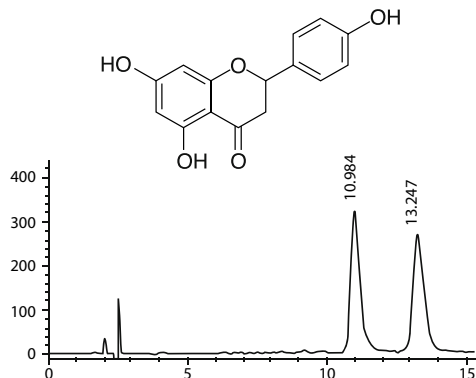
## Naproxen Methyl Ester

**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



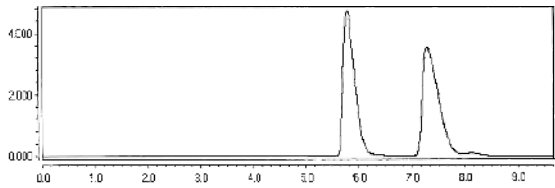
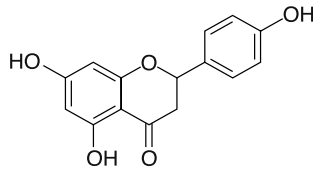
## Naringenin

**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



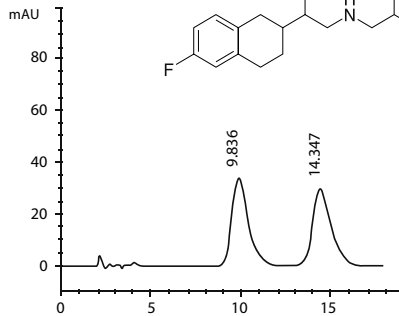
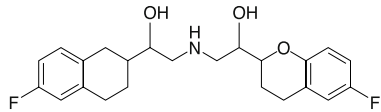
## Naringenin

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (70/30)  
 $\text{CO}_2/\text{CH}_3\text{OH}$   
**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



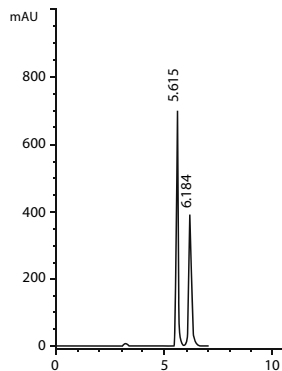
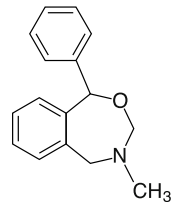
## Nebivolol

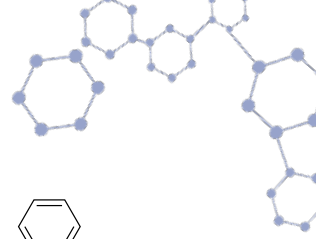
**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
Hexane/Ethanol + 0.1% TFA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 280 nm  
**k':** 4.18  
 **$\alpha$ :** 1.57  
**CAS #:** 99200-09-6  
**Catalog #:** 1-783104-300



## Nefopam

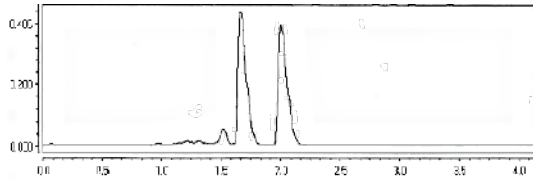
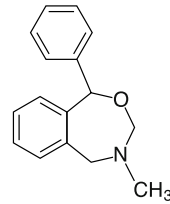
**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (95/5)  
Hexane/IPA + 0.1% DEA  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**k':** 0.94  
 **$\alpha$ :** 1.21  
**CAS #:** 13669-70-0  
**Catalog #:** 1-783104-300





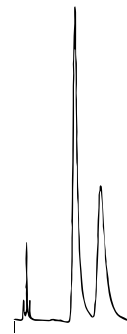
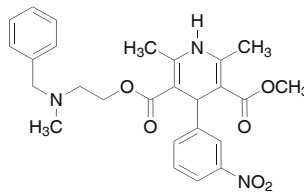
## Nefopam

**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°C  
**Pressure:** 125 bar  
**Detection:** UV 254 nm  
 **$k'$ :** 1.22  
 **$\alpha$ :** 1.37  
**Catalog #:** 1-783104-300



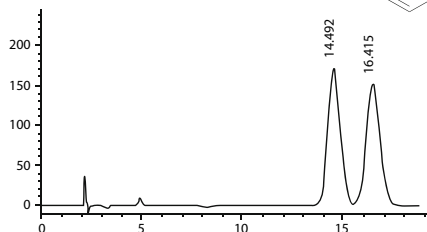
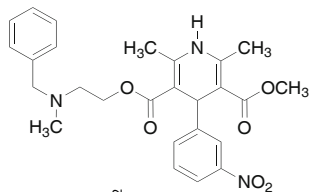
## Nicardipine

**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  
**Reference:** 18  
**Catalog #:** 1-780101-300,  
1-780201-300



## Nicardipine

**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 254 nm  
 **$k'$ :** 6.63  
 **$\alpha$ :** 1.15  
**CAS #:** 55985-32-5  
**Catalog #:** 1-783104-300



## Nimodipine

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

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

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

Methanol/H<sub>2</sub>O

**Flow Rate:** 1.0 mL/min

**Detection:** UV 254 nm

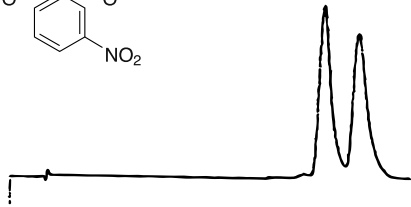
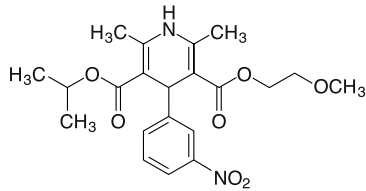
**Run Time:** 31.0 min

**k'**: 9.25

**$\alpha$** : 1.13

**Reference:** 46

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



## 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

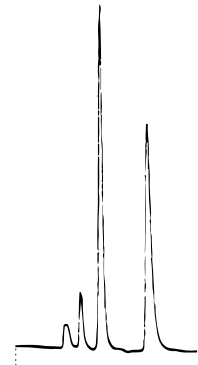
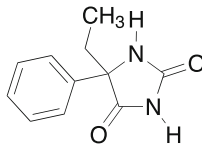
**k'**: 1.50

**$\alpha$** : 2.57

**Reference:** 31

**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

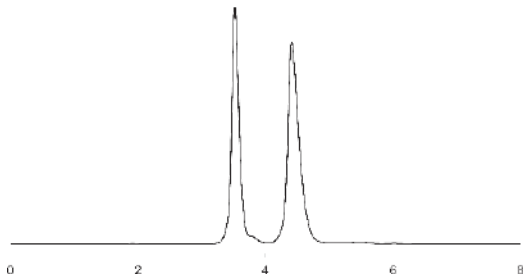
**Detection:** UV 210 nm

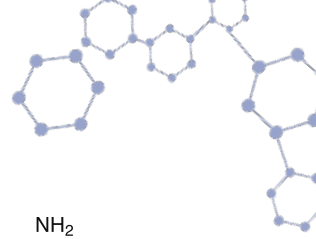
**Temperature:** 40°C

**k'**: 1.91

**$\alpha$** : 1.51

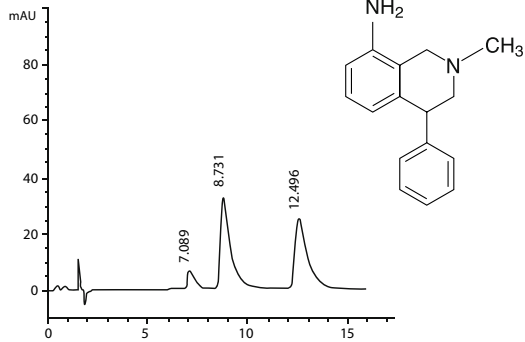
**Catalog #:** 1-788001-300





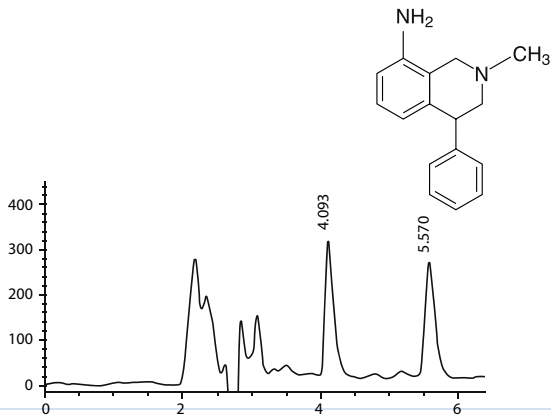
## Nomifensine

**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



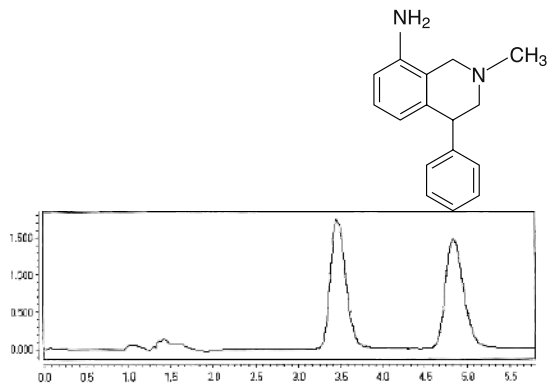
## Nomifensine

**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



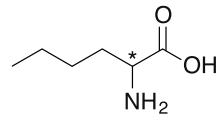
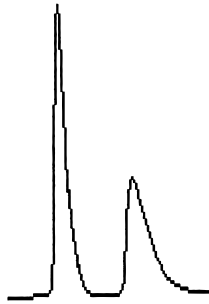
## Nomifensine

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (70/30)  
 $\text{CO}_2$ /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



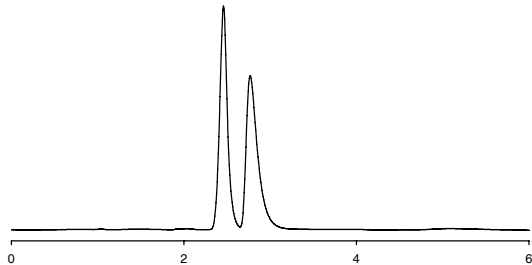
## Norleucine

**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



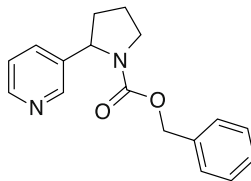
## DL-Norleucine

**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

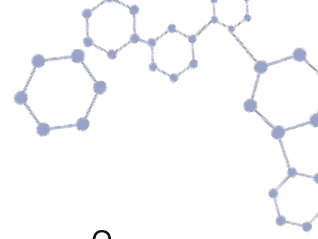


## CBZ Nornicotine

**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

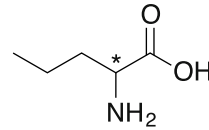
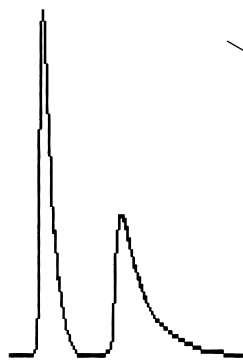






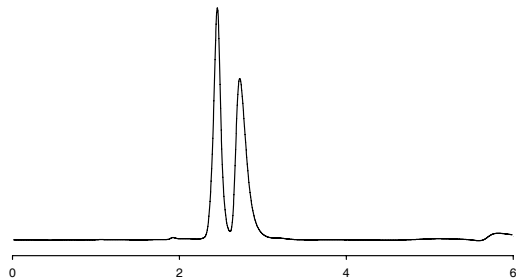
## Norvaline

**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'**<sub>1</sub>: 1.15  
**k'**<sub>2</sub>: 2.05  
 **$\alpha$** : 1.79  
**Catalog #:** 1-799001-300,  
1-799101-300



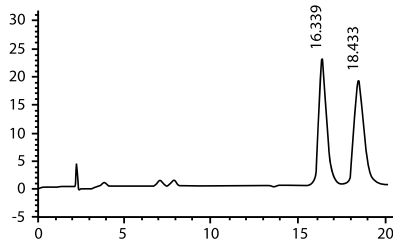
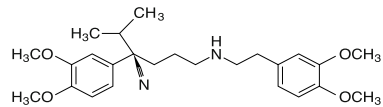
## DL-Norvaline

**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



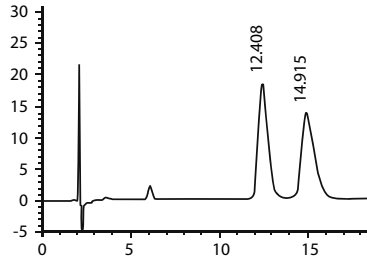
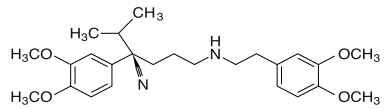
## Norverapamil

**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'**<sub>1</sub>: 7.47  
 **$\alpha$** : 1.15  
**CAS #:** 67812-42-4  
**Catalog #:** 1-783104-300



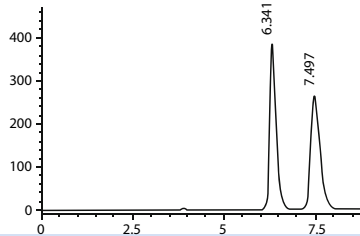
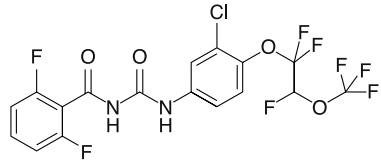
## Norverapamil

**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



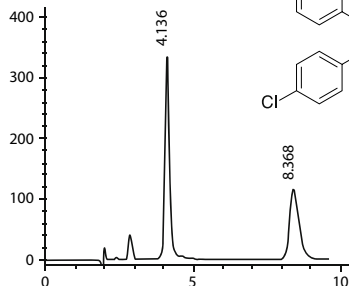
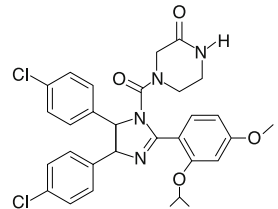
## Novaluron

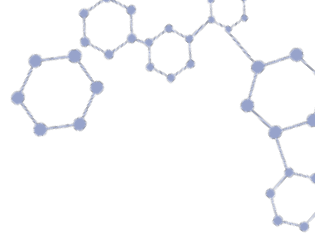
**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (92/8)  
Hexane/Ethanol  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**k':** 2.29  
 **$\alpha$ :** 1.26  
**CAS #:** 116714-46-6  
**Catalog #:** 1-783104-300



## Nutlin-3

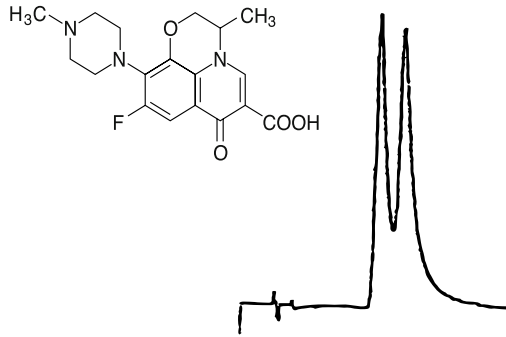
**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** 100%  
Methanol  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**k':** 1.14  
 **$\alpha$ :** 2.93  
**CAS #:** 548472-68-0  
**Catalog #:** 1-780101-300,  
1-780201-300





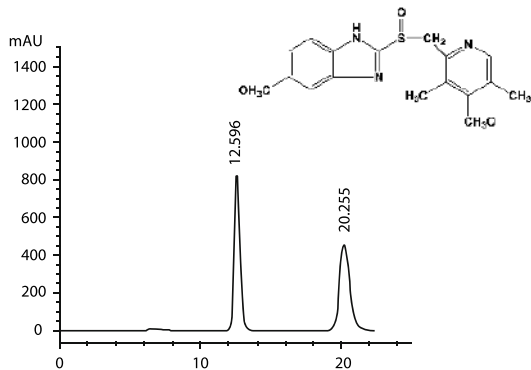
## Ofloxacin

**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  
**Reference:** 46  
**Catalog #:** 1-786615-300



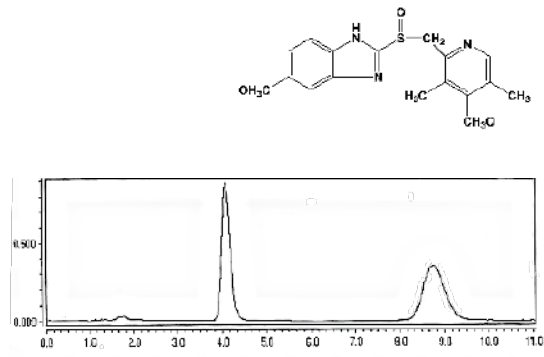
## Omeprazole

**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)  
 $\text{CO}_2$ /CH<sub>3</sub>OH  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40°C  
**Pressure:** 125 bar  
**Detection:** UV 302 nm  
**k'**: 4.43  
 **$\alpha$ :** 2.41  
**Catalog #:** 1-783104-300



## 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

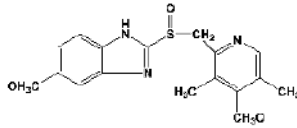
**Run Time:** 8.0 min

**$k'$ :** 0.64

**$\alpha$ :** 3.04

**Reference:** 46

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



## 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

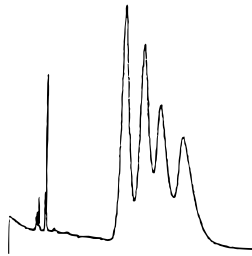
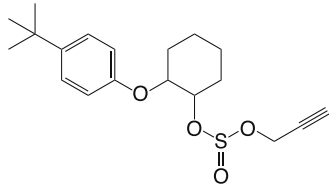
**Detection:** UV 254 nm

**Run Time:** 25 min

**Reference:** 43

**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

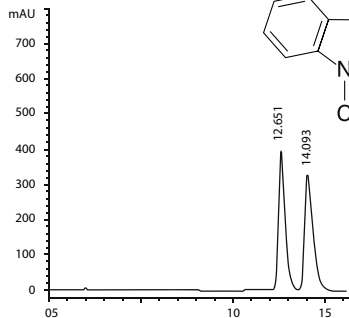
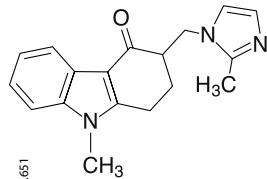
**Detection:** UV 254 nm

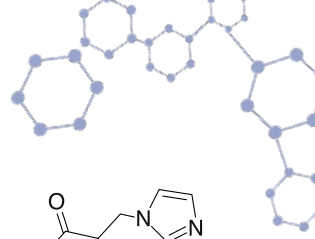
**$k'$ :** 5.66

**$\alpha$ :** 1.13

**CAS #:** 99614-02-5

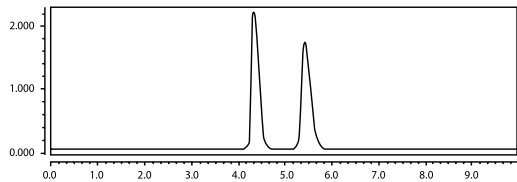
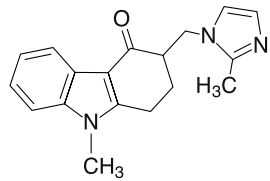
**Catalog #:** 1-783104-300





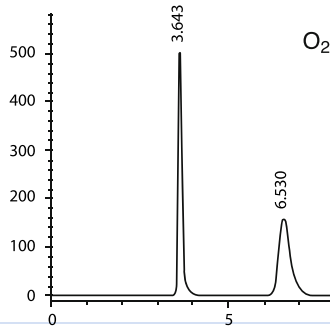
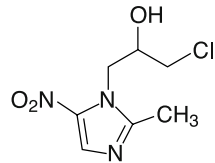
## Ondansetron

**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°C  
**Pressure:** 125 bar  
**Detection:** UV 254 nm  
 **$k'$ :** 4.71  
 **$\alpha$ :** 1.30  
**Catalog #:** 1-783104-300



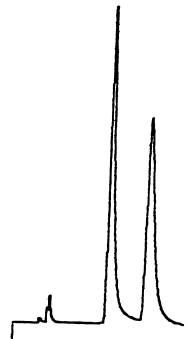
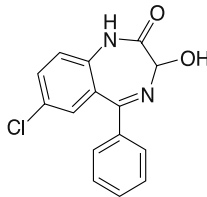
## Ornidazole

**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



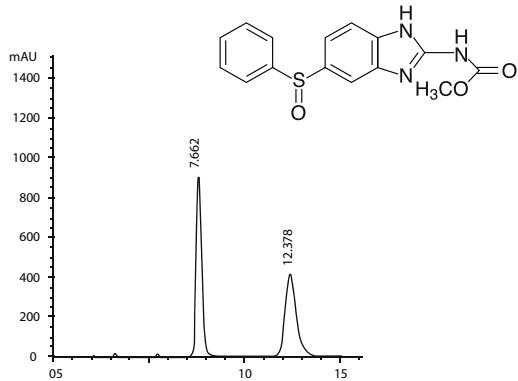
## Oxazepam

**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  
**Reference:** 46  
**Catalog #:** 1-780201-300



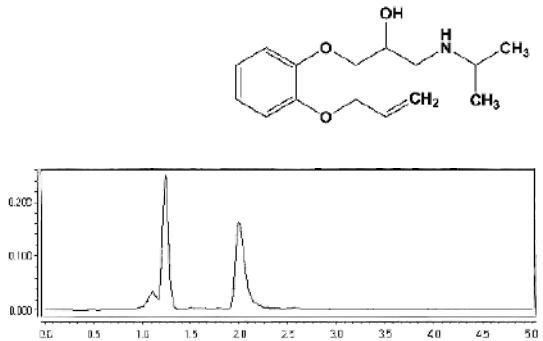
## Oxfendazole

**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



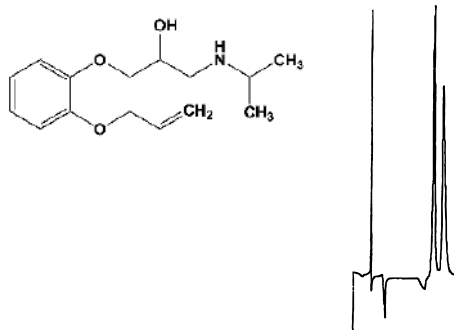
## Oxprenolol

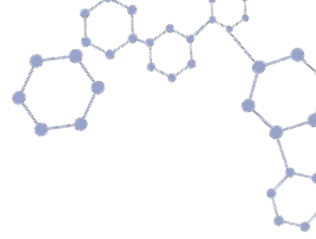
**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (70/30)  
CO<sub>2</sub>/IPA + 0.5% DEA  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40°C  
**Pressure:** 125 bar  
**Detection:** UV 254 nm  
**k'**: 0.66  
 **$\alpha$ :** 2.54  
**Catalog #:** 1-784104-300



## Oxprenolol

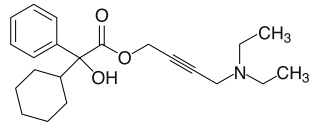
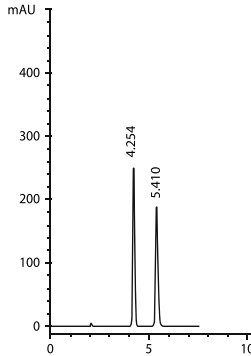
**Column:** (3R,4S) Pirkle 1-J,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
CH<sub>2</sub>Cl<sub>2</sub>/Ethanol + 0.015M  
Ammonium Acetate  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 13.5 min  
**k'**: 3.55  
 **$\alpha$ :** 1.15  
**Reference:** 46  
**Catalog #:** 1-731044-300





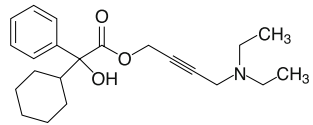
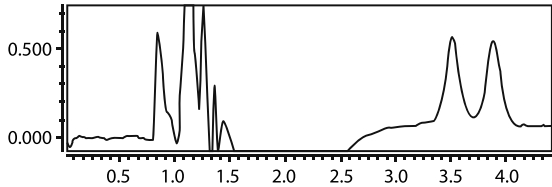
## Oxybutynin

**Column:** RegisPack,  
5  $\mu$ 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>:** 1.24  
 **$\alpha$ <sub>1</sub>:** 1.49  
**CAS #:** 5633-20-5  
**Catalog #:** 1-783104-300



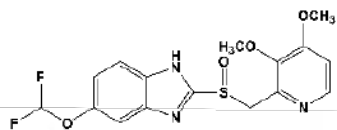
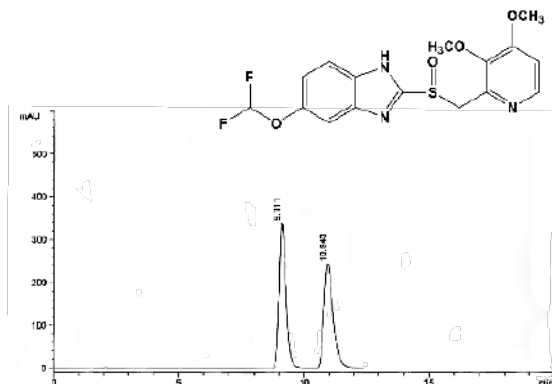
## Oxybutynin

**Column:** RegisPack,  
5  $\mu$ m, 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
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'<sub>1</sub>:** 3.68  
 **$\alpha$ <sub>1</sub>:** 1.13  
**Catalog #:** 1-783104-300



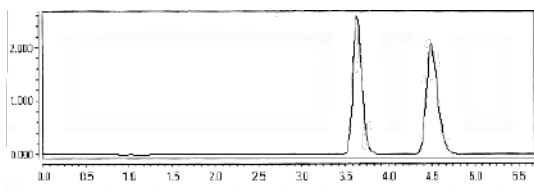
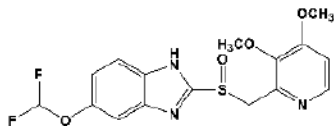
## Pantoprazole

**Column:** RegisPack,  
5  $\mu$ m, 25 cm x 4.6 mm  
**Mobile Phase:** (75/25)  
Hexane/Ethanol  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 280 nm  
**k'<sub>1</sub>:** 3.8  
 **$\alpha$ <sub>1</sub>:** 1.25  
**Catalog #:** 1-783104-300



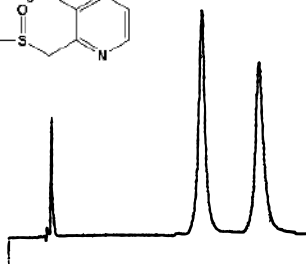
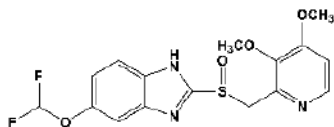
## Pantoprazole

**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:** 125 bar  
**Detection:** UV 280 nm  
**k'**: 3.86  
 **$\alpha$** : 1.30  
**Catalog #:** 1-783104-300



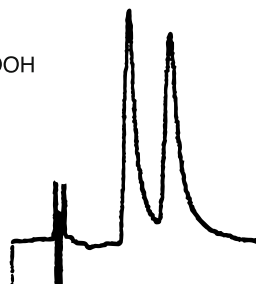
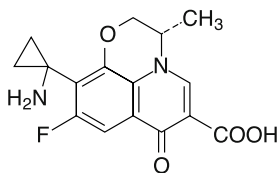
## Pantoprazole

**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  
**Reference:** 46  
**Catalog #:** 1-735035-300

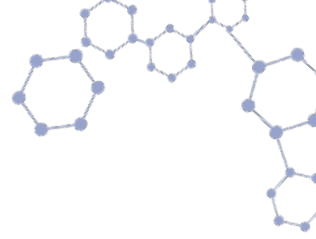


## Pazufloxacin

**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  
**Reference:** 46  
**Catalog #:** 1-786615-300

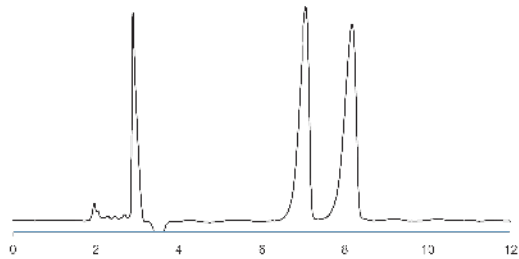






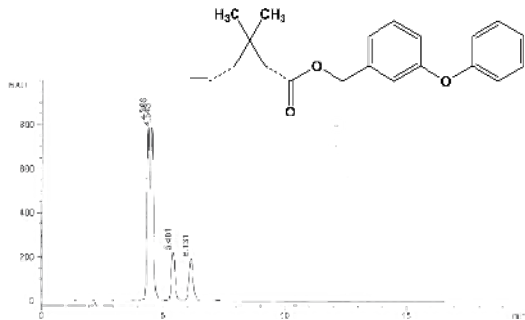
## DL-Penicillamine

**Column:** ChiroSil ME RCA(+),  
5  $\mu\text{m}$ , 15 cm x 4.6 mm  
**Mobile Phase:** (10/90)  
10 mM  $\text{H}_2\text{SO}_4$  aq./Acetonitrile  
**Flow Rate:** 0.8 mL/min  
**Detection:** UV 210 nm  
**Temperature:** 15°C  
**Catalog #:** 1-788001-300



## Permethrin

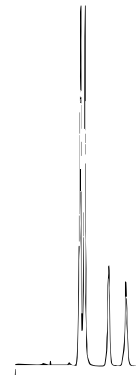
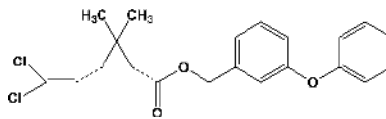
**Column:** (S,S) Whelk-O 1, 5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
Hexane/IPA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**k'1:** 1.28  
**k'2:** 1.35  
**k'3:** 1.80  
**k'4:** 2.18  
 **$\alpha_{1,2}$ :** 1.06  
 **$\alpha_{3,4}$ :** 1.21  
**Catalog #:** 1-780101-300



## Permethrin

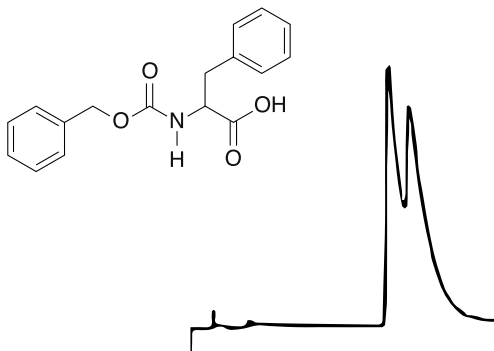
*Insecticide*

**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'1:** 4.83 cis; 7.46 trans  
 **$\alpha$ :** 1.11 cis; 1.24 trans  
**Run Time:** 16 min  
**Reference:** 43  
**Catalog #:** 1-780101-300, 1-780201-300



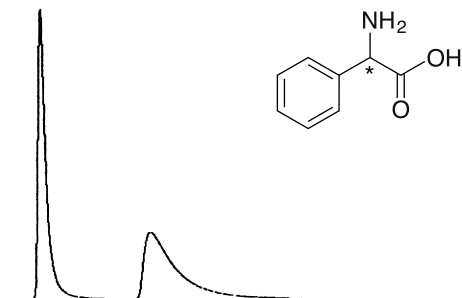
## CBZ-Phe

**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':** 10.2  
 **$\alpha$ :** 1.20  
**Reference:** 18  
**Catalog #:** 1-780101-300,  
1-780201-300



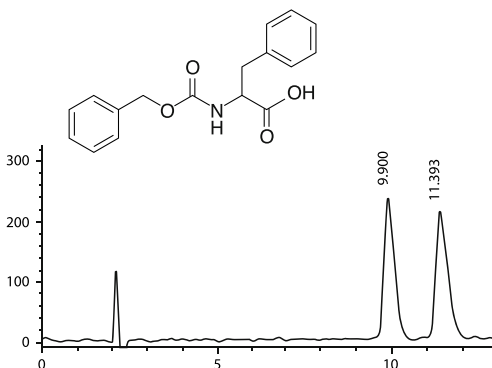
## Phenylalanine

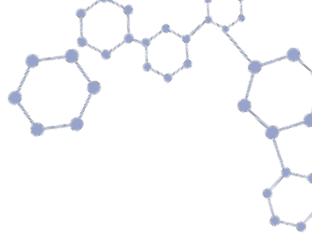
**Column:** ChiroSil,  
5  $\mu\text{m}$ , 15 cm x 4.6 mm  
**Mobile Phase:** (70/30)  
MeOH/H<sub>2</sub>O in 10 mM Acetic Acid  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 210 nm  
**Temperature:** 20°C  
**Run Time:** 8.9 min  
**k':** 2.66  
**k':** 6.84  
 **$\alpha$ :** 2.57  
**Catalog #:** 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-Phenylalaine

**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

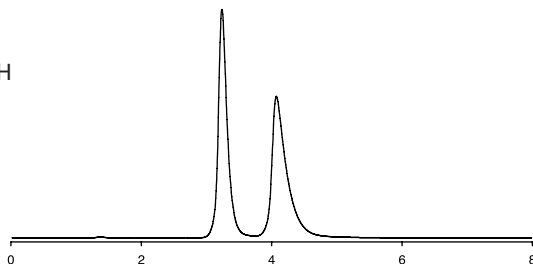
**Detection:** UV 210 nm

**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

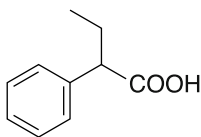
**Run Time:** 6.5 min

**k'**: 3.19

**$\alpha$** : 1.16

**Reference:** 48

**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

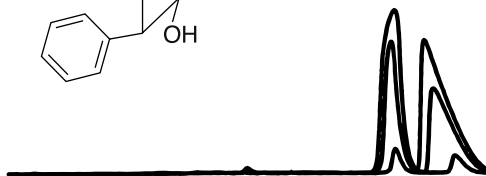
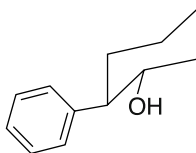
**Flow Rate:** 1.0 mL/min

**Detection:** UV 270 nm

**Run Time:** 7.0 min

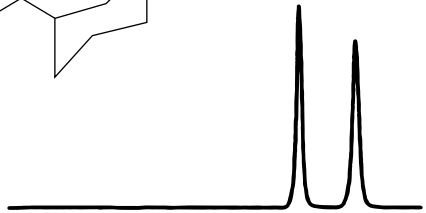
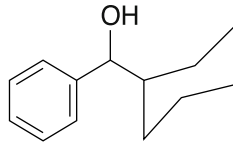
**Reference:** 48

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



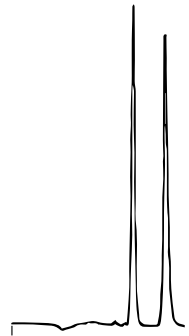
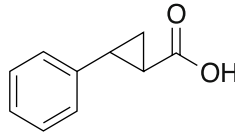
## Phenyl Cyclohexyl Carbinol

**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:** 48  
**Catalog #:** 1-787100-300



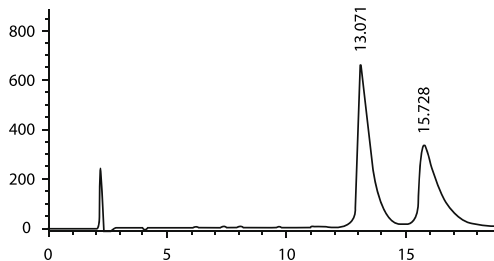
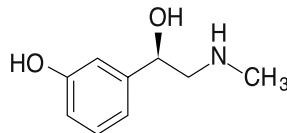
## 2-Phenylcyclopropane Carboxylate

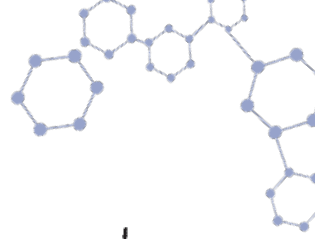
**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (99/1)  
Hexane/IPA  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 220 nm  
**Run Time:** 18 min  
**k':** 4.19  
 **$\alpha$ :** 1.34  
**Reference:** 18  
**Catalog #:** 1-780101-300,  
1-780201-300



## Phenylephrine

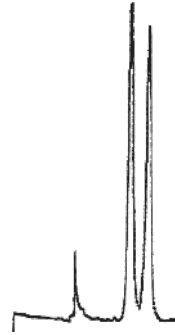
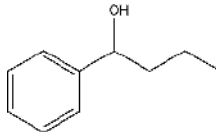
**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (92/8)  
Hexane/Ethanol + 0.1% TFA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
**k':** 5.88  
 **$\alpha$ :** 1.24  
**CAS #:** 61-76-7  
**Catalog #:** 1-783104-300





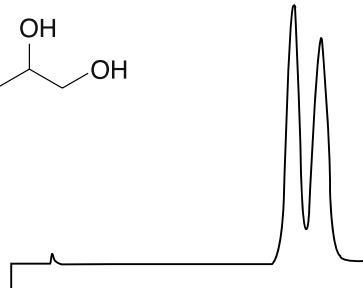
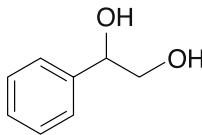
## Phenyl Ethyl Carbinol

**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  
**Reference:** 46  
**Catalog #:** 1-787200-300



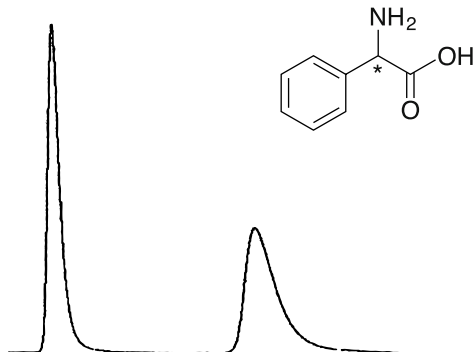
## Phenylethylene Glycol

**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



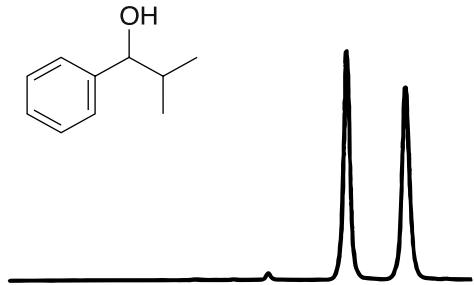
## Phenylglycine

**Column:** ChiroSil,  
5  $\mu\text{m}$ , 15 cm x 4.6 mm  
**Mobile Phase:** (70/30)  
CH<sub>3</sub>OH/H<sub>2</sub>O  
+10 mM H<sub>2</sub>SO<sub>4</sub> 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



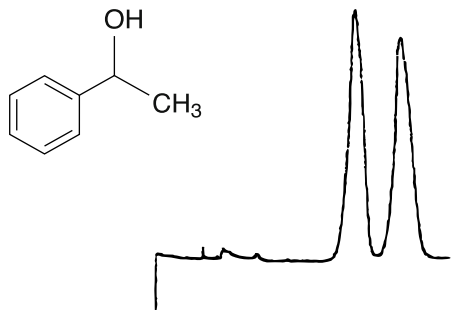
## Phenyl Isopropyl Carbinol

**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:** 48  
**Catalog #:** 1-787100-300



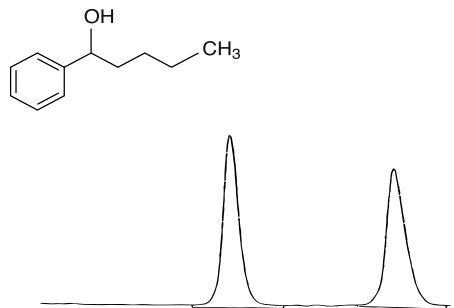
## Phenyl Methyl Carbinol

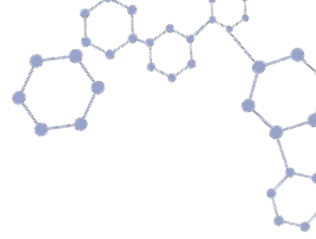
**Column:** (R,R) ULMO,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** 100%  
Hexane  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 14 min  
**k':** 3.11  
 **$\alpha$ :** 1.30  
**Reference:** 46  
**Catalog #:** 1-787200-300



## 1-Phenylpentanol

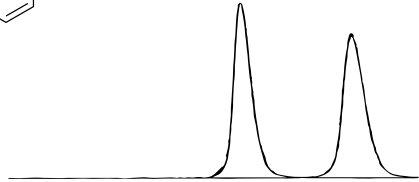
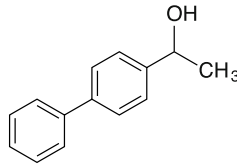
**Column:** (S,S) ULMO,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (99/1)  
n-Heptane/1,2-Dimethoxyethane  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 7.0 min  
**k':** 1.65  
 **$\alpha$ :** 1.45  
**Reference:** 60  
**Catalog #:** 1-787100-300





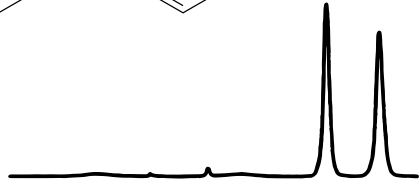
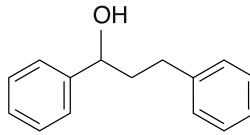
## 1-[(4-Phenyl) phenyl] Ethanol

**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:** 60  
**Catalog #:** 1-787100-300



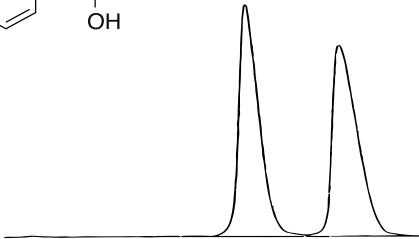
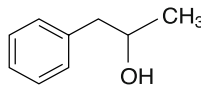
## Phenyl phenylethyl carbinol

**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:** 48  
**Catalog #:** 1-787100-300



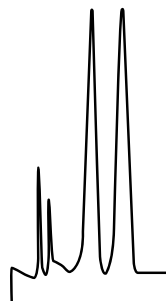
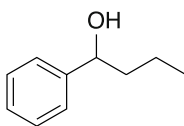
## 1-Phenyl-2-propanol

**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:** 60  
**Catalog #:** 1-787100-300



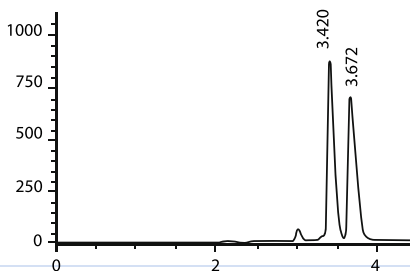
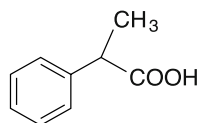
## Phenyl Propyl Carbinol

**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  
**Reference:** 46  
**Catalog #:** 1-787200-300



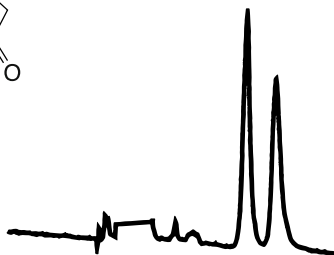
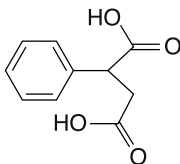
## 2-Phenylpropionic Acid

**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

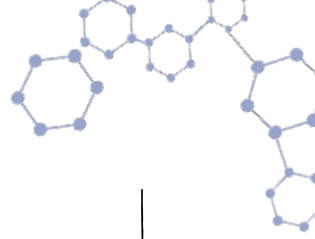


## Phenylsuccinic Acid

**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:** 48  
**Catalog #:** 1-787100-300

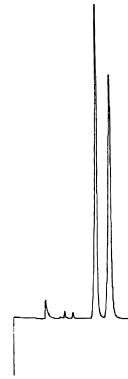
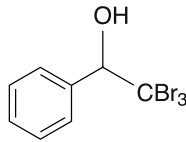






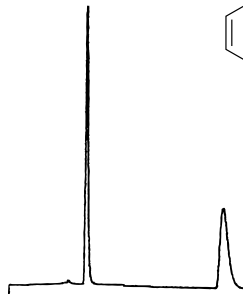
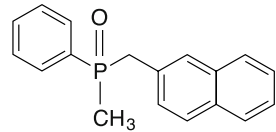
## Phenyl Tribromomethyl Carbinol

**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  
**Reference:** 46  
**Catalog #:** 1-787200-300



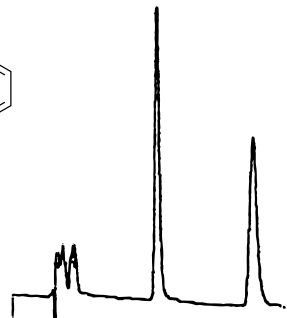
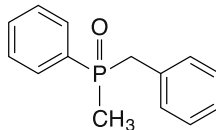
## Secondary Phosphine Oxide

**Column:** (S,S) DACH-DNB,  
 5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (75/25)  
 $\text{CH}_2\text{Cl}_2$ /IPA  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 19.0 min  
**k':** 1.49  
 **$\alpha$ :** 4.11  
**Reference:** 59  
**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)  
 $\text{CH}_2\text{Cl}_2$ /IPA  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 14.5 min  
**k':** 2.20  
 **$\alpha$ :** 1.97  
**Reference:** 59  
**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

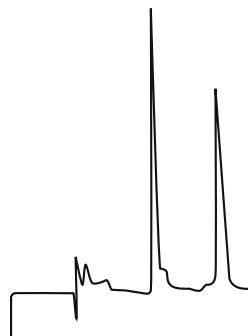
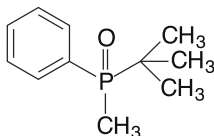
**Run Time:** 8.0 min

**$k'$ :** 1.23

**$\alpha'$ :** 1.81

**Reference:** 59

**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

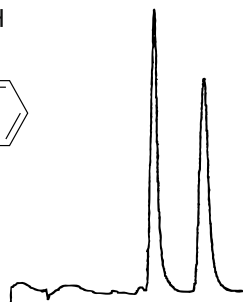
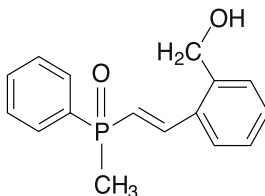
**Run Time:** 14.0 min

**$k'$ :** 2.19

**$\alpha$ :** 1.48

**Reference:** 59

**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

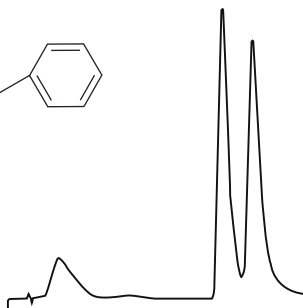
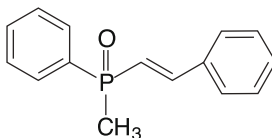
**Run Time:** 28.0 min

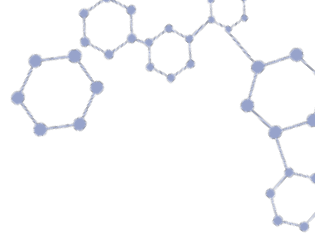
**$k'$ :** 8.11

**$\alpha'$ :** 1.17

**Reference:** 59

**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

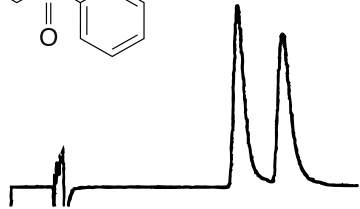
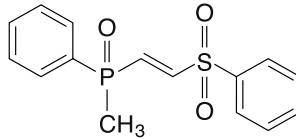
**Run Time:** 14.0 min

**$k'$ :** 4.19

**$\alpha$ :** 1.25

**Reference:** 59

**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/ $\text{CH}_2\text{Cl}_2$

**Flow Rate:** 1.0 mL/min

**Detection:** UV 254 nm

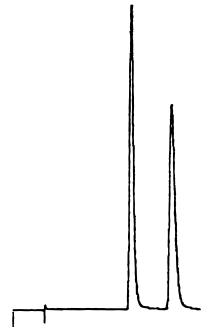
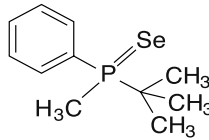
**Run Time:** 13.0 min

**$k'$ :** 2.49

**$\alpha$ :** 1.48

**Reference:** 59

**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

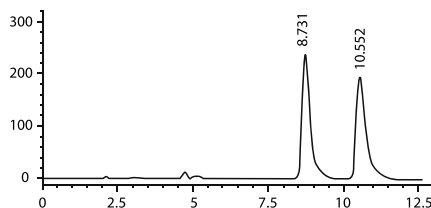
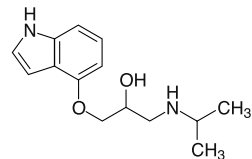
**Detection:** UV 254 nm

**$k'$ :** 3.60

**$\alpha$ :** 1.27

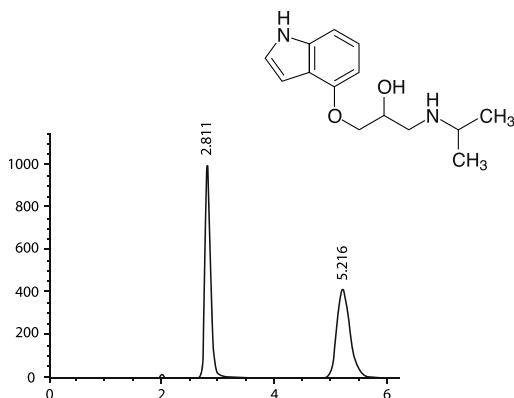
**CAS #:** 13523-86-9

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



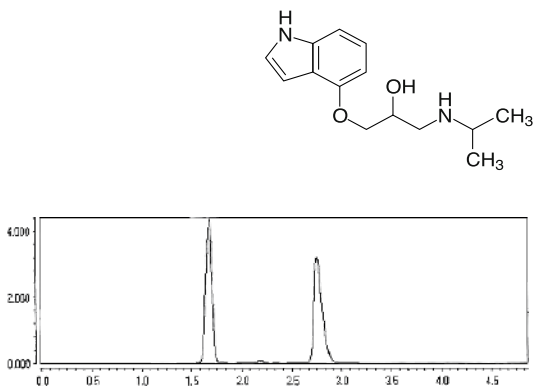
## Pindolol

**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



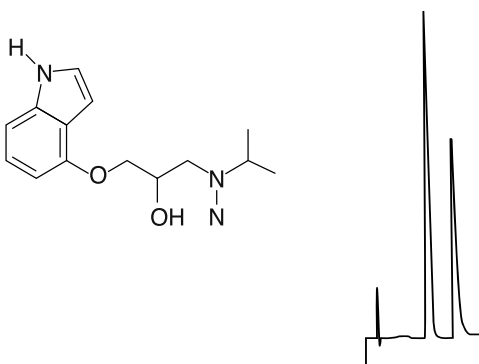
## Pindolol

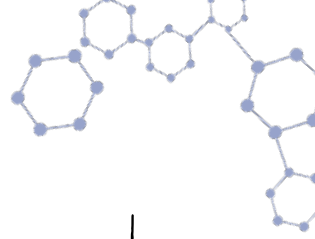
**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (70/30)  
 $\text{CO}_2/\text{CH}_3\text{OH}$  + 0.5% DEA  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40°C  
**Pressure:** 125 bar  
**Detection:** UV 254 nm  
**k'**: 1.24  
 **$\alpha$ :** 2.15  
**Catalog #:** 1-784104-300



## 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:** 33  
**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)  
 $\text{CH}_2\text{Cl}_2$ /Ethanol + 0.04M  
Ammonium Acetate

**Flow Rate:** 1.0 mL/min

**Detection:** UV 254 nm

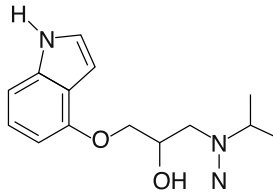
**Run Time:** 11.0 min

**k':** 1.56

**$\alpha$ :** 2.06

**Reference:** 46

**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

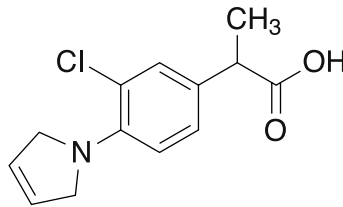
**k':** 0.85

**$\alpha$ :** 1.81

**Reference:** 4

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

1-780201-300



## PPO Inhibitor

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

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

**Flow Rate:** 2.0 mL/min

**Detection:** UV 254 nm

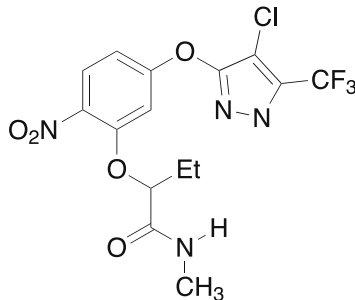
**k':** 5.2

**$\alpha$ :** 1.32

**Reference:** 23

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

1-780201-300



## 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

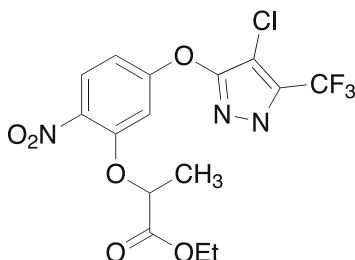
**Detection:** UV 254 nm

**k':** 3.2

**$\alpha$ :** 1.08

**Reference:** 23

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



## 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

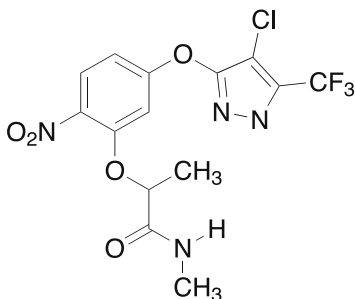
**Detection:** UV 254 nm

**k':** 7.5

**$\alpha$ :** 1.29

**Reference:** 23

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



## 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

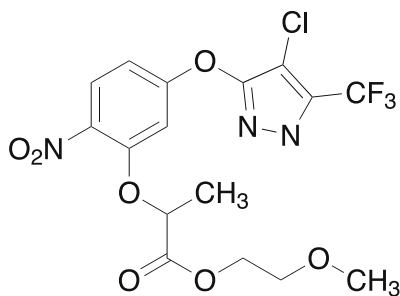
**Detection:** UV 254 nm

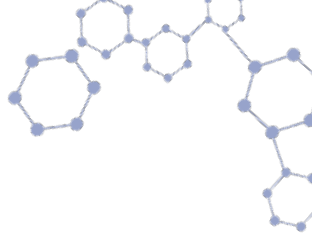
**k':** 6.1

**$\alpha$ :** 1.08

**Reference:** 23

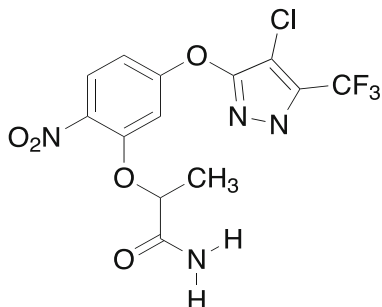
**Catalog #:** 1-780101-300,  
1-780201-300





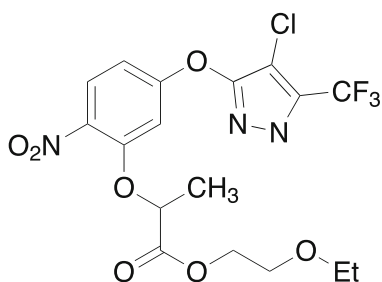
## PPO Inhibitor

**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:** 23  
**Catalog #:** 1-780101-300,  
1-780201-300



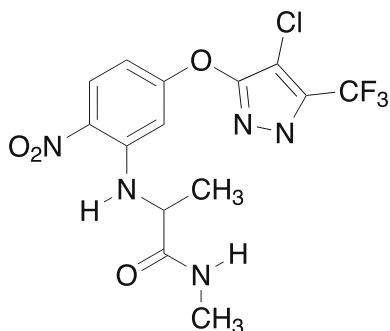
## PPO Inhibitor

**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:** 23  
**Catalog #:** 1-780101-300,  
1-780201-300



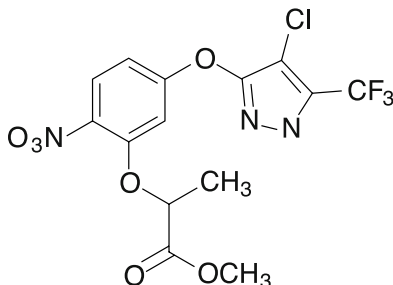
## PPO Inhibitor

**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:** 23  
**Catalog #:** 1-780101-300,  
1-780201-300



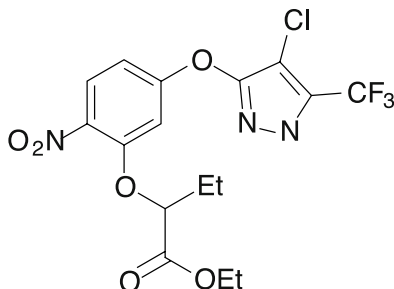
## PPO Inhibitor

**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:** 23  
**Catalog #:** 1-780101-300,  
1-780201-300



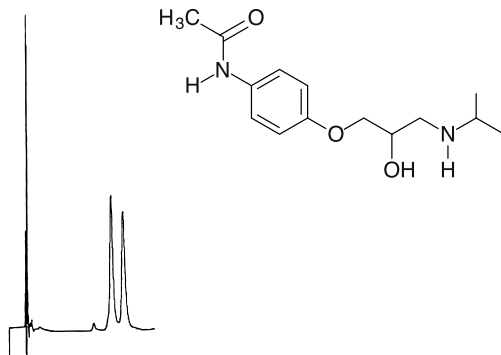
## PPO Inhibitor

**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:** 23  
**Catalog #:** 1-780101-300,  
1-780201-300

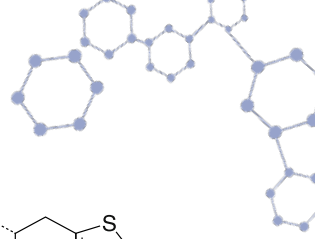


## Practolol

**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:** 33  
**Catalog #:** 1-735035-300,  
1-735037-300

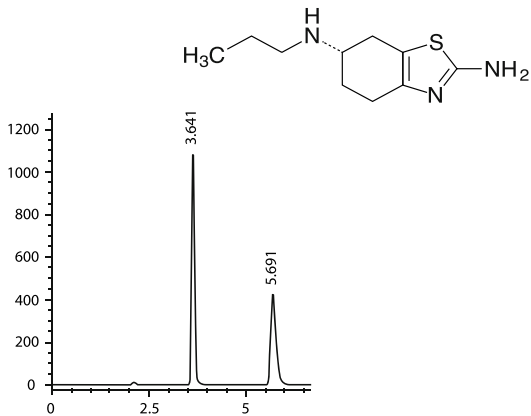






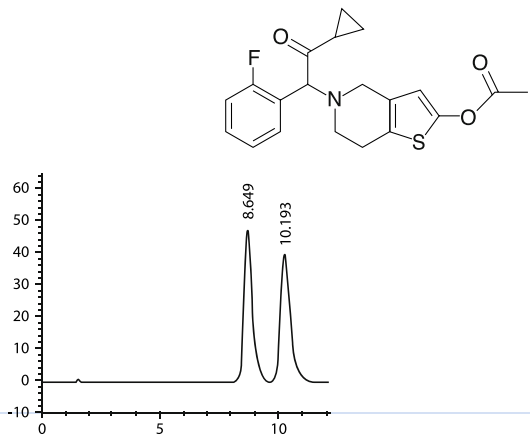
## Pramipexole

**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



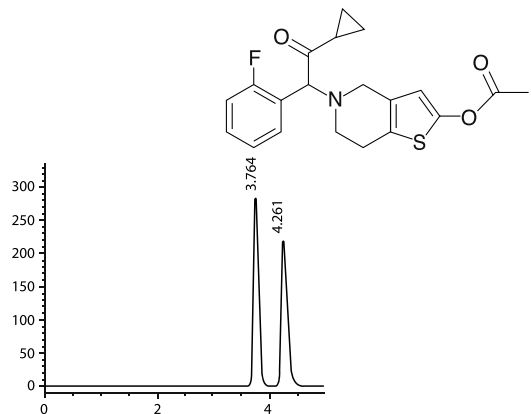
## Prasugrel

**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



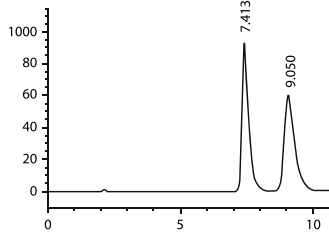
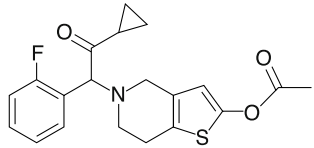
## Prasugrel

**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



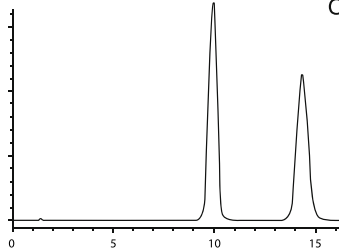
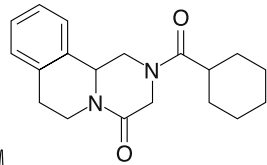
## Prasugrel

**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



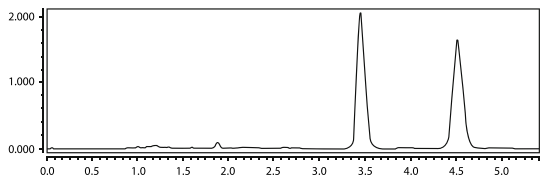
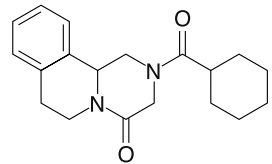
## Praziquantel

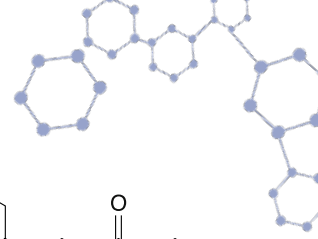
**Column:** (R,R) Whelk-O 1,  
10  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (80/20)  
Hexane/Ethanol  
**Flow Rate:** 2.0 mL/min  
**Detection:** UV 220 nm  
**k'**: 6.28  
 **$\alpha$ :** 1.52  
**Catalog #:** 1-786515-300



## Praziquantel

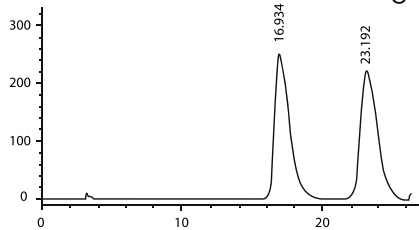
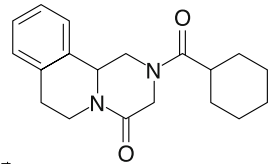
**Column:** (S,S) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (65/35)  
 $\text{CO}_2/\text{CH}_3\text{OH}$   
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40°C  
**Detection:** UV 220 nm  
**k'**: 3.61  
 **$\alpha$ :** 1.49  
**Catalog #:** 1-780101-300





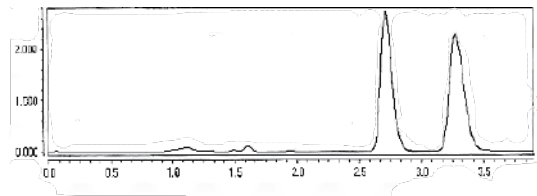
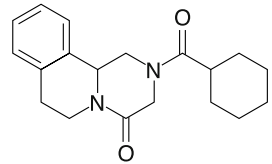
## Praziquantel

**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



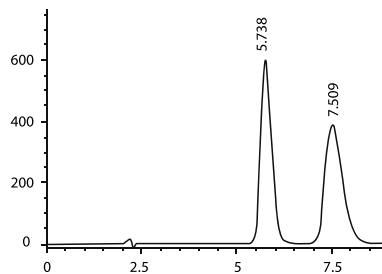
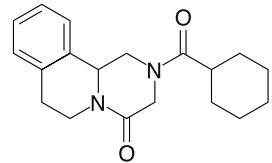
## Praziquantel

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (70/30)  
 $\text{CO}_2$ /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



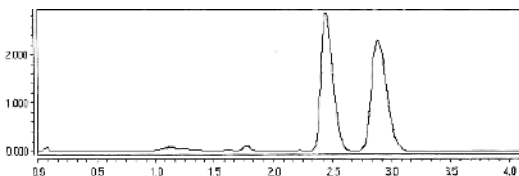
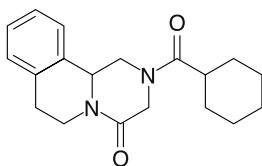
## Praziquantel

**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



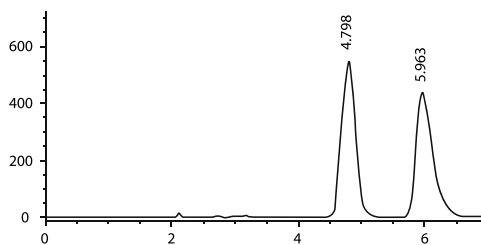
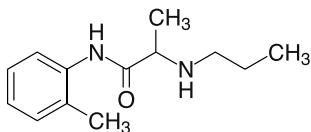
## Praziquantel

**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



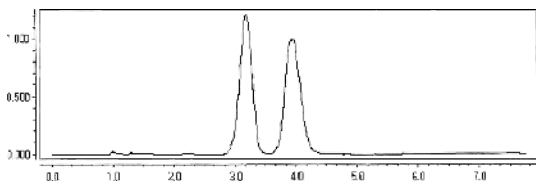
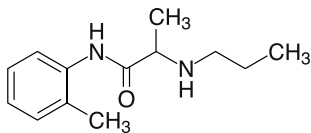
## Prilocaine

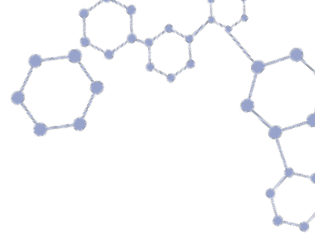
**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (95/5)  
Hexane/IPA + 0.1% DEA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**k'**: 1.53  
 **$\alpha$ :** 1.40  
**CAS #:** 721-50-6  
**Catalog #:** 1-784104-300



## Prilocaine

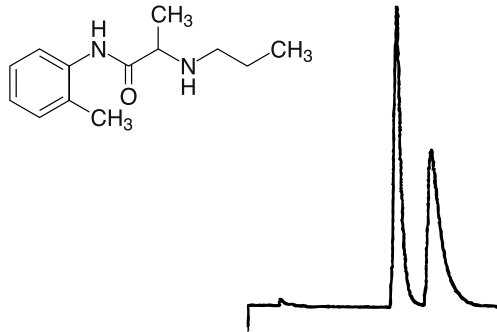
**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (95/5)  
CO<sub>2</sub>/IPA + 0.5% DEA  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40°C  
**Pressure:** 125 bar  
**Detection:** UV 254 nm  
**k'**: 3.26  
 **$\alpha$ :** 1.31  
**Catalog #:** 1-784104-300





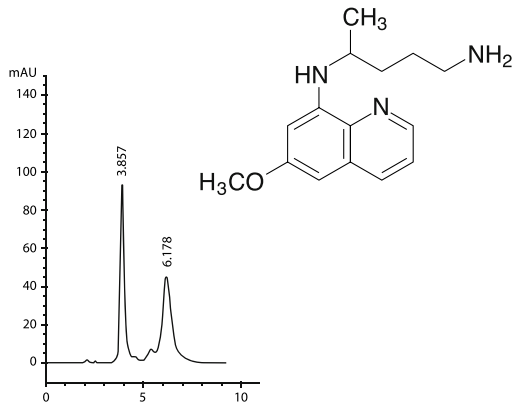
## Prilocaine

**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  
**Reference:** 46  
**Catalog #:** 1-787100-300



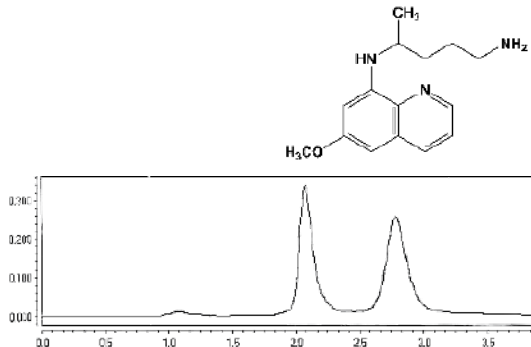
## Primaquine

**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



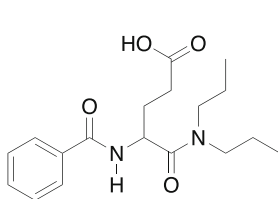
## Primaquine

**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



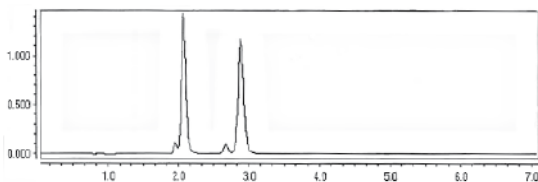
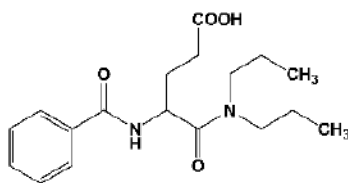
## Proglumide

**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  
**Reference:** 18  
**Catalog #:** 1-780101-300,  
1-780201-300



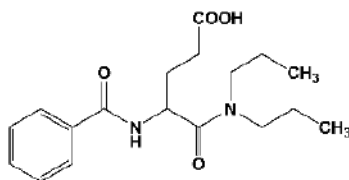
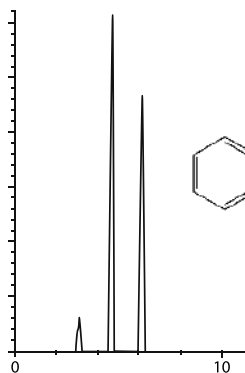
## Proglumide

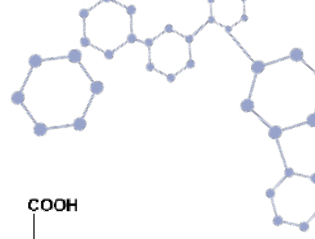
**Column:** (S,S) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (75/25)  
CO<sub>2</sub>/Ethanol + 0.5% Acetic Acid  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40°C  
**Pressure:** 125 bar  
**Detection:** UV 254 nm  
**k':** 1.77  
 **$\alpha$ :** 1.61  
**Catalog #:** 1-780101-300



## Proglumide

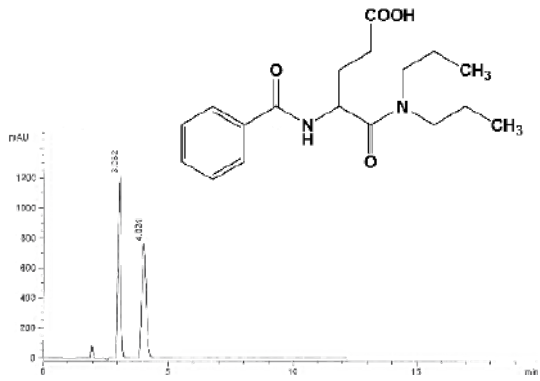
**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
Hexane/Ethanol + 0.1%TFA  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 245 nm  
**k':** 0.55  
 **$\alpha$ :** 1.88  
**Catalog #:** 1-784104-300





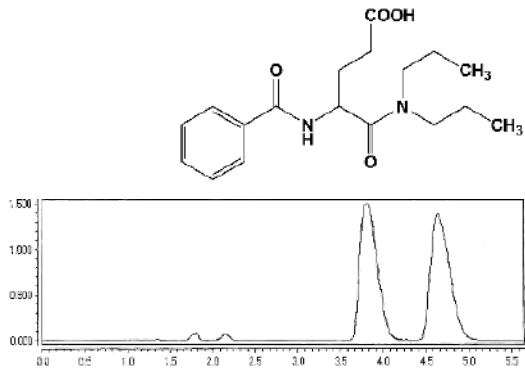
## Proglumide

**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



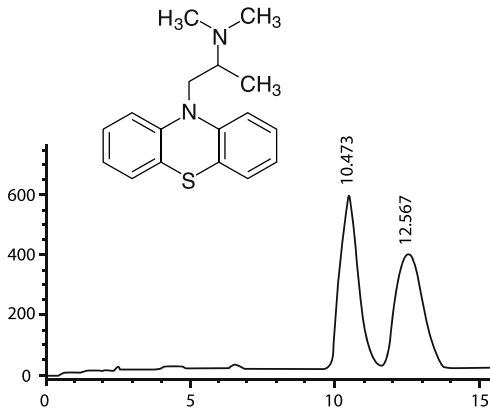
## Proglumide

**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°C  
**Pressure:** 125 bar  
**Detection:** UV 245 nm  
**k'**: 4.08  
 **$\alpha$ :** 1.27  
**Catalog #:** 1-784104-300



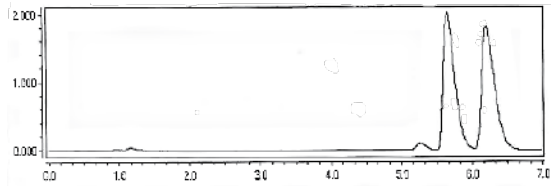
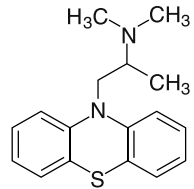
## Promethazine

**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



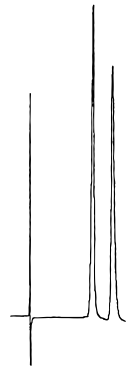
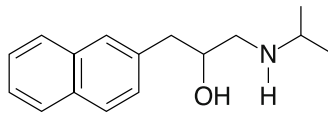
## Promethazine

**Column:** RegisPack,  
5  $\mu$ m, 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
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'**: 6.53  
 **$\alpha$ :** 1.11  
**Catalog #:** 1-783104-300



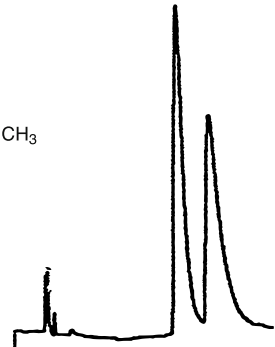
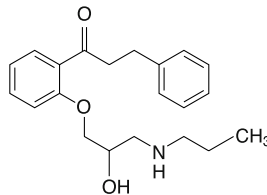
## Pronethalol

**Column:**  $\alpha$ -Burke 2,  
5  $\mu$ m, 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
CH<sub>2</sub>Cl<sub>2</sub>/EtOH  
15 mM NH<sub>4</sub>OAc  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 15 min  
**k'**: 3.26  
 **$\alpha$ :** 1.31  
**Reference:** 33  
**Catalog #:** 1-735035-300, 1-735037-300

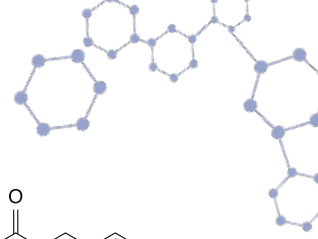


## Propafenone

**Column:** (R,R) Whelk-O 1,  
5  $\mu$ m, 25 cm x 4.6 mm  
**Mobile Phase:** (47/47/6)  
CH<sub>2</sub>Cl<sub>2</sub>/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  
**Reference:** 46  
**Catalog #:** 1-780201-300

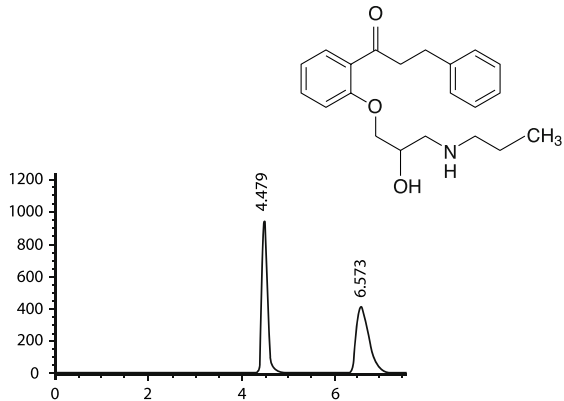






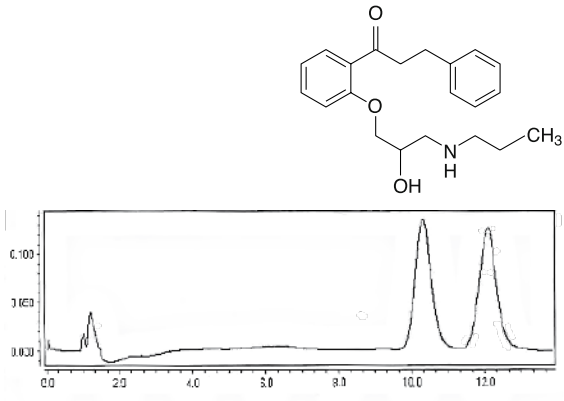
## Propafenone

**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

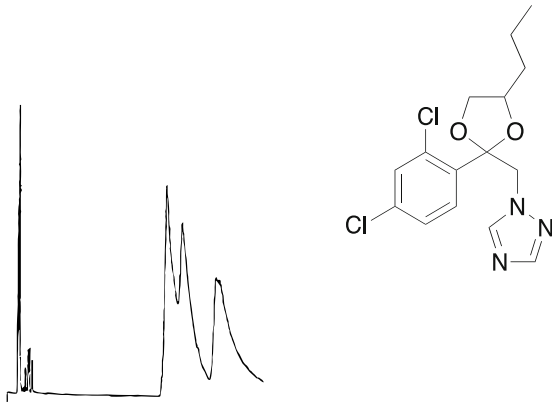
**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (85/15)  
 $\text{CO}_2/\text{IPA}$  + 0.5% DEA  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40°C  
**Pressure:** 125 bar  
**Detection:** UV 254 nm  
**k'**: 12.77  
 **$\alpha$ :** 1.19  
**Catalog #:** 1-783104-300



## Propiconazole, Tilt

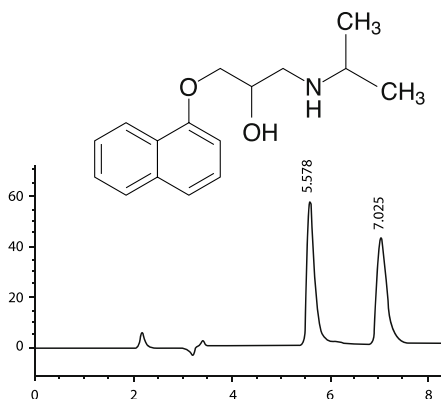
*Fungicide*

**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:** 70 min  
**Reference:** 43  
**Catalog #:** 1-780101-300,  
1-780201-300



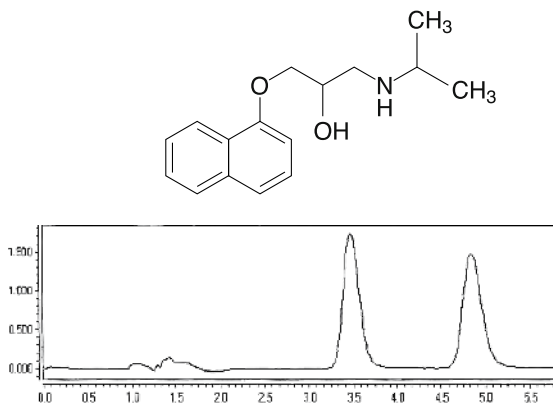
## Propranolol

**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 254 nm  
**k'**: 1.94  
 **$\alpha$ :** 1.39  
**CAS #:** 525-66-6  
**Catalog #:** 1-783104-300



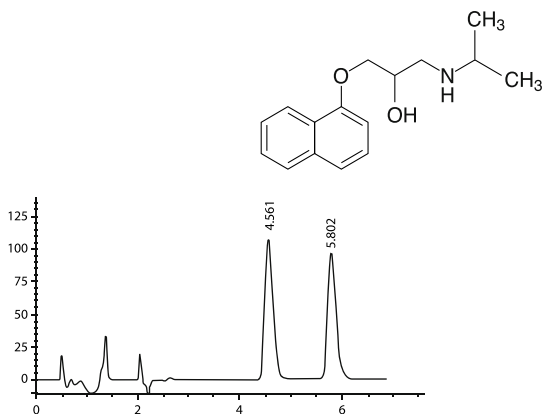
## Propranolol

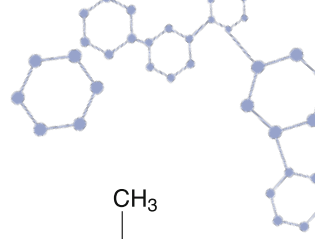
**Column:** RegisPack,  
 5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
 $\text{CO}_2/\text{CH}_3\text{OH}$  + 0.5% DEA  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40°C  
**Pressure:** 125 bar  
**Detection:** UV 220 nm  
**k'**: 3.62  
 **$\alpha$ :** 1.51  
**Catalog #:** 1-783104-300



## Propranolol

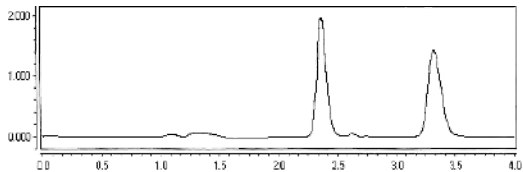
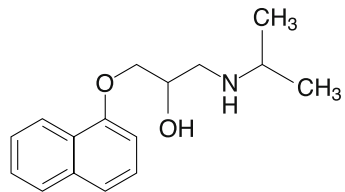
**Column:** RegisCell,  
 5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
 Hexane/Ethanol  
 +0.1% DEA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**k'**: 1.40  
 **$\alpha$ :** 1.47  
**CAS #:** 525-66-6  
**Catalog #:** 1-784104-300





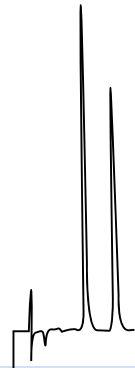
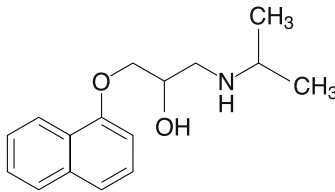
## Propranolol

**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°C  
**Pressure:** 125 bar  
**Detection:** UV 220 nm  
 **$k'$ :** 2.14  
 **$\alpha$ :** 1.60  
**Catalog #:** 1-784104-300



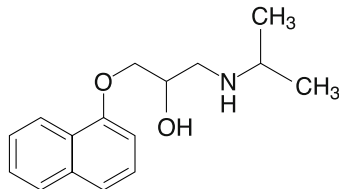
## Propranolol

**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:** 33  
 **$k'$ :** 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)  
 $\text{CH}_2\text{Cl}_2/\text{Ethanol}$  + 0.04M  
Ammonium Acetate  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 6.5 min  
 **$k'$ :** 0.80  
 **$\alpha$ :** 1.80  
**Reference:** 46  
**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

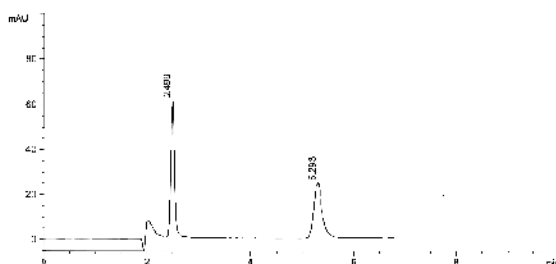
**Detection:** UV 220 nm

**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:** 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

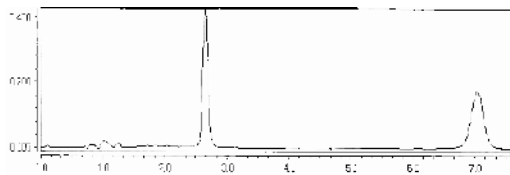
**Detection:** UV 220 nm

**k'**<sub>1</sub>: 2.55

**k'**<sub>2</sub>: 8.37

**$\alpha$** : 3.28

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



## 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

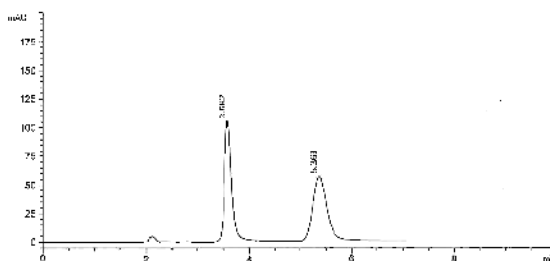
**Detection:** UV 220 nm

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

**Flow Rate:** 4.0 mL/min

**Temperature:** 40°C

**Pressure:** 125 bar

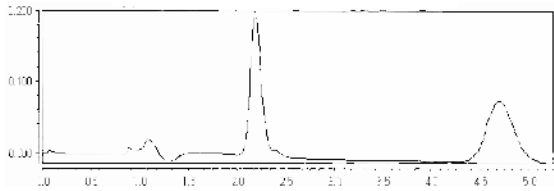
**Detection:** UV 220 nm

**$k'_1$ :** 1.92

**$k'_2$ :** 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

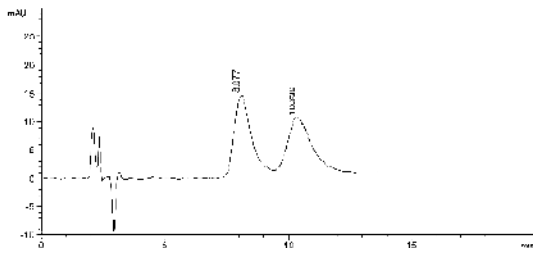
**Detection:** UV 220 nm

**$k'_1$ :** 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  $\mu\text{m}$ , 25cm x 4.6mm

**Mobile Phase:** (75/25)  $\text{CO}_2/\text{CH}_3\text{OH}$

**Flow Rate:** 4.0 mL/min

**Temperature:** 40°C

**Pressure:** 124 bar

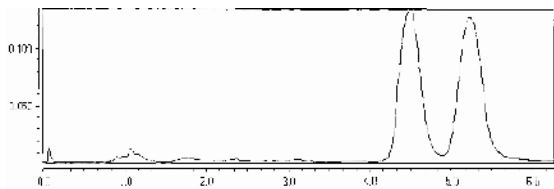
**Detection:** UV 220 nm

**$k'_1$ :** 5.01

**$k'_2$ :** 5.97

**$\alpha$ :** 1.19

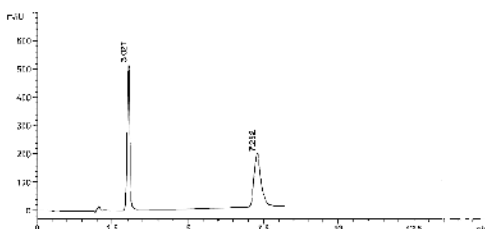
**Catalog #:** 1-784104-300



## Pyranoquinolones

2-amino-4-(4-methoxyphenyl)-5-oxo-5,6-dihydro-4H-pyrano[3,2-c]quinoline-3-carbonitrile

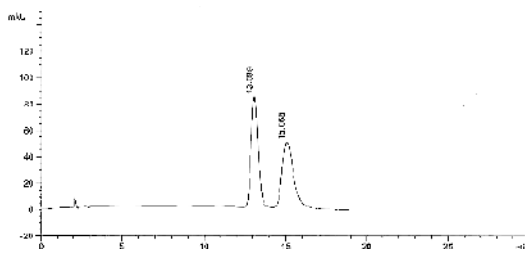
**Column:** (S,S) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** 100% Methanol  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
**k'1:** 0.59  
**k'2:** 2.84  
 **$\alpha$ :** 4.81  
**Catalog #:** 1-780101-300



## Pyranoquinolones

2-amino-4-(4-methoxyphenyl)-5-oxo-5,6-dihydro-4H-pyrano[3,2-c]quinoline-3-carbonitrile

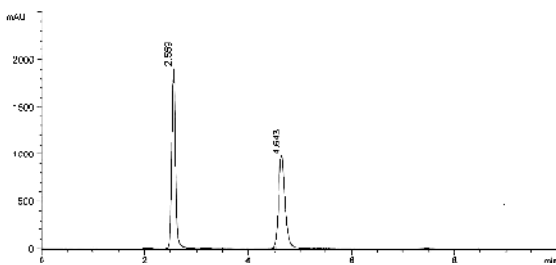
**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (80/20)  
Hexane/Ethanol  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
**k'1:** 5.89  
**k'2:** 6.93  
 **$\alpha$ :** 1.18  
**Catalog #:** 1-783104-300

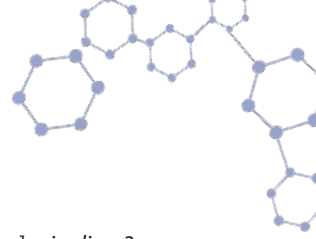


## Pyranoquinolones

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'1:** 0.35  
**k'2:** 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)  $\text{CO}_2/\text{CH}_3\text{OH}$

**Flow Rate:** 4.0 mL/min

**Temperature:** 40°C

**Pressure:** 124 bar

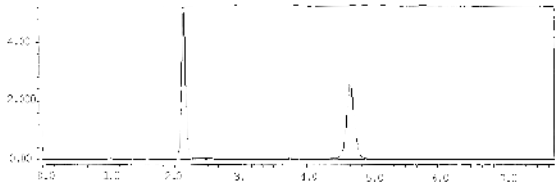
**Detection:** UV 220 nm

**k'1:** 1.85

**k'2:** 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

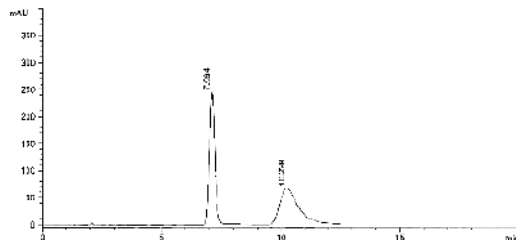
**Detection:** UV 220 nm

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

**Flow Rate:** 4.0 mL/min

**Temperature:** 40°C

**Pressure:** 125 bar

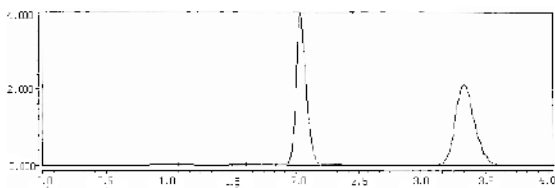
**Detection:** UV 220 nm

**k'1:** 1.72

**k'2:** 3.45

**$\alpha$ :** 2.01

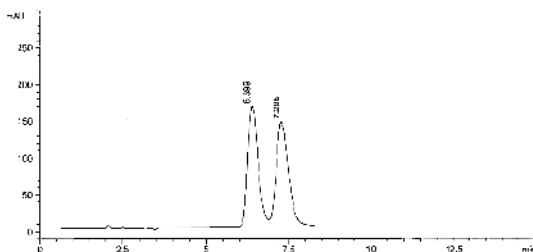
**Catalog #:** 1-784104-300



## Pyranoquinolones

*2-amino-4-(3,4-difluorophenyl)-5-oxo-5,6-dihydro-4H-pyrano[3,2-c]quinoline-3-carbonitrile*

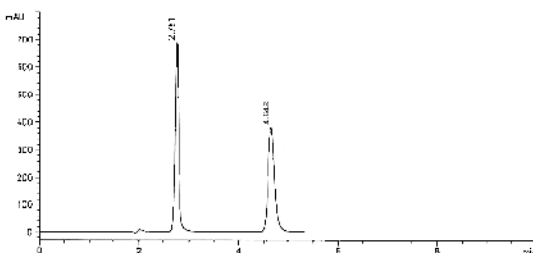
**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (85/15)  
Hexane/IPA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
**k'1:** 2.37  
**k'2:** 2.83  
 **$\alpha$ :** 1.19  
**Catalog #:** 1-784104-300



## Pyranoquinolones

*2-amino-4-(2,3-dimethoxyphenyl)-5-oxo-5,6-dihydro-4H-pyrano[3,2-c]quinoline-3-carbonitrile*

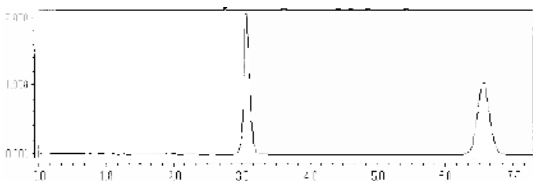
**Column:** (S,S) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** 100%  
Methanol  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
**k'1:** 0.45  
**k'2:** 1.45  
 **$\alpha$ :** 3.22  
**Catalog #:** 1-780101-300



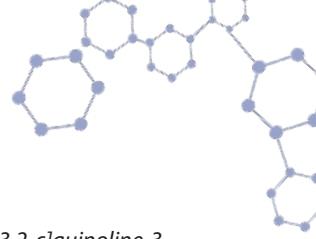
## Pyranoquinolones

*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'1:** 3.11  
**k'2:** 7.76  
 **$\alpha$ :** 2.50  
**Catalog #:** 1-780101-300



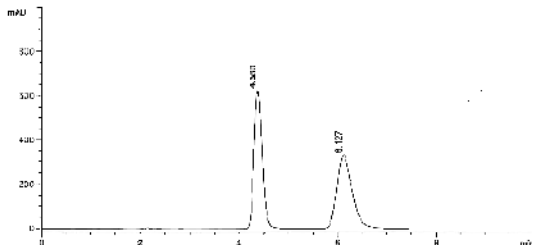




## Pyranoquinolones

*2-amino-4-(2,3-dimethoxyphenyl)-5-oxo-5,6-dihydro-4H-pyrano[3,2-c]quinoline-3-carbonitrile*

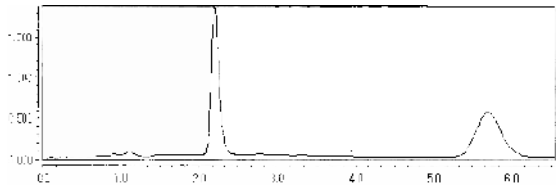
**Column:** RegisPack,  
5  $\mu\text{m}$ , 25cm x 4.6mm  
**Mobile Phase:** (60/40)  
Hexane/Ethanol  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
**k'**<sub>1</sub>: 1.31  
**k'**<sub>2</sub>: 2.22  
 **$\alpha$** : 1.69  
**Catalog #:** 1-783104--300



## Pyranoquinolones

*2-amino-4-(2,3-dimethoxyphenyl)-5-oxo-5,6-dihydro-4H-pyrano[3,2-c]quinoline-3-carbonitrile*

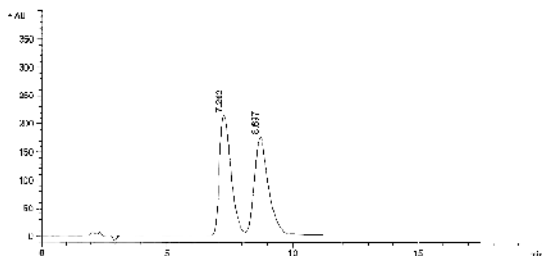
**Column:** RegisPack, 5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (60/40) CO<sub>2</sub>/CH<sub>3</sub>OH  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40°C  
**Pressure:** 125 bar  
**Detection:** UV 220 nm  
**k'**<sub>1</sub>: 1.95  
**k'**<sub>2</sub>: 6.60  
 **$\alpha$** : 3.38  
**Catalog #:** 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  $\mu\text{m}$ , 25cm x 4.6mm  
**Mobile Phase:** (80/20)  
Hexane/IPA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
**k'**<sub>1</sub>: 2.82  
**k'**<sub>2</sub>: 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

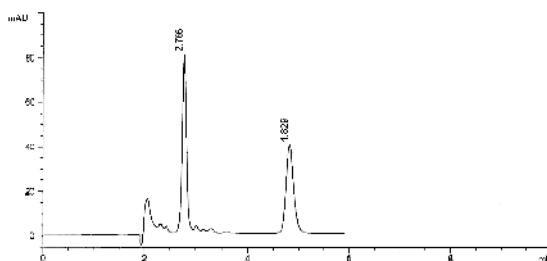
**Detection:** UV 220 nm

**k'1:** 0.46

**k'2:** 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) CO<sub>2</sub>/CH<sub>3</sub>OH

**Flow Rate:** 4.0 mL/min

**Temperature:** 40°C

**Pressure:** 124 bar

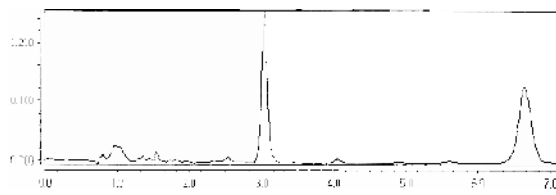
**Detection:** UV 220 nm

**k'1:** 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  $\mu\text{m}$ ,

25cm x 4.6mm

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

Hexane/Ethanol

**Flow Rate:** 1.5 mL/min

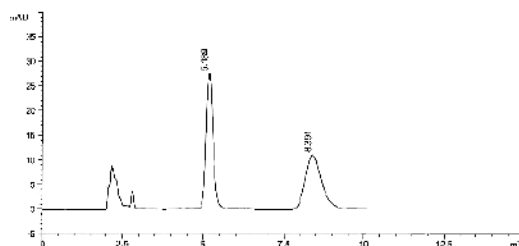
**Detection:** UV 220 nm

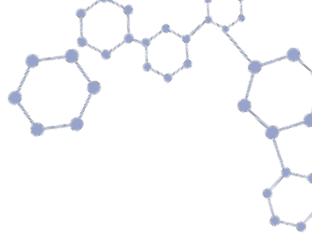
**k'1:** 1.73

**k'2:** 3.42

**$\alpha$ :** 1.98

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





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

**Flow Rate:** 4.0 mL/min

**Temperature:** 40°C

**Pressure:** 125 bar

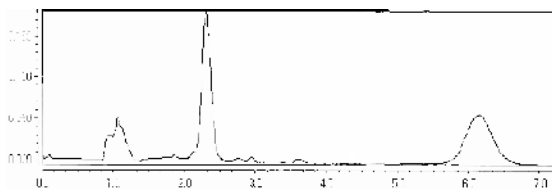
**Detection:** UV 220 nm

**k':** 2.09

**k'':** 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

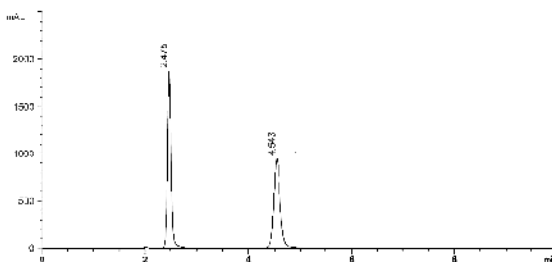
**Detection:** UV 220 nm

**k':** 0.30

**k'':** 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

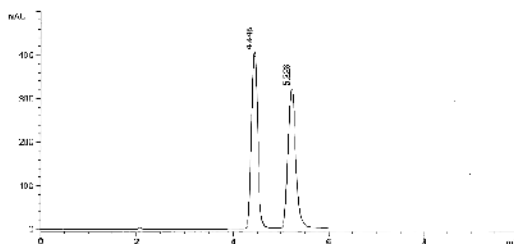
**Detection:** UV 220 nm

**k':** 1.34

**k'':** 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)  $\text{CO}_2/\text{CH}_3\text{OH}$

**Flow Rate:** 4.0 mL/min

**Temperature:** 40°C

**Pressure:** 126 bar

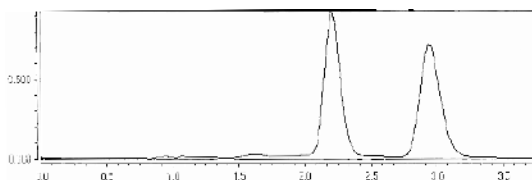
**Detection:** UV 220 nm

**k'1:** 1.95

**k'2:** 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

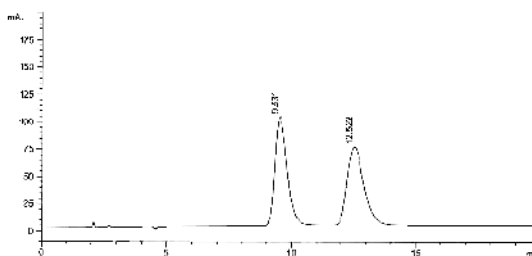
**Detection:** UV 220 nm

**k'1:** 4.02

**k'2:** 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

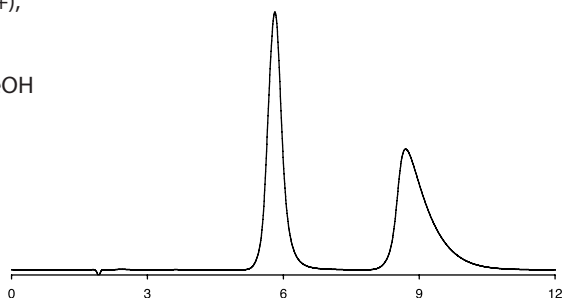
**Detection:** UV 210 nm

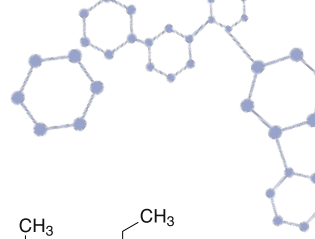
**Temperature:** 20°C

**k'1:** 2.03

**$\alpha$ :** 1.74

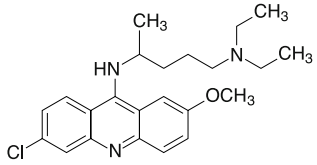
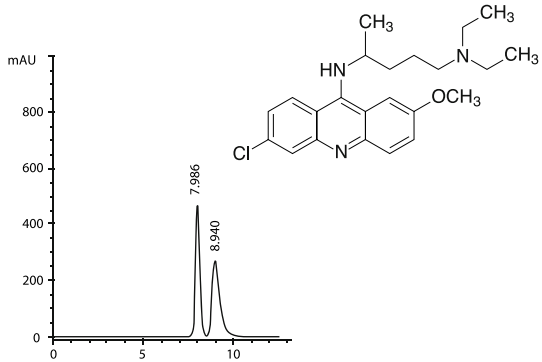
**Catalog #:** 1-788001-300





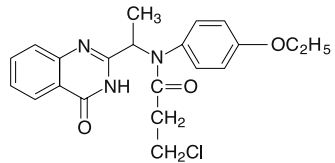
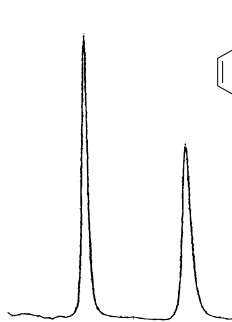
## Quinacrine

**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



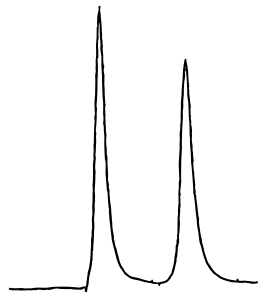
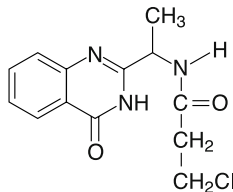
## 4(3H)-Quinazolone Derivatives

**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:** 58  
**Catalog #:** 1-780101-300



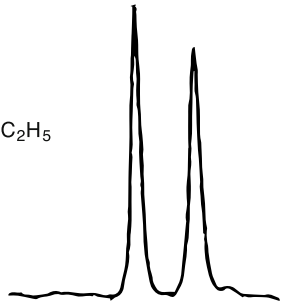
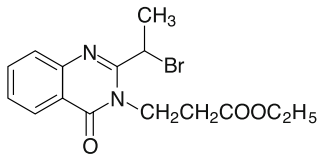
## 4(3H)-Quinazolone Derivatives

**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:** 58  
**Catalog #:** 1-780101-300



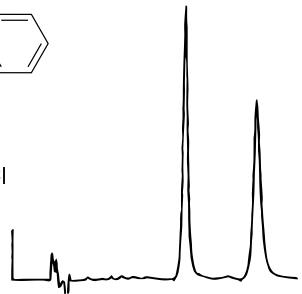
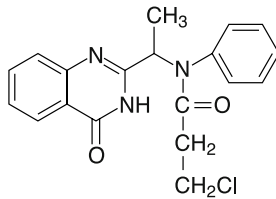
### 4(3H)-Quinazolone Derivatives

**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:** 58  
**Catalog #:** 1-780101-300



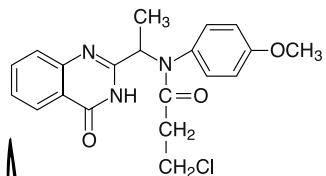
### 4(3H)-Quinazolone Derivatives

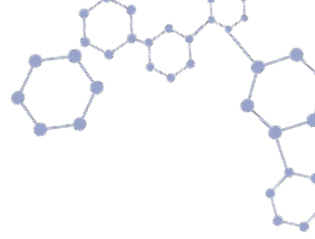
**Column:** (S,S) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (80/20)  
Hexane/Ethanol  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 225 nm  
**Run Time:** 16.0 min  
**k'**: 2.88  
 **$\alpha$ :** 1.56  
**Reference:** 58  
**Catalog #:** 1-780101-300



### 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:** 58  
**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° C

**Flow Rate:** 1.0 mL/min

**Detection:** UV 254 nm

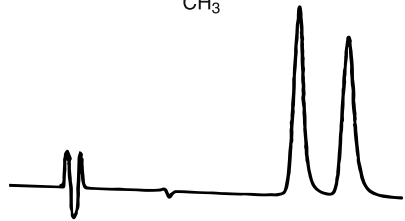
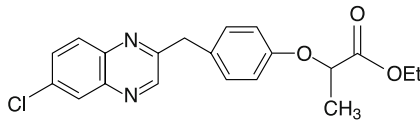
**Run Time:** 20.0 min

**k':** 5.22

**$\alpha$ :** 1.21

**Reference:** 59

**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

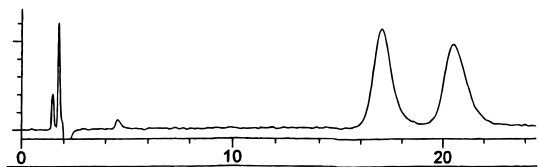
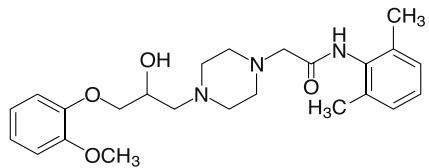
**Detection:** UV 220 nm

**k':** 11.51

**$\alpha$ :** 1.23

**Reference:** 46

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



## Rasagiline 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

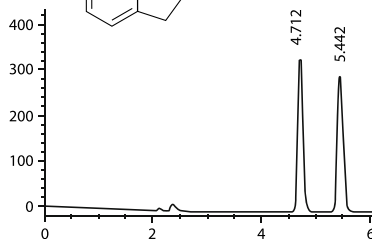
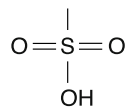
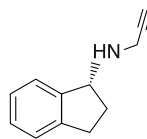
**Detection:** UV 210 nm

**k':** 1.44

**$\alpha$ :** 1.26

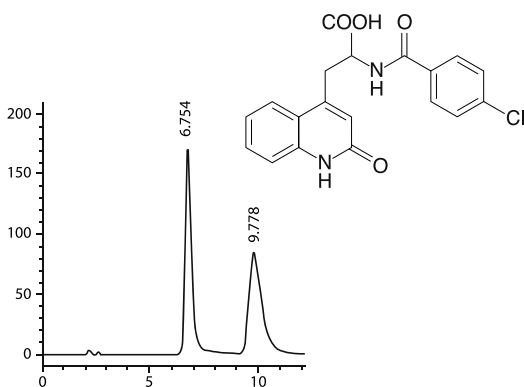
**CAS #:** 161735-79-1

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



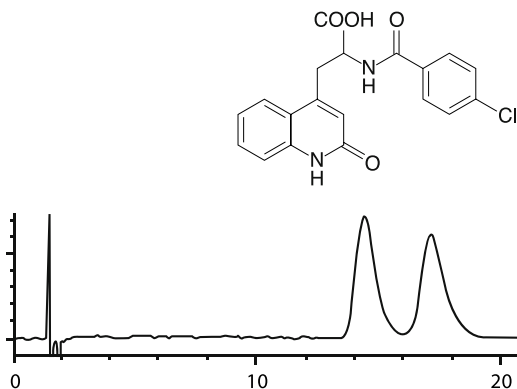
## Rebamipide

**Column:** 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



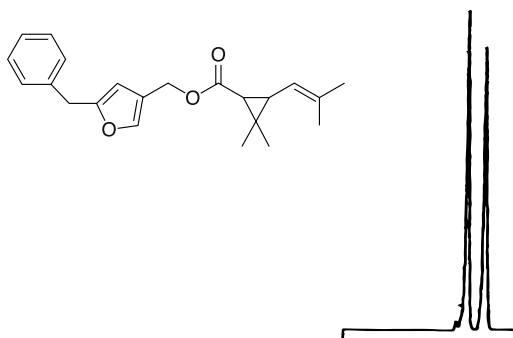
## Rebamipide

**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 #:** 1-786447-300

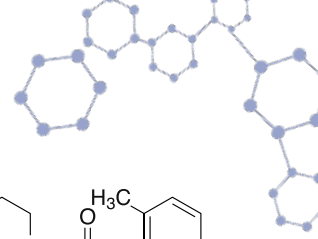


## Resmethrin

**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  
**Reference:** 46  
**Catalog #:** 1-780201-300

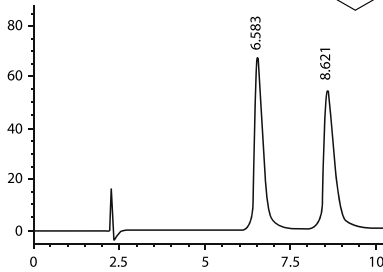
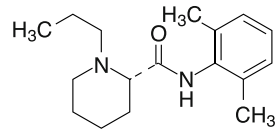






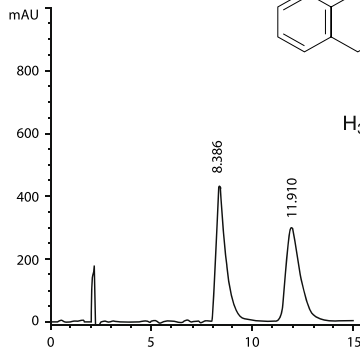
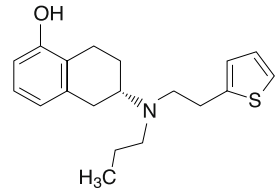
## Ropivacaine

**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



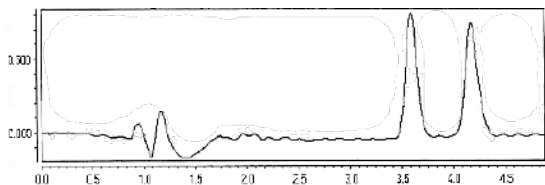
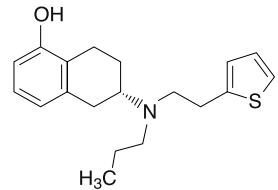
## Rotigotine

**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



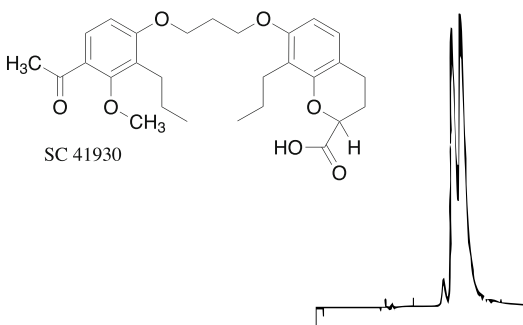
## Rotigotine

**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°C  
**Pressure:** 125 bar  
**Detection:** UV 220 nm  
 **$k'$ :** 3.79  
 **$\alpha$ :** 1.20  
**Catalog #:** 1-783104-300



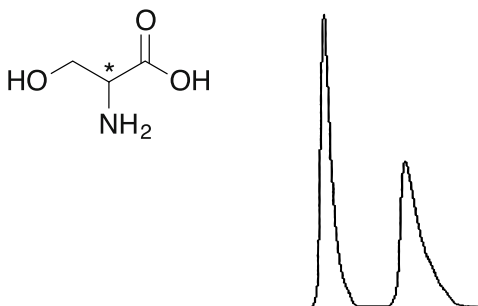
## SC 41930

**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



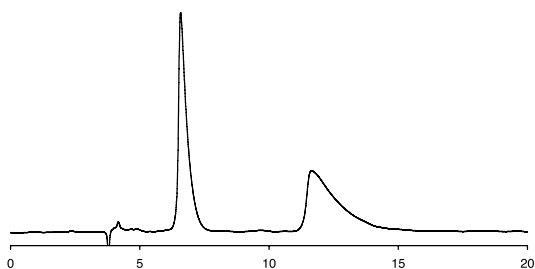
## Serine

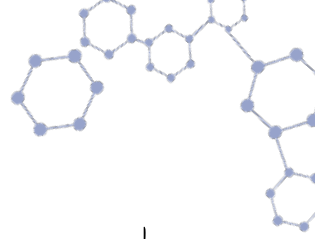
**Column:** ChiroSil,  
5  $\mu\text{m}$ , 15 cm x 4.6 mm  
**Mobile Phase:** (84/16)  
CH<sub>3</sub>OH/H<sub>2</sub>O + 5 mM HClO<sub>4</sub>  
**Flow Rate:** 0.8 mL/min  
**Detection:** UV 210 nm  
**Run Time:** 6.0 min  
**k':** 1.37  
 **$\alpha$ :** 1.99  
**Catalog #:** 1-799001-300,  
1-799101-300



## 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

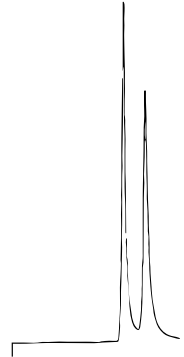
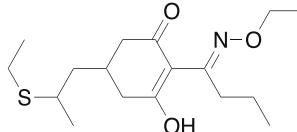




## Sethoxydim

Herbicide

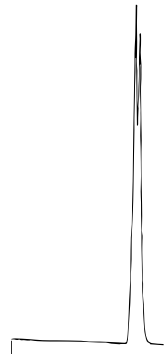
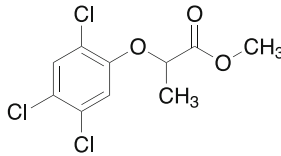
**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (98/2)  
Hexane/IPA  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 15 min  
**k':** 6.77  
 **$\alpha$ :** 1.26  
**Reference:** 43  
**Catalog #:** 1-783104-300



## Silvex Methyl

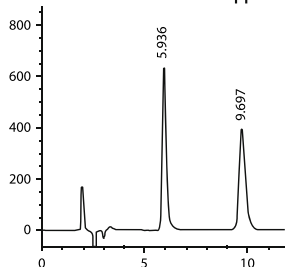
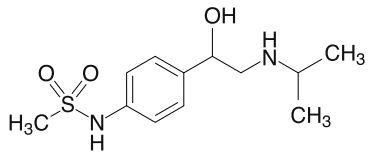
Herbicide

**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  
**Reference:** 43  
**Catalog #:** 1-780101-300



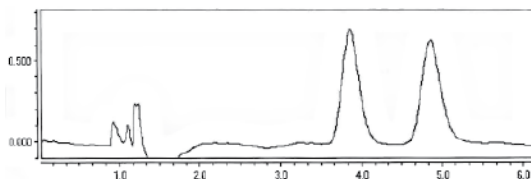
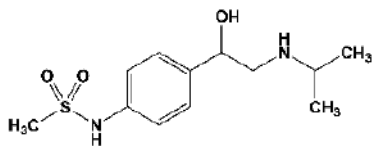
## Sotalol

**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



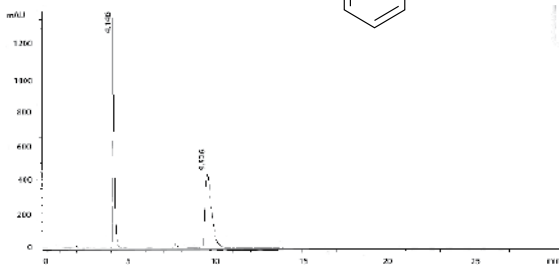
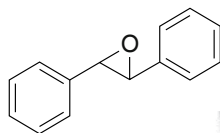
## Sotalol

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (85/15)  
 $\text{CO}_2$ /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



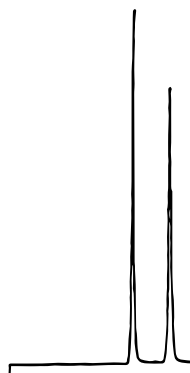
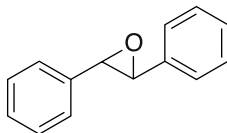
## Stilbene Oxide

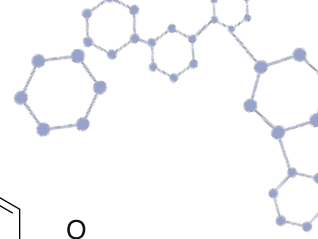
**Column:** (S,S) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
Hexane/IPA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
 **$k'$ :** 1.15  
 **$\alpha$ :** 3.42  
**Catalog #:** 1-780101-300



## Stilbene Oxide

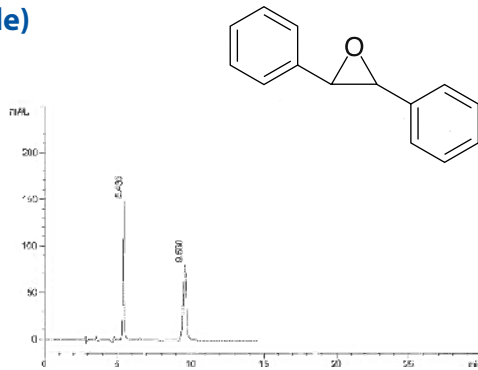
**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
Hexane/IPA  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
 **$k'$ :** 0.45  
 **$\alpha$ :** 2.00  
**Reference:** 18  
**Catalog #:** 1-780101-300,  
1-780201-300





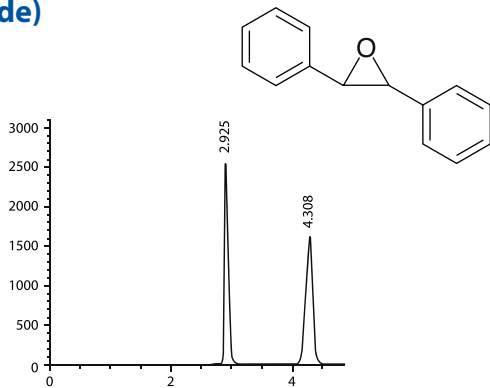
## TSO (trans-Stilbene Oxide)

**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



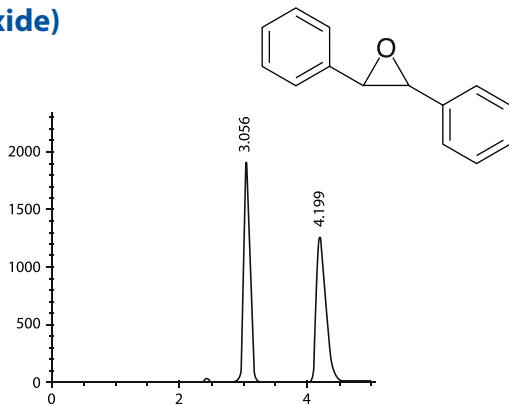
## TSO (trans-Stilbene Oxide)

**Column:** RegisPack,  
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'**: 0.54  
 **$\alpha$ :** 2.35  
**CAS #:** 1439-07-2  
**Catalog #:** 1-783104-300



## TSO (trans-Stilbene Oxide)

**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 254 nm  
**k'**: 0.61  
 **$\alpha$ :** 1.99  
**CAS #:** 1439-07-2  
**Catalog #:** 1-784104-300



## TSO (trans-Stilbene Oxide)

**Column:** RegisPack CLA-1,

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

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

Hexane/Ethanol

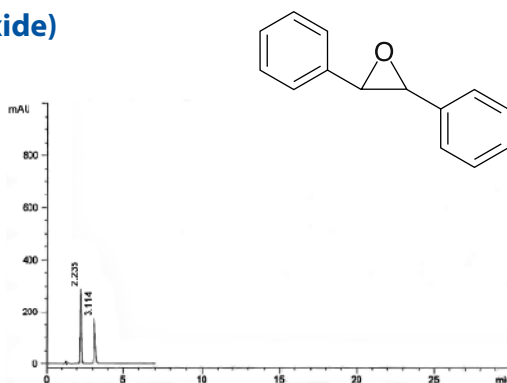
**Flow Rate:** 1.0 mL/min

**Detection:** UV 254 nm

**k':** 0.18

**$\alpha$ :** 3.55

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



## Styrene Oxide

**Column:** Whelk-O 1,

5  $\mu$ 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

**Reference:** 18

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

1-780201-300



## Sulconazole

**Column:** RegisCell,

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

**Mobile Phase:** (72/25)

Hexane/IPA

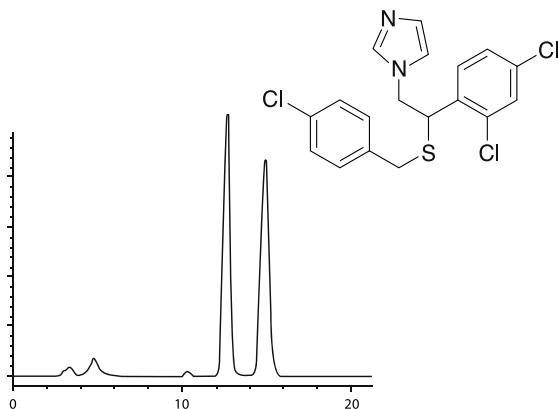
**Flow Rate:** 1.0 mL/min

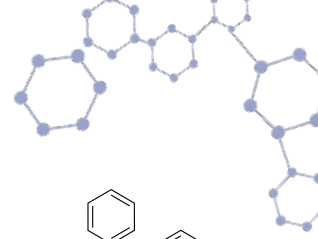
**Detection:** UV 254 nm

**k':** 3.17

**$\alpha$ :** 1.23

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





## 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

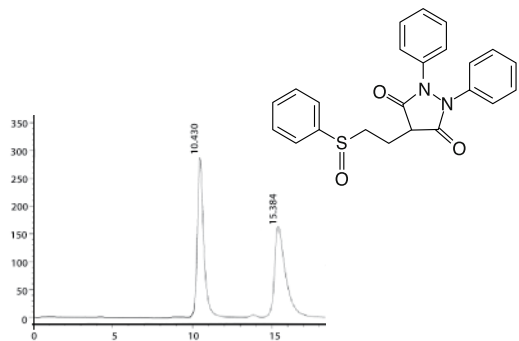
**Run Time:** 11.0 min

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

+ 0.1% Acetic acid

**Flow Rate:** 1.5 mL/min

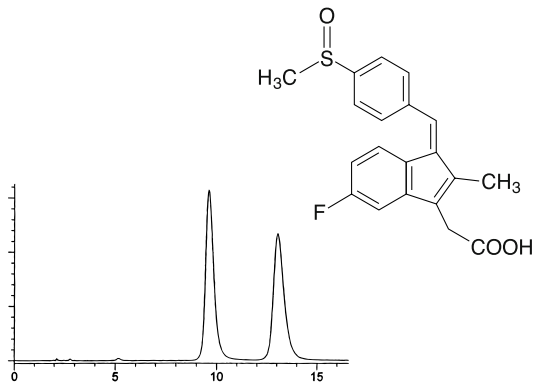
**Detection:** UV 254 nm

**k':** 4.32

**$\alpha$ :** 1.45

**Reference:** 46

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



## Sulpiride

**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

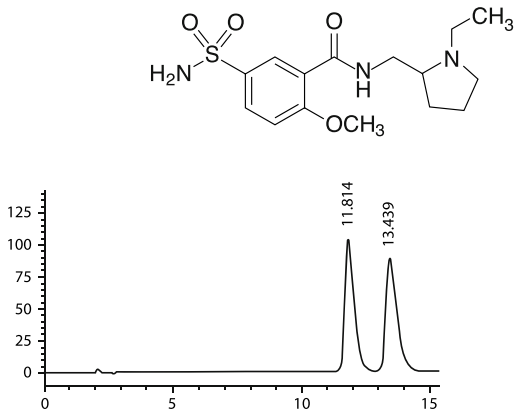
**Detection:** UV 254 nm

**k':** 5.22

**$\alpha$ :** 1.16

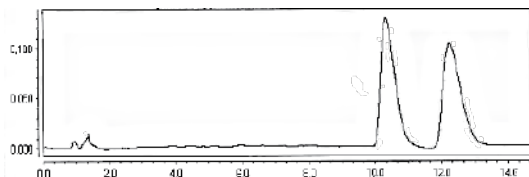
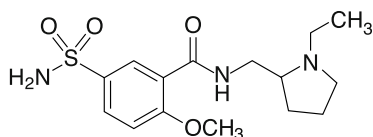
**CAS #:** 15676-16-1

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



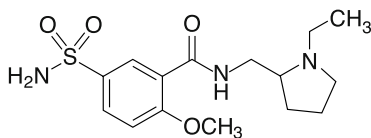
## Sulpiride

**Column:** RegisPack,  
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°C  
**Pressure:** 125 bar  
**Detection:** UV 254 nm  
**k':** 12.76  
 **$\alpha$ :** 1.20  
**Catalog #:** 1-783104-300



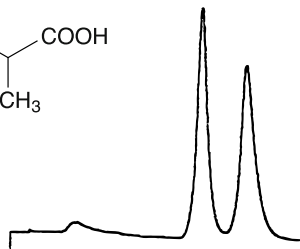
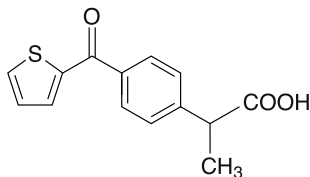
## Sulpiride

**Column:** (R,R) DACH-DNB,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (95/5)  
 $\text{CH}_2\text{Cl}_2/\text{Ethanol}$  + 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  
**Reference:** 46  
**Catalog #:** 1-788101-300

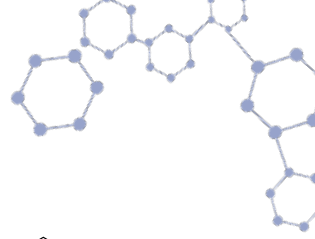


## Suprofen

**Column:** (S,S) Whelk-O 1,  
10  $\mu\text{m}$ , 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  
**Reference:** 46  
**Catalog #:** 1-786615-300

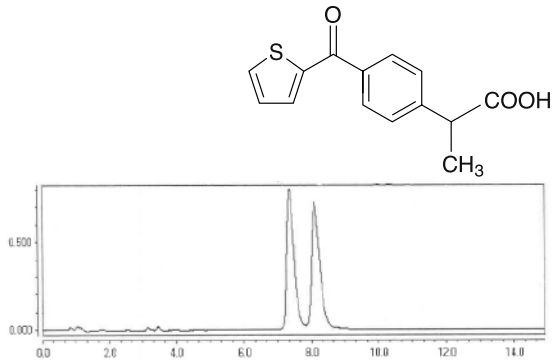






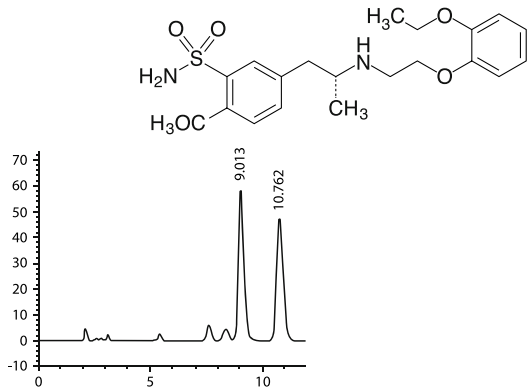
## Suprofen

**Column:** (S,S) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (75/25)  
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'**: 8.82  
 **$\alpha$** : 1.11  
**Catalog #:** 1-780101-300



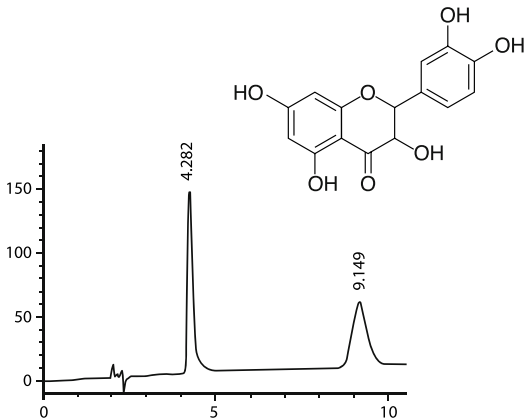
## Tamsulosin

**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:** 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



## 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

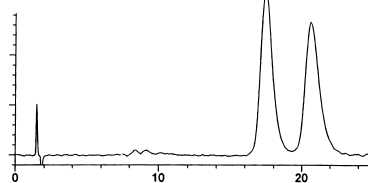
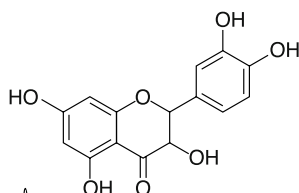
**Detection:** UV 220 nm

**k':** 11.87

**$\alpha$ :** 1.20

**Reference:** 46

**Catalog #:** 1-786447-300



## 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

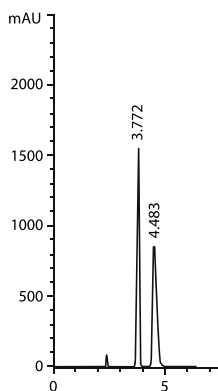
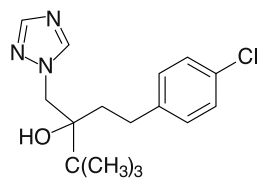
**Detection:** UV 220 nm

**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)  
CO<sub>2</sub>/IPA

**Flow Rate:** 4.0 mL/min

**Temperature:** 40°C

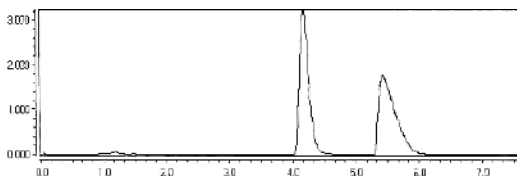
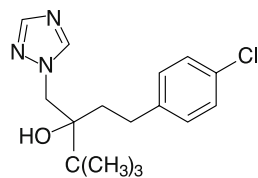
**Pressure:** 124 bar

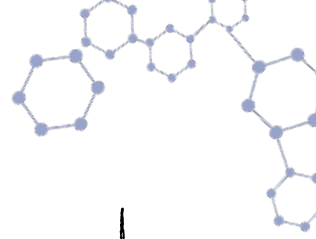
**Detection:** UV 220 nm

**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

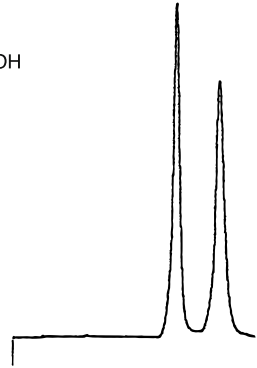
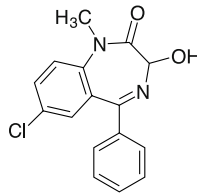
**Run Time:** 13.0 min

**k':** 6.86

**$\alpha$ :** 1.34

**Reference:** 46

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



## 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

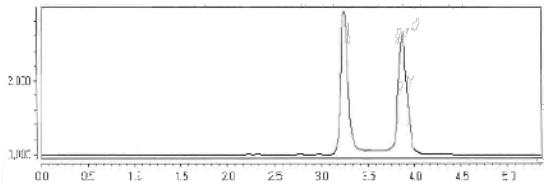
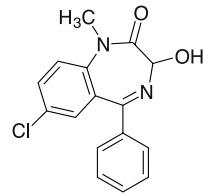
**Pressure:** 125 bar

**Detection:** UV 254 nm

**k':** 3.33

**$\alpha$ :** 1.25

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



## Temazepam

**Column:** 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

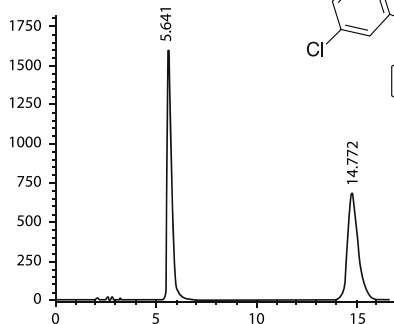
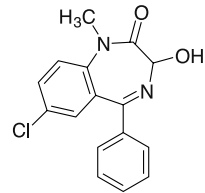
**Detection:** UV 220 nm

**k':** 1.97

**$\alpha$ :** 3.44

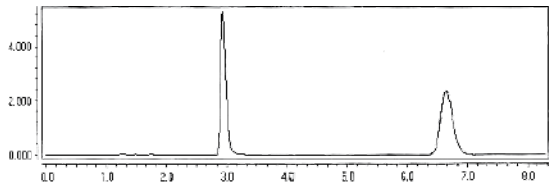
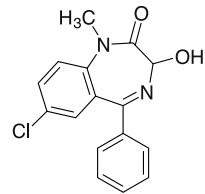
**CAS #:** 846-50-4

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



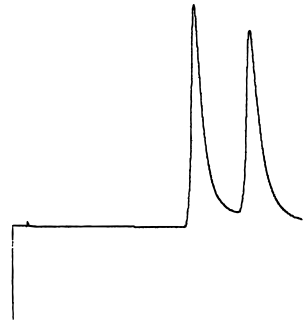
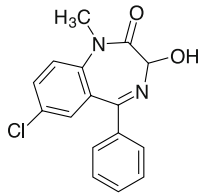
## Temazepam

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (60/40)  
CO<sub>2</sub>/IPA  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40°C  
**Pressure:** 125 bar  
**Detection:** UV 220 nm  
**k'**: 2.92  
 **$\alpha$** : 2.69  
**Catalog #:** 1-783104-300



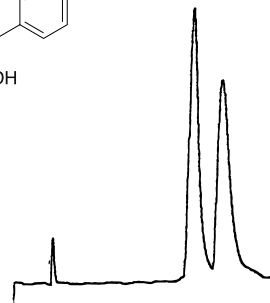
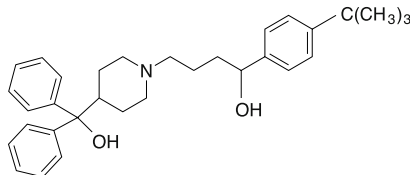
## Temazepam

**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  
**Reference:** 46  
**Catalog #:** 1-787100-300



## Terfenadine

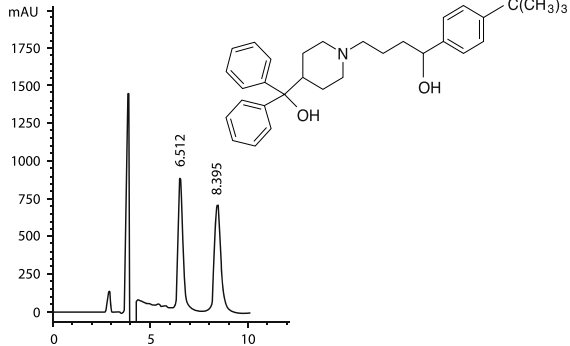
**Column:** (R,R) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (97/3)  
Hexane/Ethanol  
+ 0.01 M Ammonium Acetate  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 15.0 min  
**k'**: 5.91  
 **$\alpha$** : 1.20  
**Reference:** 46  
**Catalog #:** 1-780201-300





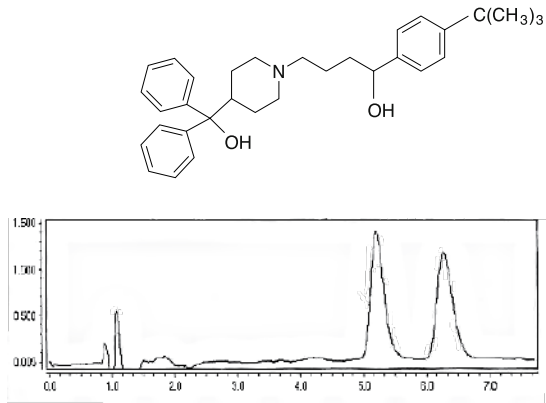
## Terfenadine

**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



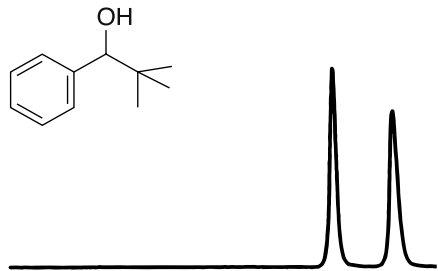
## Terfenadine

**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°C  
**Pressure:** 125 bar  
**Detection:** UV 220 nm  
 **$k'$ :** 5.94  
 **$\alpha$ :** 1.24  
**Catalog #:** 1-783104-300



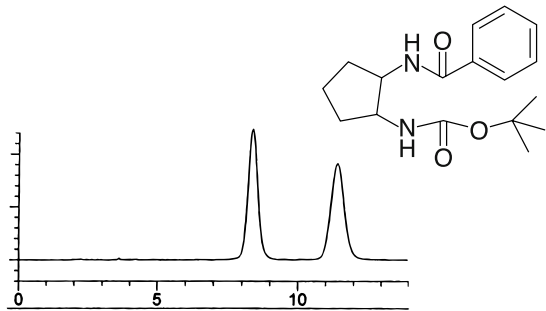
## Tert Butyl Phenyl Carbinol

**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  
**Reference:** 46  
**Catalog #:** 1-787100-300



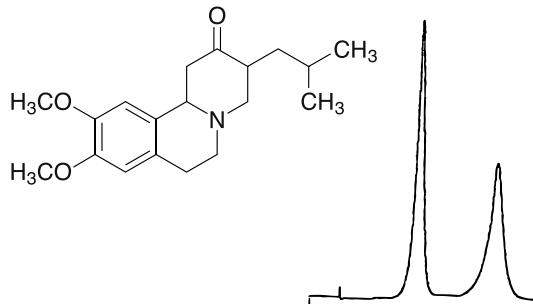
## Tert-butyl-2-(benzamido) cyclopentyl carbamate

**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  
**Reference:** 46  
**Catalog #:** 1-786615-300



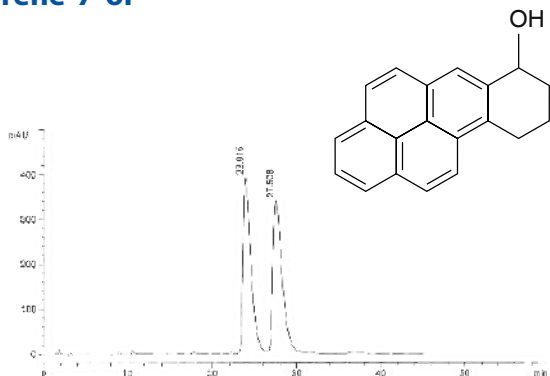
## Tetrabenazine

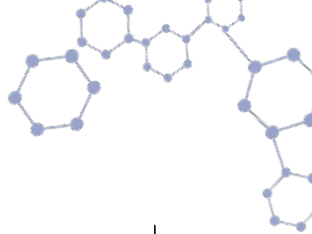
**Column:** (S,S) Whelk-O 1,  
10  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (55/45)  
Hexane/IPA + 0.1% TFA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 280 nm  
**Run Time:** 13.4 min  
**k'**: 3.35  
 **$\alpha$ :** 1.93  
**Reference:** 46  
**Catalog #:** 1-786615-300



## Tetrahydrobenzopyrene-7-ol

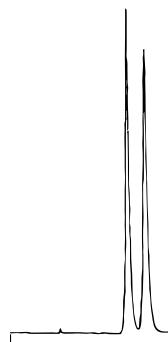
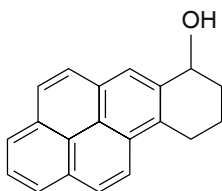
**Column:** (S,S) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (80/20)  
Hexane/IPA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**k'**: 11.39  
 **$\alpha$ :** 1.16  
**Catalog #:** 1-780101-300





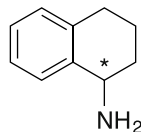
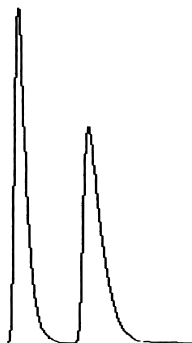
## Tetrahydrobenzopyrene-7-ol

**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  
**Reference:** 18  
**Catalog #:** 1-780101-300,  
1-780201-300



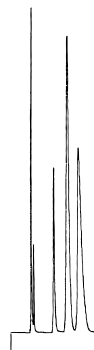
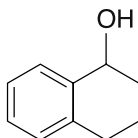
## 1,2,3,4-Tetrahydro-1-naphthylamine

**Column:** ChiroSil,  
5  $\mu\text{m}$ , 15 cm x 4.6 mm  
**Mobile Phase:** (84/16)  
 $\text{CH}_3\text{OH}/\text{H}_2\text{O} + 10 \text{ mM}$   
 $\text{H}_2\text{SO}_4$  & 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  
**Reference:** 46  
**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

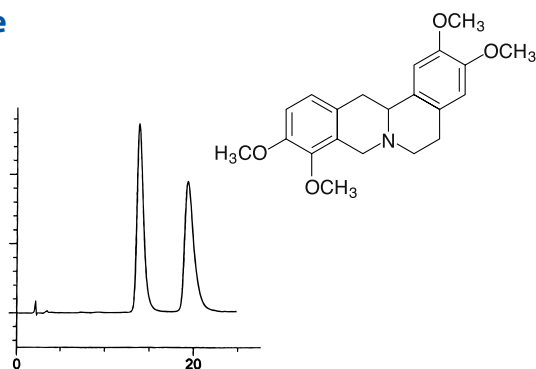
**Detection:** UV 254 nm

**k':** 6.66

**$\alpha$ :** 1.46

**Reference:** 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)

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

**Flow Rate:** 4.0 mL/min

**Temperature:** 40°C

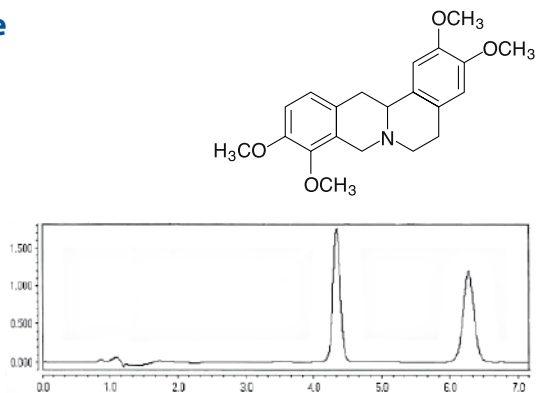
**Pressure:** 125 bar

**Detection:** UV 220 nm

**k':** 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

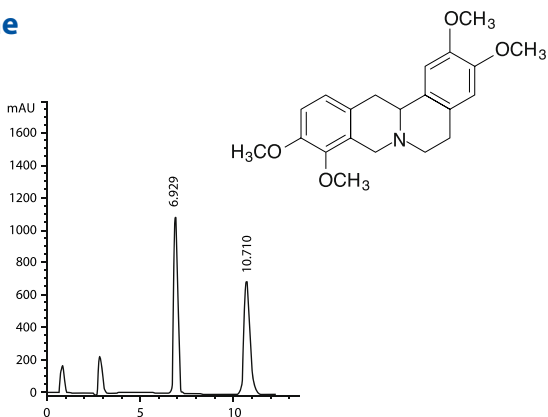
**Detection:** UV 280 nm

**k':** 1.39

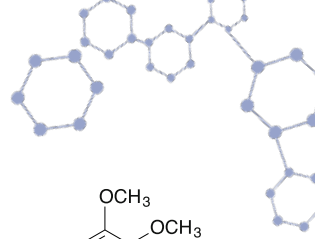
**$\alpha$ :** 1.94

**CAS #:** 10097-84-4

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

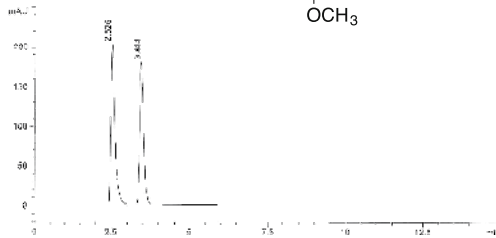
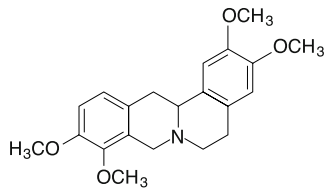






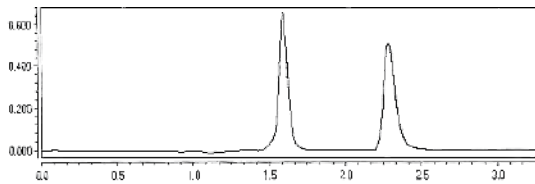
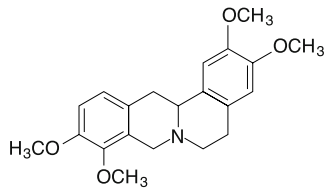
## Tetrahydropalmatine

**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



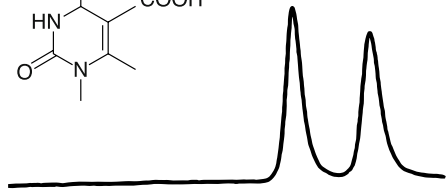
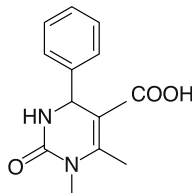
## Tetrahydropalmatine

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (70/30)  
 $\text{CO}_2$ /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:** 48  
**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

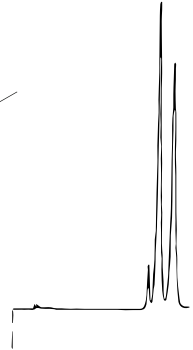
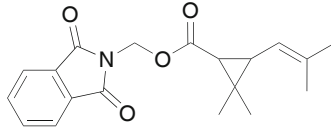
**Run Time:** 22 min

**k':** 11.77

**$\alpha$ :** 1.12

**Reference:** 43

**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

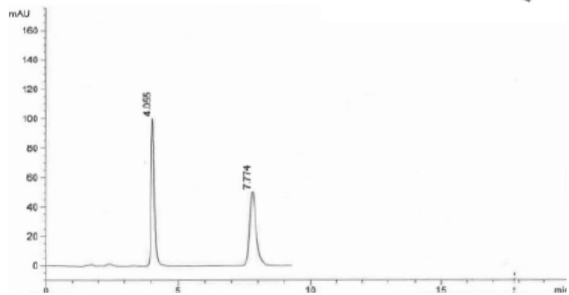
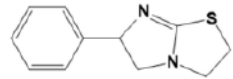
**Flow Rate:** 1.5 mL/min

**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

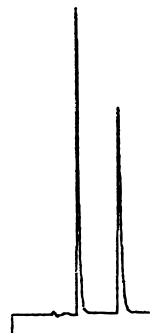
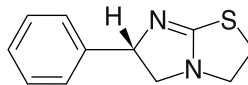
**Run Time:** 7.0 min

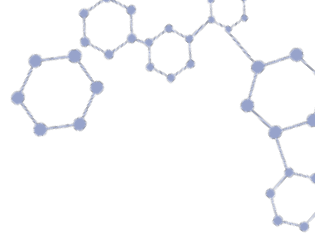
**k':** 0.52

**$\alpha$ :** 2.84

**Reference:** 46

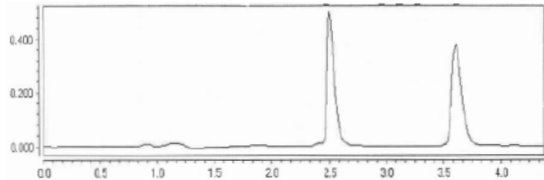
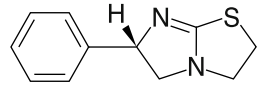
**Catalog #:** 1-780201-300





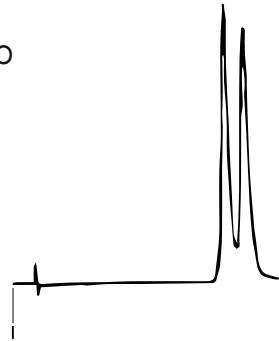
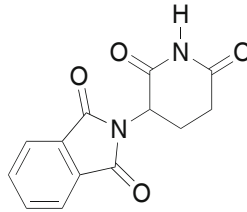
## Tetramisole

**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°C  
**Pressure:** 125 bar  
**Detection:** UV 254 nm  
**k':** 2.34  
 **$\alpha$ :** 1.63  
**Catalog #:** 1-780101-300



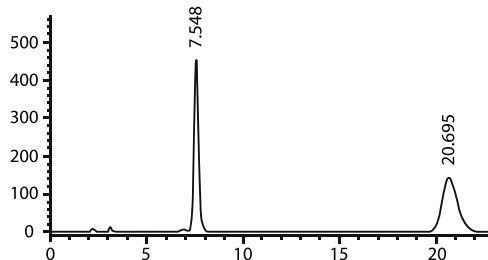
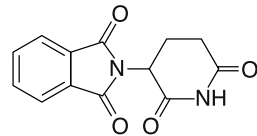
## Thalidomide

**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  
**Reference:** 18  
**Catalog #:** 1-780101-300,  
1-780201-300



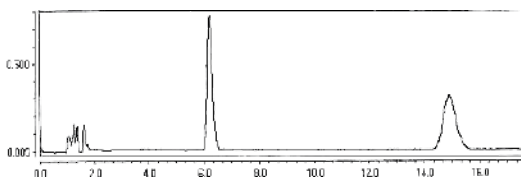
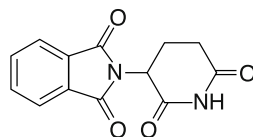
## Thalidomide

**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



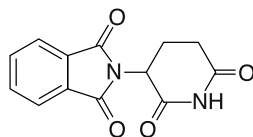
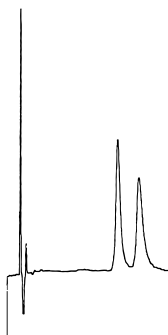
## Thalidomide

**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°C  
**Pressure:** 124 bar  
**Detection:** UV 220 nm  
**k'**: 7.28  
 **$\alpha$** : 2.59  
**Catalog #:** 1-783104-300



## Thalidomide

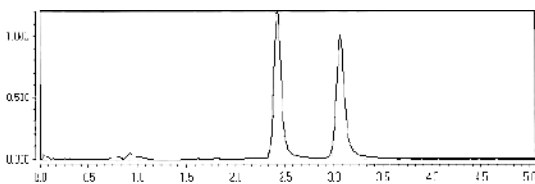
**Column:** (R,R) ULMO,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
Hexane/IPA  
+ 0.1% Acetic Acid  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 220 nm  
**Run Time:** 28.0 min  
**k'**: 7.71  
 **$\alpha$** : 1.22  
**Reference:** 46  
**Catalog #:** 1-787200-300

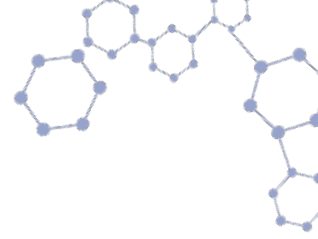


## 1,3-Thiazole

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

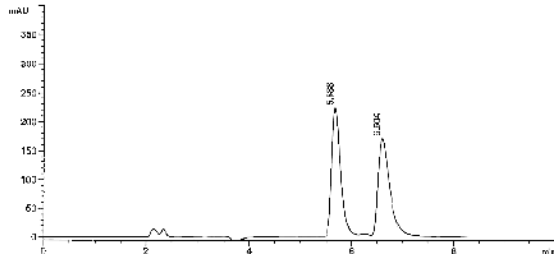




## 1,3-Thiazole

*N*-1-*l*-1,3-thiazol-2-yl-*N*-2-*l*-(2-thienylcarbonyl)valinamide

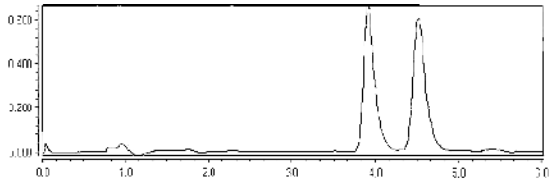
**Column:** RegisPack,  
5  $\mu$ m, 25 cm x 4.6 mm  
**Mobile Phase:** (80/20)  
Hexane/Ethanol  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
**k'**<sub>1</sub>: 1.99  
**k'**<sub>2</sub>: 2.47  
 **$\alpha$** : 1.24  
**Catalog #:** 1-783104-300



## 1,3-Thiazole

*N*-1-*l*-1,3-thiazol-2-yl-*N*-2-*l*-(2-thienylcarbonyl)valinamide

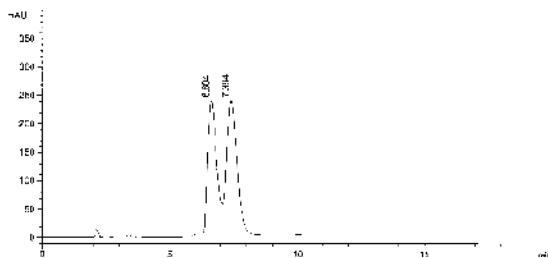
**Column:** RegisPack, 5  $\mu$ m, 25 cm x 4.6 mm  
**Mobile Phase:** (65/35)  
CO<sub>2</sub>/IPA  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40°C  
**Pressure:** 124 bar  
**Detection:** UV 220 nm  
**k'**<sub>1</sub>: 4.21  
**k'**<sub>2</sub>: 5.03  
 **$\alpha$** : 1.19  
**Catalog #:** 1-783104-300



## 1,3-Thiazole

*N*-1-*l*-1,3-thiazol-2-yl-*N*-2-*l*-(2-thienylcarbonyl)valinamide

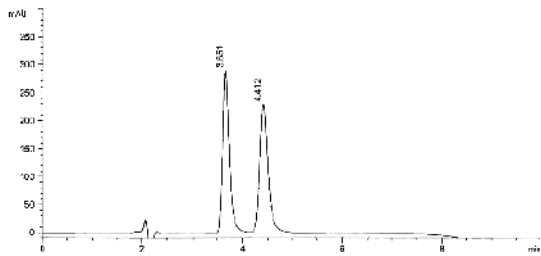
**Column:** RegisCell,  
5  $\mu$ m, 25 cm x 4.6 mm  
**Mobile Phase:** (96/4)  
Hexane/IPA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
**k'**<sub>1</sub>: 2.47  
**k'**<sub>2</sub>: 2.89  
 **$\alpha$** : 1.17  
**Catalog #:** 1-784104-300



## 1,3-Thiazole

*ethyl (2-[[2-(4-methoxyphenoxy)propanoyl]amino]-1,3-thiazol-4-yl)acetate*

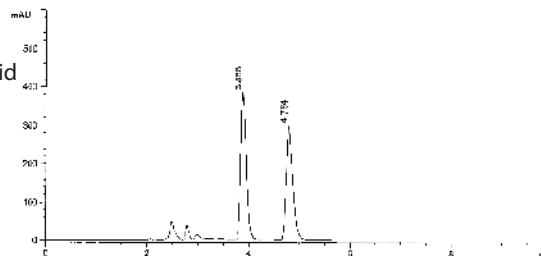
**Column:** (S,S) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (50/50)  
Hexane/IPA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
**k'**<sub>1</sub>: 0.92  
**k'**<sub>2</sub>: 1.32  
 **$\alpha$** : 1.43  
**Catalog #:** 1-787200-300



## 1,3-Thiazole

*ethyl (2-[[2-(4-methoxyphenoxy)propanoyl]amino]-1,3-thiazol-4-yl)acetate*

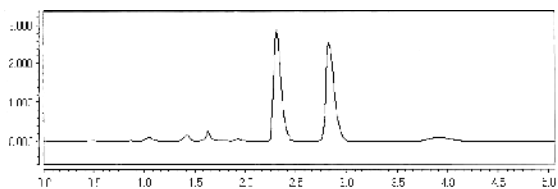
**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (50/50)  
Hexane/IPA + 0.1% Acetic Acid  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
**k'**<sub>1</sub>: 1.97  
 **$\alpha$** : 3.44  
**CAS #:** 846-50-4  
**Catalog #:** 1-783104-300

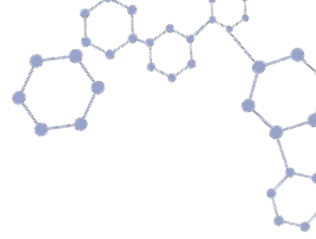


## 1,3-Thiazole

*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-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

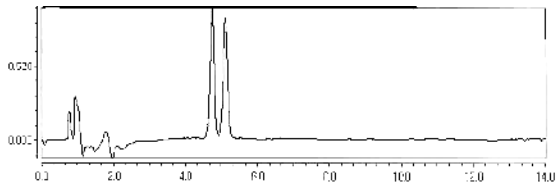
**Detection:** UV 220 nm

**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-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

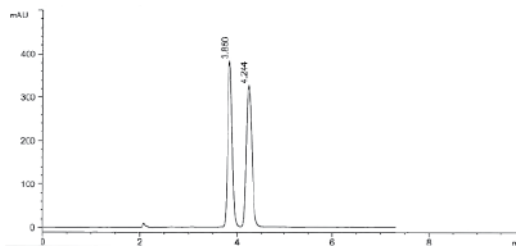
**Detection:** UV 220 nm

**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

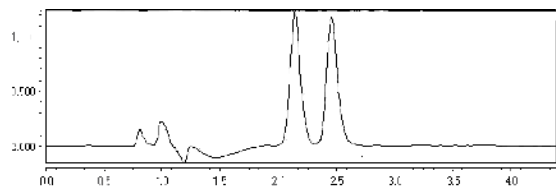
**Detection:** UV 220 nm

**k'**<sub>1</sub>: 1.85

**k'**<sub>2</sub>: 2.28

**$\alpha$** : 1.23

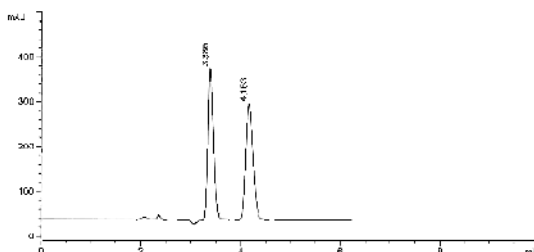
**Catalog #:** 1-783104-300



## 1,3-Thiazole

*ethyl {2-[(2-phenoxybutanoyl)amino]-1,3-thiazol-4-yl}acetate*

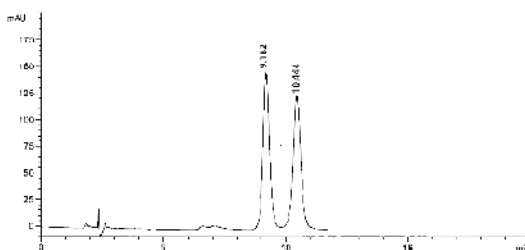
**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (80/20)  
Hexane/IPA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
**k'1:** 0.78  
**k'2:** 1.19  
 **$\alpha$ :** 1.53  
**Catalog #:** 1-784104-300



## 1,3-Thiazole

*2-(4-bromophenoxy)-N-1,3-thiazol-2-ylpropanamide*

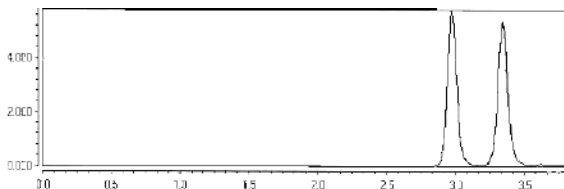
**Column:** (S,S) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (70/30)  
Hexane/IPA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
**k'1:** 3.83  
**k'2:** 4.49  
 **$\alpha$ :** 1.17  
**Catalog #:** 1-780101-300



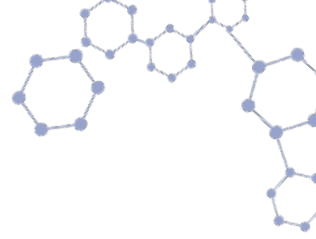
## 1,3-Thiazole

*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'1:** 2.96  
**k'2:** 3.47  
 **$\alpha$ :** 1.17  
**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:** (80/20)  
Hexane/Ethanol

**Flow Rate:** 1.5 mL/min

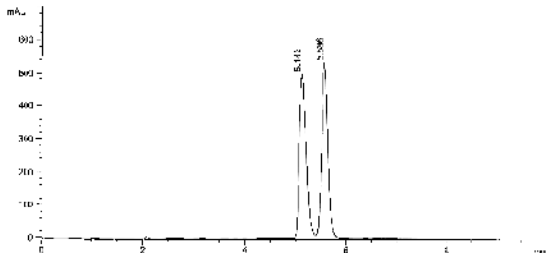
**Detection:** UV 220 nm

**$k'_1$ :** 2.54

**$k'_2$ :** 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)  
 $\text{CO}_2$ /Ethanol

**Flow Rate:** 4.0 mL/min

**Temperature:** 40°C

**Pressure:** 125 bar

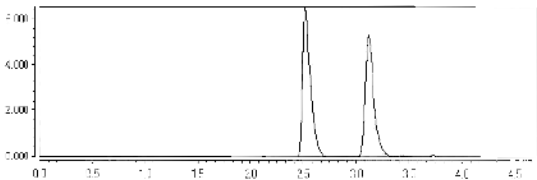
**Detection:** UV 254 nm

**$k'_1$ :** 2.36

**$k'_2$ :** 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

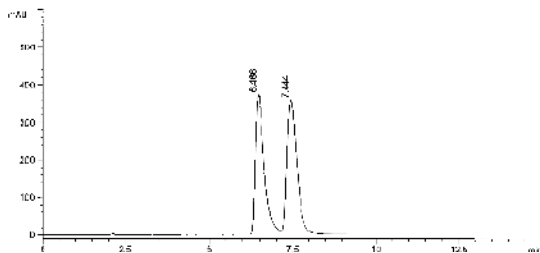
**Detection:** UV 220 nm

**$k'_1$ :** 2.41

**$k'_2$ :** 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)

CO<sub>2</sub>/IPA

**Flow Rate:** 4.0 mL/min

**Temperature:** 40°C

**Pressure:** 124 bar

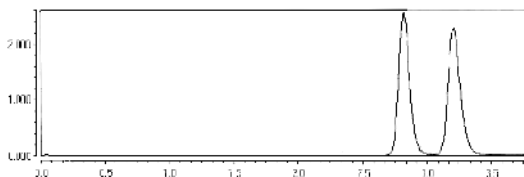
**Detection:** UV 254 nm

**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

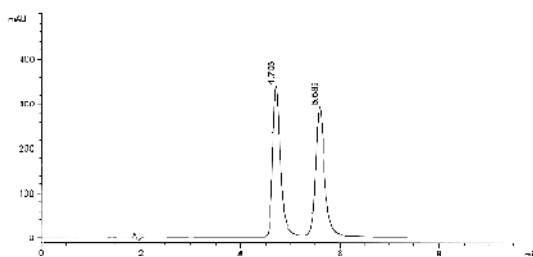
**Detection:** UV 220 nm

**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

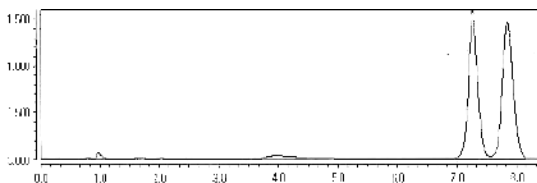
**Detection:** UV 220 nm

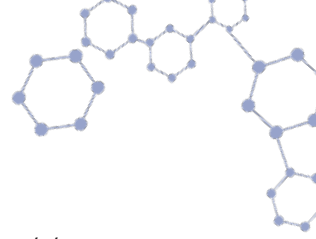
**k'**<sub>1</sub>: 8.69

**k'**<sub>2</sub>: 9.48

**$\alpha$** : 1.09

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

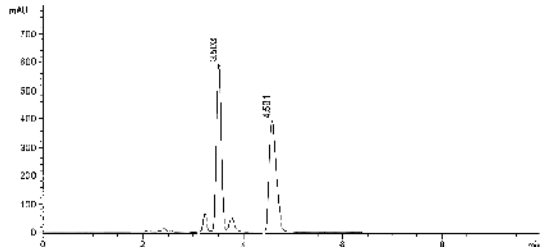




## 1,3-Thiazole

*ethyl (2-[[2-(4-bromophenoxy)propanoyl]amino]-1,3-thiazol-4-yl)acetate*

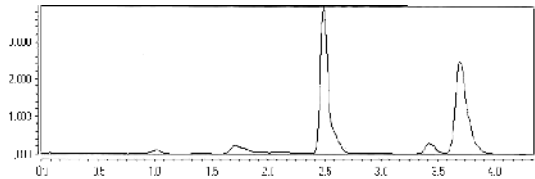
**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (60/40)  
Hexane/Ethanol  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
**k'1:** 0.84  
**k'2:** 1.41  
 **$\alpha$ :** 1.68  
**Catalog #:** 1-783104-300



## 1,3-Thiazole

*ethyl (2-[[2-(4-bromophenoxy)propanoyl]amino]-1,3-thiazol-4-yl)acetate*

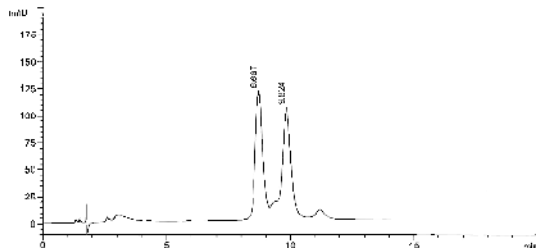
**Column:** RegisPack, 5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (75/25) CO<sub>2</sub>/Ethanol  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40°C  
**Pressure:** 124 bar  
**Detection:** UV 220 nm  
**k'1:** 2.32  
**k'2:** 3.93  
 **$\alpha$ :** 1.69  
**Catalog #:** 1-783104-300



## 1,3-Thiazole

*3-(4-chlorobenzyl)-1-(1,3-thiazol-2-yl)-2,5-pyrrolidinedione*

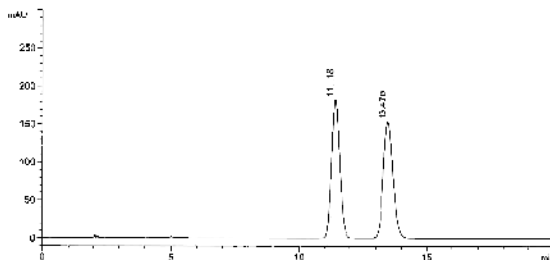
**Column:** (S,S) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (70/30)  
Hexane/IPA  
**Flow Rate:** 2.0 mL/min  
**Detection:** UV 220 nm  
**k'1:** 5.00  
**k'2:** 5.78  
 **$\alpha$ :** 1.16  
**Catalog #:** 1-780101-300



## 1,3-Thiazole

3-(4-chlorobenzyl)-1-(1,3-thiazol-2-yl)-2,5-pyrrolidinedione

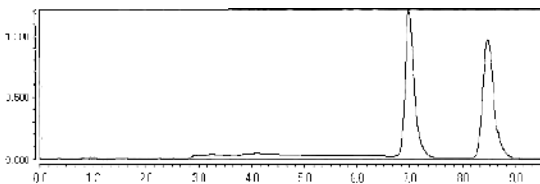
**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (65/35)  
Hexane/Ethanol  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
**k'1:** 5.01  
**k'2:** 6.09  
 **$\alpha$ :** 1.22  
**Catalog #:** 1-783104-300



## 1,3-Thiazole

3-(4-chlorobenzyl)-1-(1,3-thiazol-2-yl)-2,5-pyrrolidinedione

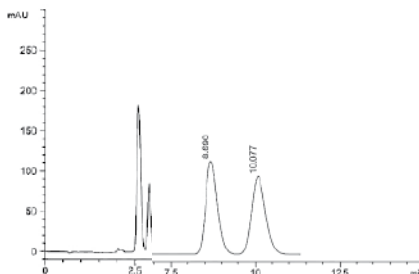
**Column:** RegisPack, 5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (70/30) CO<sub>2</sub>/Ethanol  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40°C  
**Pressure:** 126 bar  
**Detection:** UV 220 nm  
**k'1:** 8.33  
**k'2:** 10.29  
 **$\alpha$ :** 1.24  
**Catalog #:** 1-783104-300

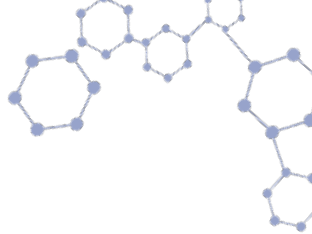


## 1,3-Thiazole

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

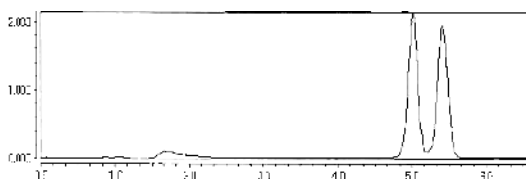
**Detection:** UV 220 nm

**k'<sub>1</sub>:** 5.68

**k'<sub>2</sub>:** 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-pyrrrol-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

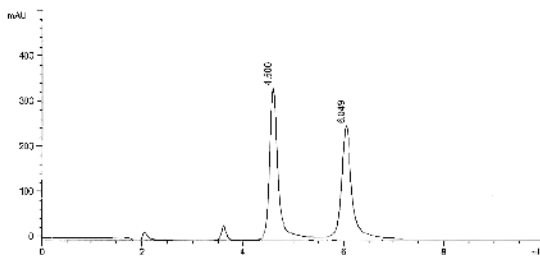
**Detection:** UV 220 nm

**k'<sub>1</sub>:** 1.27

**k'<sub>2</sub>:** 2.18

**$\alpha$ :** 1.72

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



## DL-Thienylalnine

**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

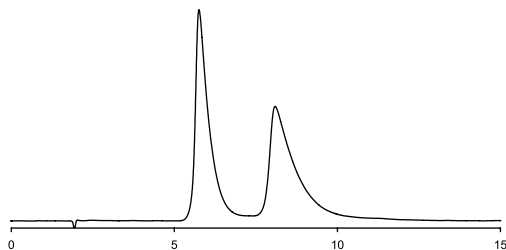
**Detection:** UV 210 nm

**Temperature:** 0°C

**k':** 1.96

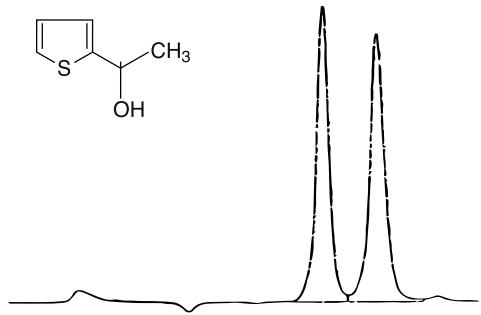
**$\alpha$ :** 1.61

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



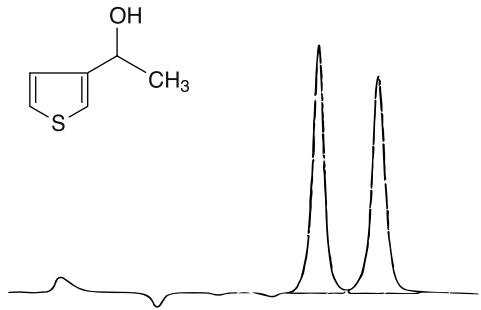
## 2-Thiopheneethanol

**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:** 60  
**Catalog #:** 1-787100-300



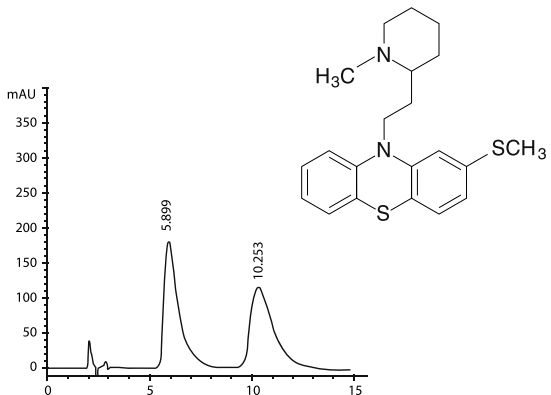
## 3-Thiopheneethanol

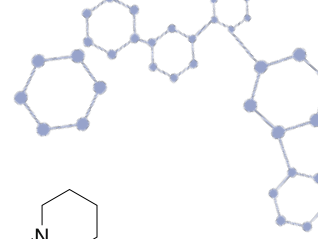
**Column:** (S,S) ULMO,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (98.5/1.5)  
n-Heptane/1,2-Dimethoxyethane  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 11.5 min  
**k'**: 2.42  
 **$\alpha$ :** 1.13  
**Reference:** 60  
**Catalog #:** 1-78700-300



## Thioridazine

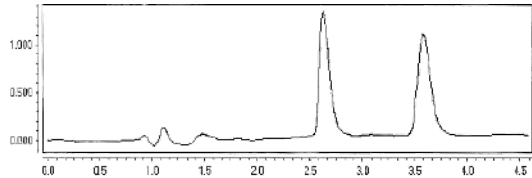
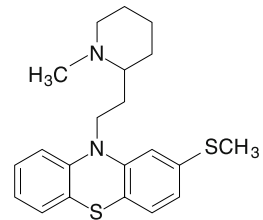
**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (80/20)  
Hexane/Ethanol  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**k'**: 2.11  
 **$\alpha$ :** 2.08  
**CAS #:** 50-52-2  
**Catalog #:** 1-783104-300





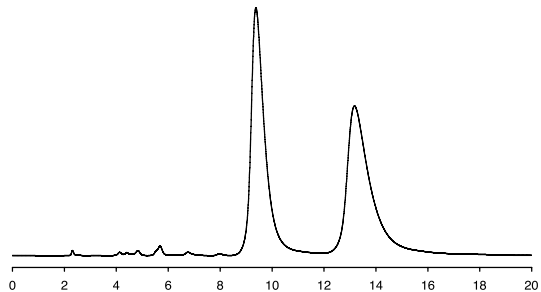
## Thioridazine

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (70/30)  
CO<sub>2</sub>/Ethanol + 0.5% DEA  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40°C  
**Pressure:** 124 bar  
**Detection:** UV 220 nm  
**k'**: 2.50  
 **$\alpha$** : 1.51  
**Catalog #:** 1-783104-300



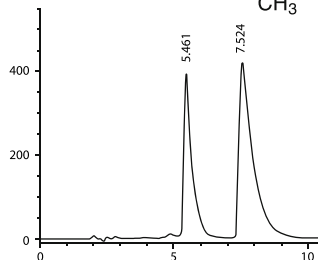
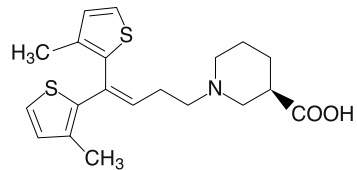
## DL-Thr

**Column:** ChiroSil ME RCA(+),  
5  $\mu\text{m}$ , 15 cm x 4.6 mm  
**Mobile Phase:** (50/50)  
5 mM HClO<sub>4</sub> Acid/MeOH  
**Flow Rate:** 0.5 mL/min  
**Detection:** UV 210 nm  
**Temperature:** 20°C  
**k'**: 1.47  
 **$\alpha$** : 1.68  
**Rs:** 5.45  
**Catalog #:** 1-788001-300



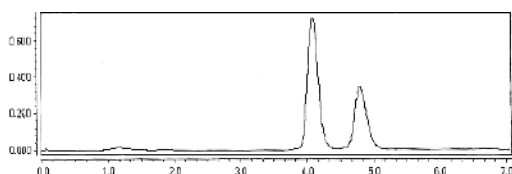
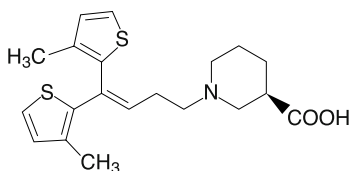
## Tiagabine

**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



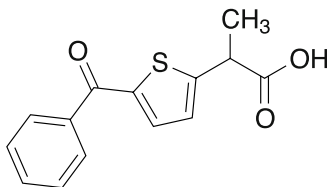
## Tiagabine

**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°C  
**Pressure:** 125 bar  
**Detection:** UV 254 nm  
**k'**: 4.44  
 **$\alpha$** : 1.22  
**Catalog #:** 1-784104-300



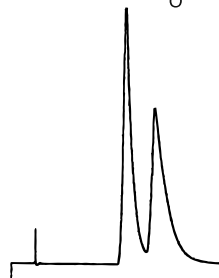
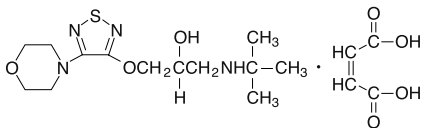
## Tiaprofenic Acid

**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

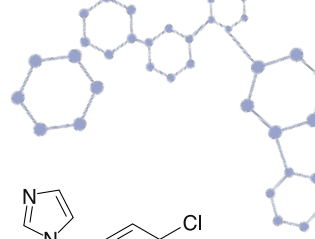


## Timolol Maleate

**Column:** (3R,4S) Pirkle 1-J,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (94/3/3)  
 $\text{CH}_2\text{Cl}_2/\text{Ethanol}/\text{IPA}$   
+ 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  
**Reference:** 46  
**Catalog #:** 1-71044-300

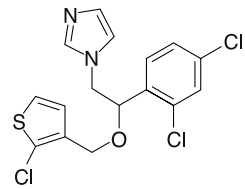
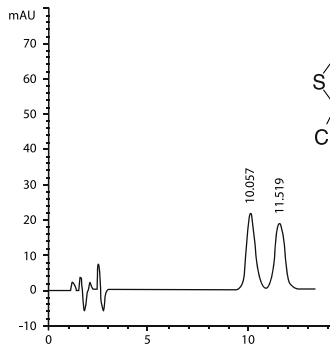






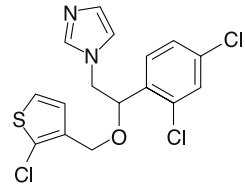
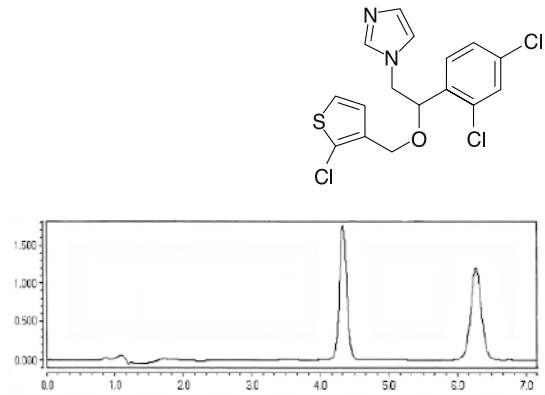
## Tioconazole

**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'**: 4.29  
 **$\alpha$** : 1.18  
**CAS #:** 65899-73-2  
**Catalog #:** 1-784104-300



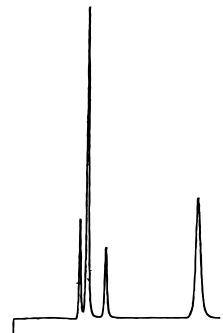
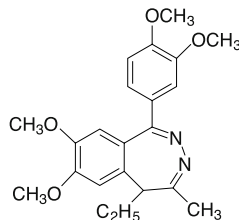
## Tioconazole

**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (80/20)  
 $\text{CO}_2$ /IPA + 0.5% DEA  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40°C  
**Pressure:** 125 bar  
**Detection:** UV 220 nm  
**k'**: 4.63  
 **$\alpha$** : 1.14  
**Catalog #:** 1-784104-300



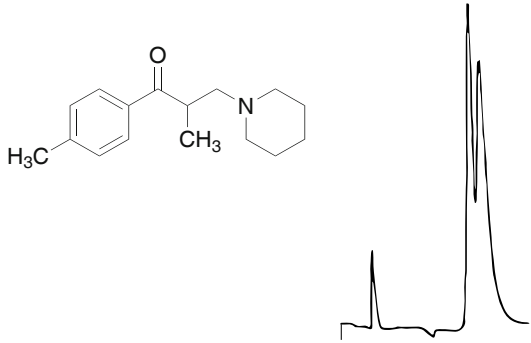
## Tofisopam and its Conformers

**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  
**Reference:** 46  
**Catalog #:** 1-731043-300



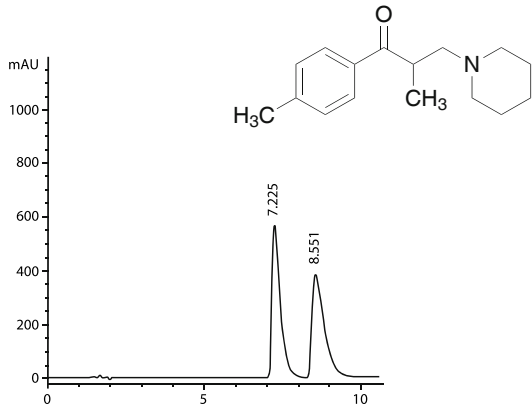
## Tolperisone

**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  
**Reference:** 18  
**Catalog #:** 1-780101-300,  
1-780201-300



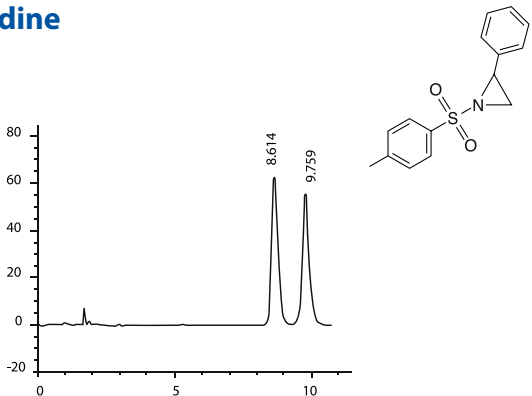
## Tolperisone

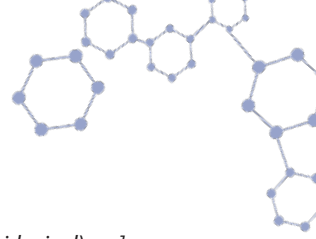
**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (96/4)  
Hexane/Ethanol + 0.1% TFA  
**Flow Rate:** 2.0 mL/min  
**Detection:** UV 254 nm  
**k':** 3.98  
 **$\alpha$ :** 1.23  
**CAS #:** 728-88-1  
**Catalog #:** 1-783104-300



## 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





## 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

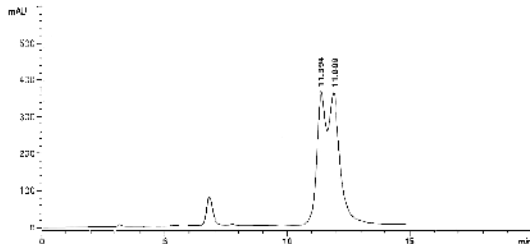
**Detection:** UV 220 nm

**k':** 2.93

**k':** 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

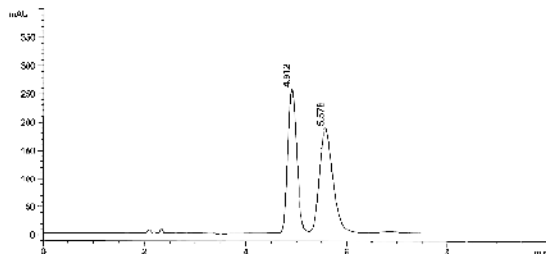
**Detection:** UV 220 nm

**k':** 1.58

**k':** 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

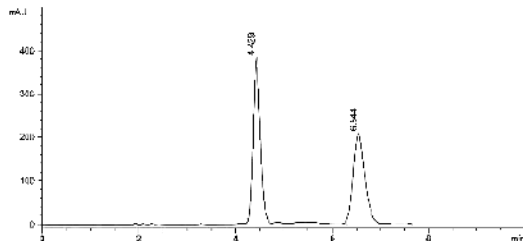
**Detection:** UV 220 nm

**k':** 1.33

**k':** 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°C

**Pressure:** 126 bar

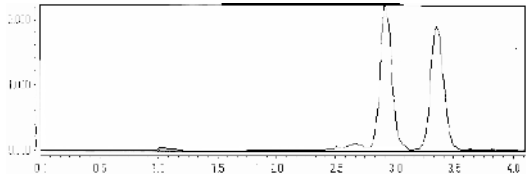
**Detection:** UV 220 nm

**k'1:** 2.89

**k'2:** 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

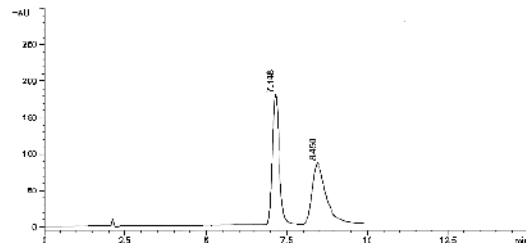
**Detection:** UV 220 nm

**k'1:** 2.76

**k'2:** 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

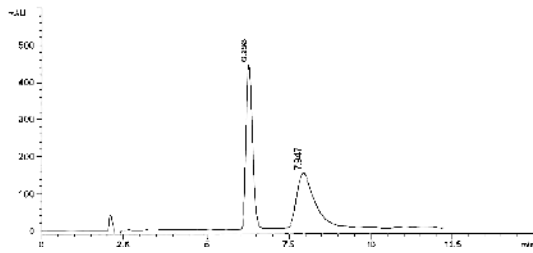
**Detection:** UV 220 nm

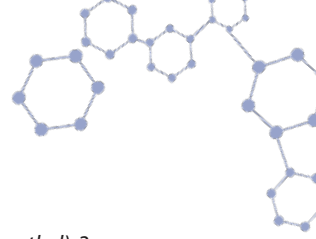
**k'1:** 2.31

**k'2:** 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

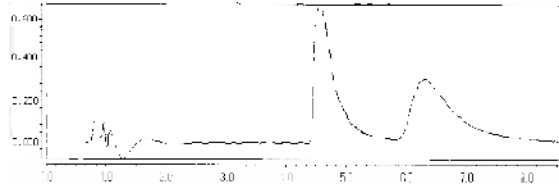
**Detection:** UV 220 nm

**k'**: 5.09

**k'₂:** 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

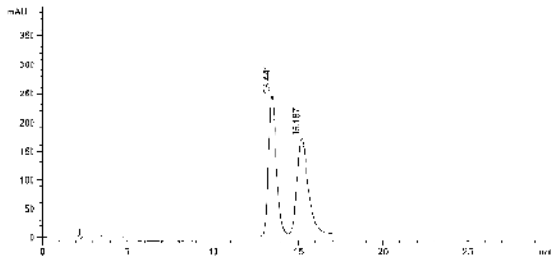
**Detection:** UV 220 nm

**k'**: 6.07

**k'₂:** 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

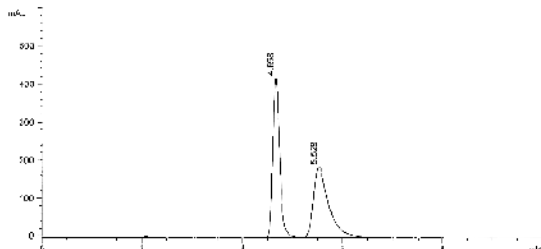
**Detection:** UV 220 nm

**k'**: 1.45

**k'₂:** 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°C

**Pressure:** 125 bar

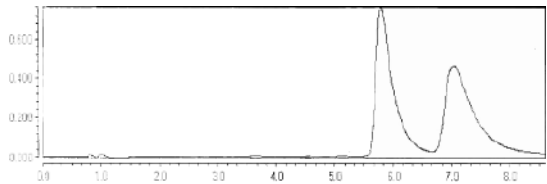
**Detection:** UV 254 nm

**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

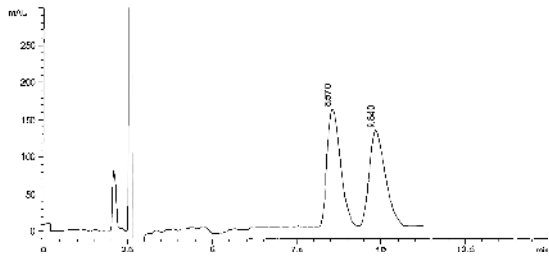
**Detection:** UV 220 nm

**k'1:** 3.51

**k'2:** 4.18

**$\alpha$ :** 1.19

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



## 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

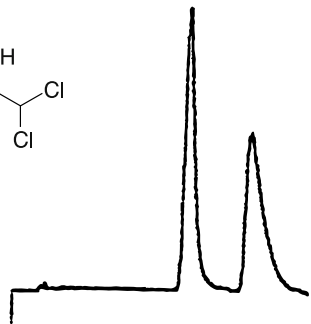
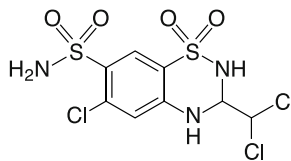
**Run Time:** 15.0 min

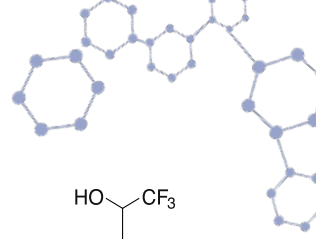
**k'1:** 5.16

**$\alpha$ :** 1.43

**Reference:** 46

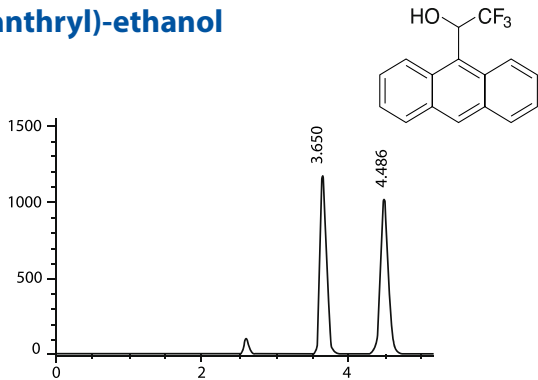
**Catalog #:** 1-787200-300





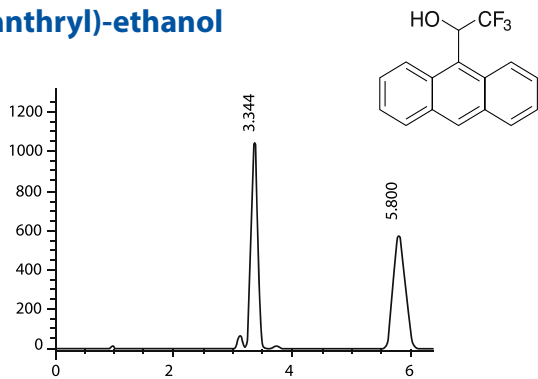
## 2,2,2-Trifluoro-1-(9-anthryl)-ethanol

**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



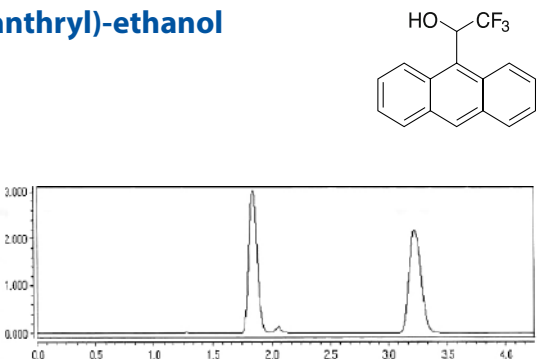
## 2,2,2-Trifluoro-1-(9-anthryl)-ethanol

**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



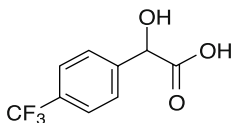
## 2,2,2-Trifluoro-1-(9-anthryl)-ethanol

**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°C  
**Pressure:** 124 bar  
**Detection:** UV 254 nm  
 **$k'_1$ :** 1.46  
 **$\alpha_1$ :** 2.27  
**Catalog #:** 1-784104-300



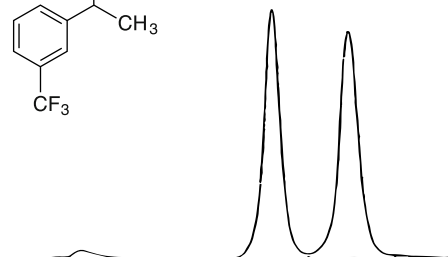
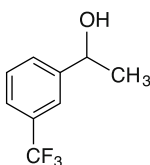
## 4-(Trifluoromethyl)mandelic Acid

**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  
**Reference:** 46  
**Catalog #:** 1-780101-300



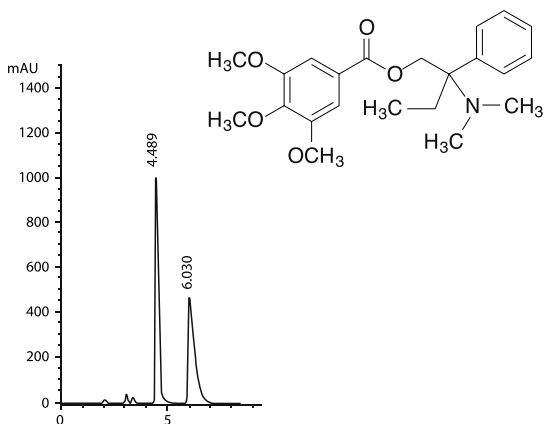
## 1-(m-Trifluoromethylphenyl) Ethanol

**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:** 60  
**Catalog #:** 1-787100-300

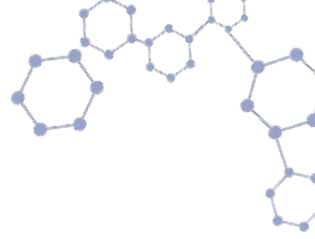


## Trimebutine

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (80/20)  
Hexane Ethanol + 0.1% TFA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**k':** 1.36  
 **$\alpha$ :** 1.60  
**CAS #:** 39133-31-8  
**Catalog #:** 1-783104-300

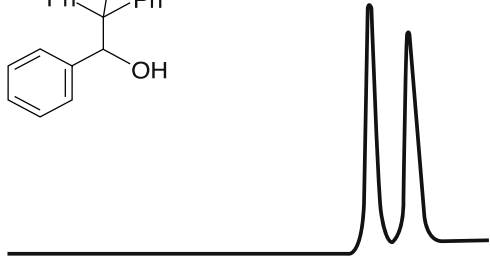
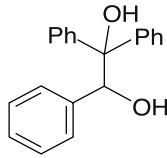






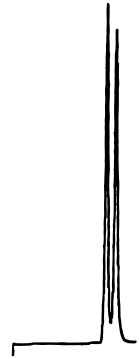
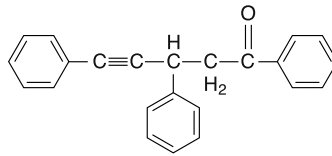
## 1,1,2,-Triphenyl-1,2-Ethanediol

**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':** 2.59  
 **$\alpha$ :** 1.14  
**Reference:** 48  
**Catalog #:** 1-787200-300



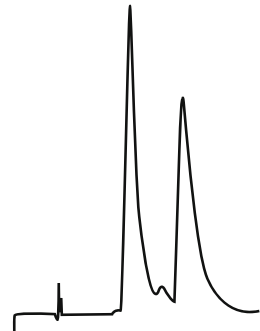
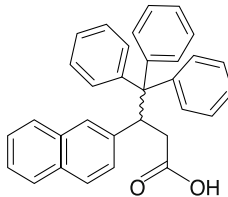
## 1,3,5-Triphenylpent-4-yn-1-one

**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':** 1.19  
 **$\alpha$ :** 1.19  
**Reference:** 46  
**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  
**Reference:** 46  
**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

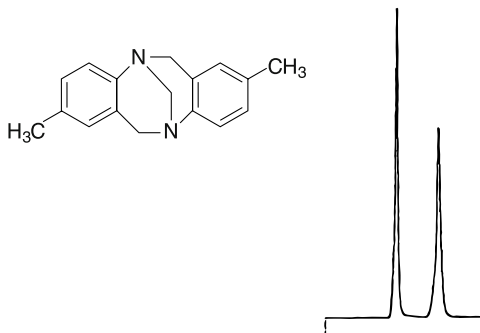
**Run Time:** 10.0 min

**$k'$ :** 2.52

**$\alpha$ :** 1.80

**Reference:** 46

**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)  
 $\text{CO}_2$ /Ethanol

**Flow Rate:** 4.0 mL/min

**Temperature:** 40°C

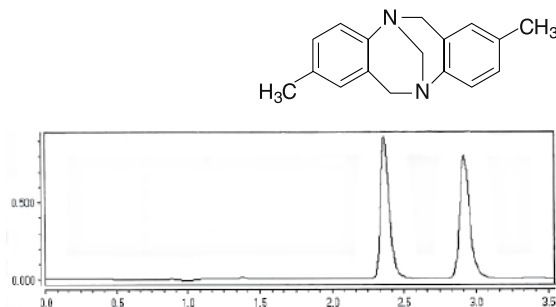
**Pressure:** 125 bar

**Detection:** UV 254 nm

**$k'$ :** 2.13

**$\alpha$ :** 1.34

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



## Troger's Base

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

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

**Flow Rate:** 1.5 mL/min

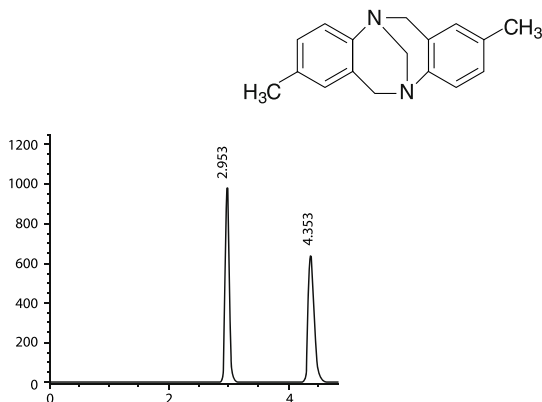
**Detection:** UV 254 nm

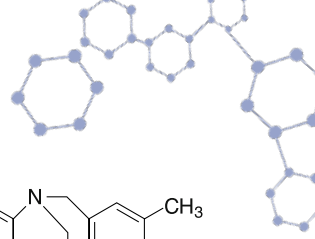
**$k'$ :** 0.55

**$\alpha$ :** 2.33

**CAS #:** 529-81-7

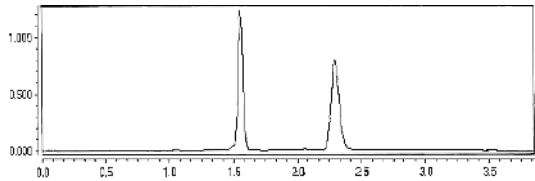
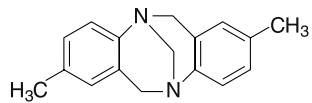
**Catalog #:** 1-783104-300





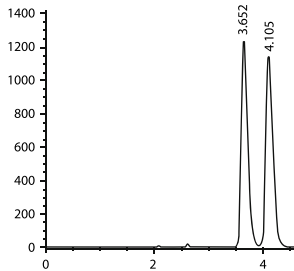
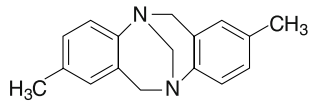
## Troger's Base

**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'**: 1.08  
 **$\alpha$ :** 1.91  
**Catalog #:** 1-783104-300



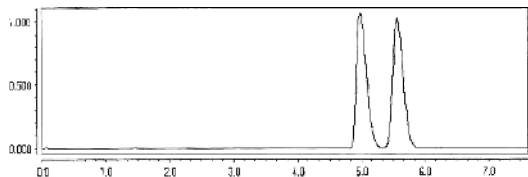
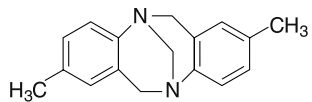
## Troger's Base

**Column:** Regis Cell,  
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'**: 0.92  
 **$\alpha$ :** 1.26  
**CAS #:** 529-81-7  
**Catalog #:** 1-784104-300



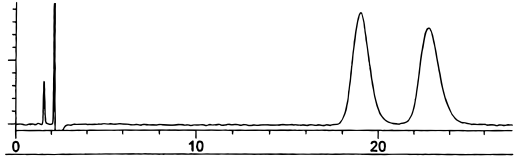
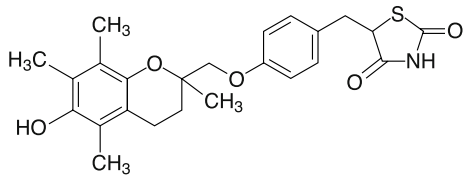
## Troger's Base

**Column:** RegisCell,  
5  $\mu\text{m}$ , 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



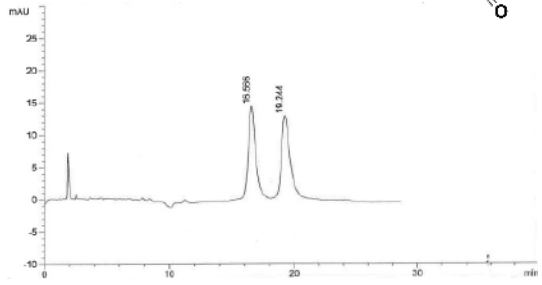
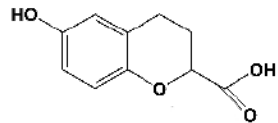
## Troglitazone

**Column:** (S,S) Whelk-O 1,  
10  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
Hexane/IPA  
+ 0.1% Acetic Acid  
**Flow Rate:** 2.0 mL/min  
**Detection:** UV 220 nm  
**k':** 13.05  
 **$\alpha$ :** 1.22  
**Reference:** 46  
**Catalog #:** 1-786615-300



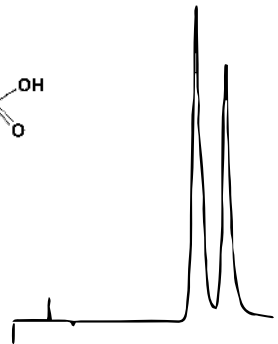
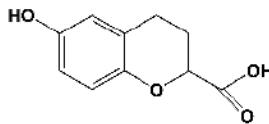
## Trolox

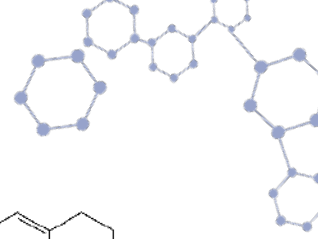
**Column:** (S,S) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (95/5)  
Hexane/Ethanol + 0.1 %  
DEA + 0.1% Acetic Acid  
**Flow Rate:** 2.0 mL/min  
**Detection:** UV 254 nm  
**k':** 7.58  
 **$\alpha$ :** 1.18  
**Catalog #:** 1-780101-300



## Trolox

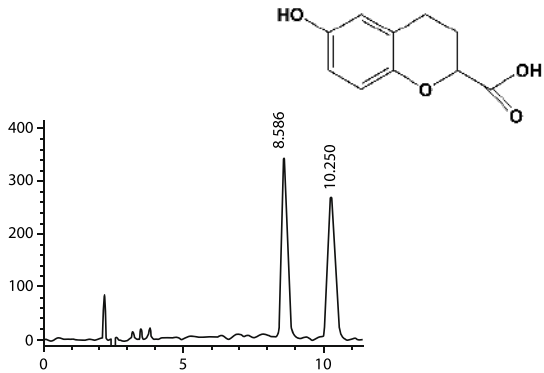
**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (95/5)  
Hexane/IPA + 0.1 % HOAc  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 19 min  
**k':** 5.09  
 **$\alpha$ :** 1.21  
**Reference:** 18  
**Catalog #:** 1-780101-300,  
1-780201-300





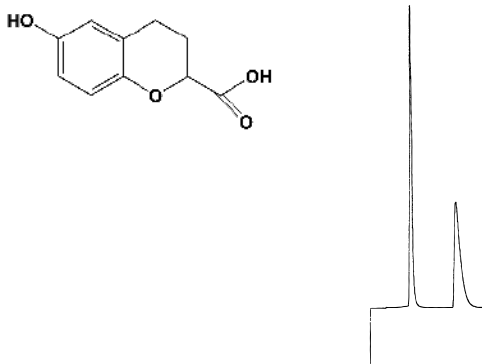
## Trolox

**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



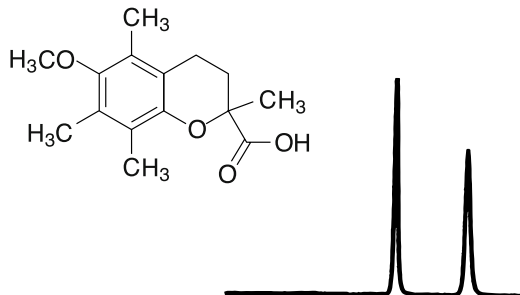
## Trolox

**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  
**Reference:** 46  
**Catalog #:** 1-787200-300



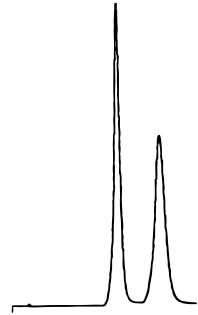
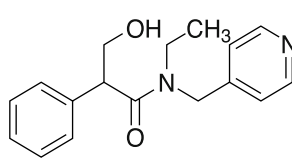
## Trolox-methylether

**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:** 48  
**Catalog #:** 1-787100-300



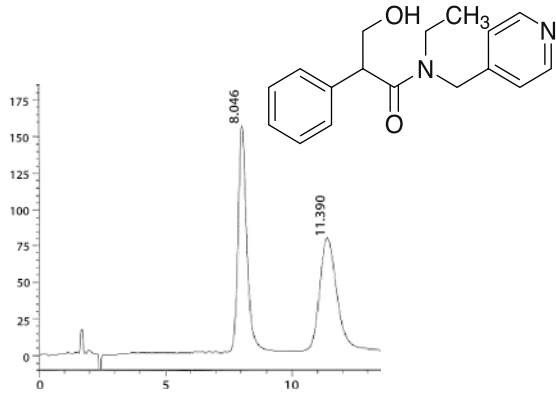
## Tropicamide

**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  
**Reference:** 46  
**Catalog #:** 1-786515-300



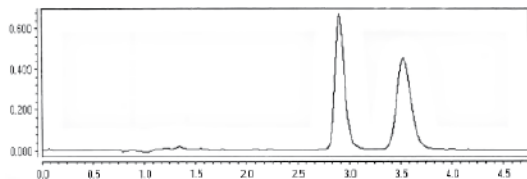
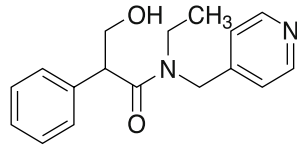
## Tropicamide

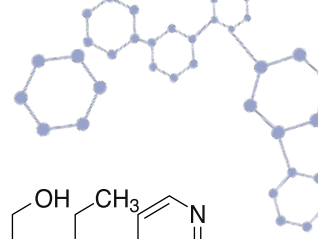
**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (70/30)  
Hexane/Ethanol  
+ 0.1% Acetic Acid  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
**k':** 3.17  
 **$\alpha$ :** 1.55  
**Catalog #:** 1-780101-300,  
1-780201-300



## Tropicamide

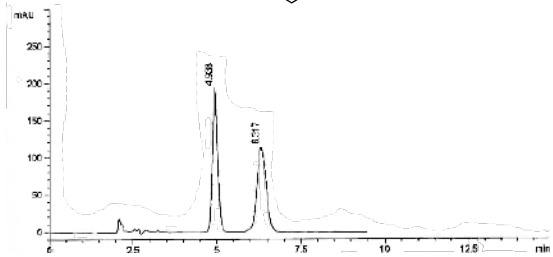
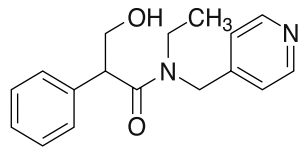
**Column:** (S,S) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (70/30)  
CO<sub>2</sub>/Ethanol + 0.5% Acetic Acid  
**Flow Rate:** 4.0 mL/min  
**Temperature:** 40°C  
**Pressure:** 125 bar  
**Detection:** UV 254 nm  
**k':** 2.88  
 **$\alpha$ :** 1.29  
**Catalog #:** 1-780101-300





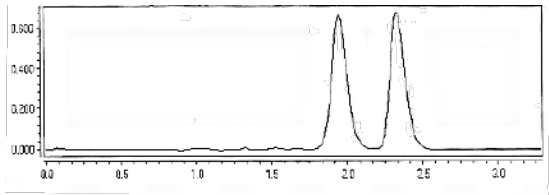
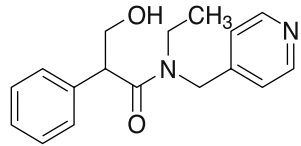
## Tropicamide

**Column:** 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'**<sub>1</sub>: 1.56  
**k'**<sub>2</sub>: 2.46  
 **$\alpha$** : 1.58  
**Catalog #:** 1-783104-300



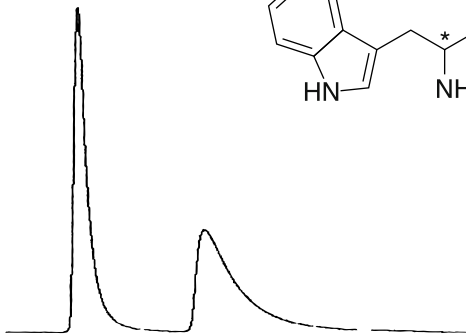
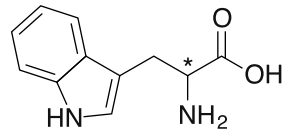
## Tropicamide

**Column:** RegisPack,  
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:** 124 bar  
**Detection:** UV 254 nm  
**k'**<sub>1</sub>: 1.59  
 **$\alpha$** : 1.32  
**Catalog #:** 1-783104-300



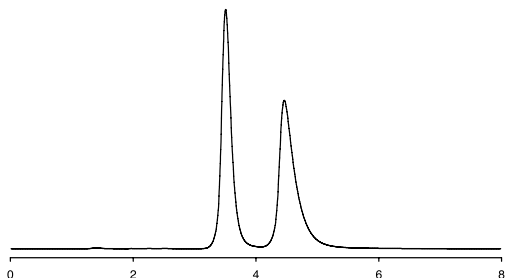
## Tryptophan

**Column:** ChiroSil,  
5  $\mu\text{m}$ , 15 cm x 4.6 mm  
**Mobile Phase:** (70/30)  
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:** 11.01 min  
**k'**<sub>1</sub>: 4.06  
**k'**<sub>2</sub>: 8.72  
 **$\alpha$** : 2.15  
**Catalog #:** 1-799001-300,  
1-799101-300



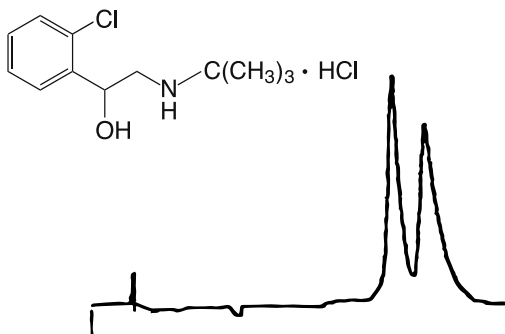
## DL-Tryptophane

**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°C  
**k':** 0.86  
 **$\alpha$ :** 1.59  
**Catalog #:** 1-788001-300



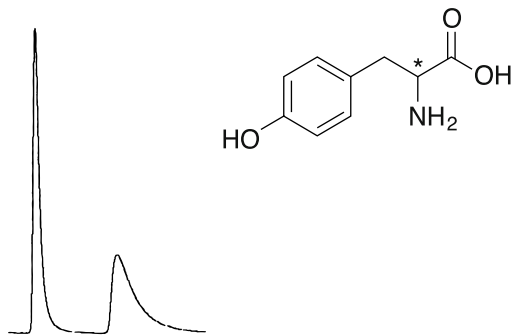
## Tulobuterol HCl

**Column:** (S)  $\alpha$ -Burke 2,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (91/9)  
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:** 15.0 min  
**k':** 6.38  
 **$\alpha$ :** 1.13  
**Reference:** 46  
**Catalog #:** 1-735037-300

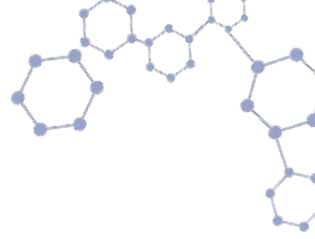


## Tyrosine

**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:** 9.09 min  
**k':** 2.95  
**k<sub>2</sub>'**: 7.02  
 **$\alpha$ :** 2.38  
**Catalog #:** 1-799001-300,  
1-799101-300

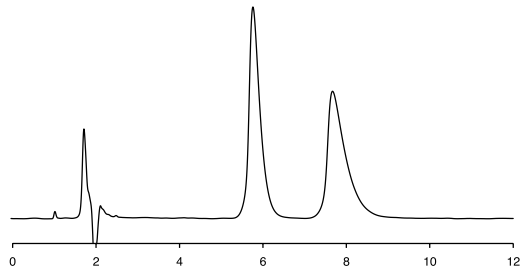






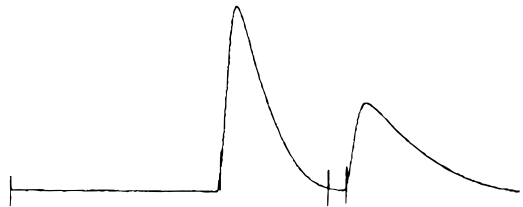
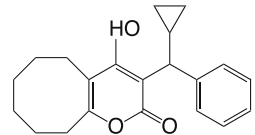
## DL-Tyrosine

**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



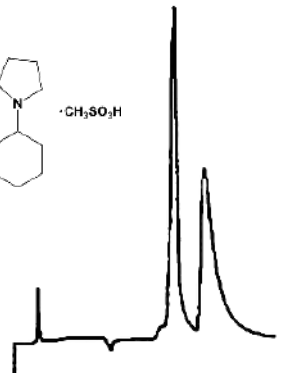
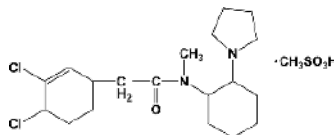
## U-100057

**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:** 37



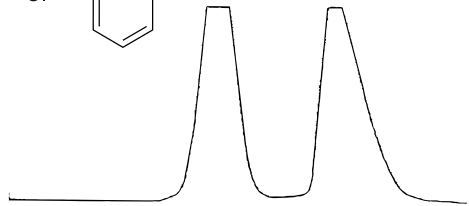
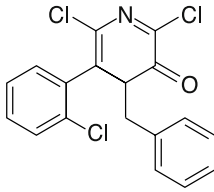
## trans-U-50488H

**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  
**Reference:** 46  
**Catalog #:** 1-731044-300



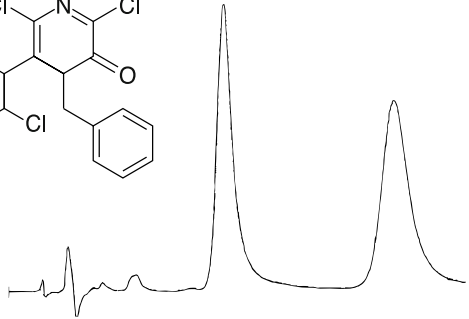
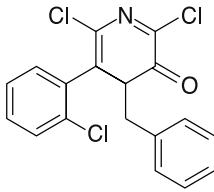
## U-94863

**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:** 37



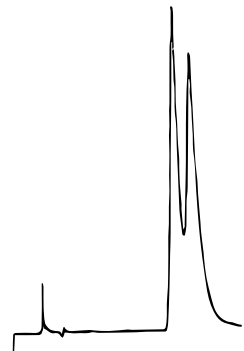
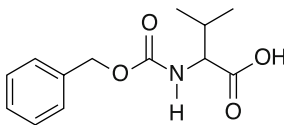
## U-94863

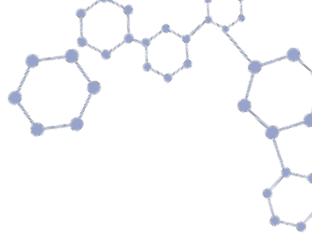
**Column:** Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (40/60)  
Hexane/IPA + 0.5% HOAc  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 15 min  
**k'**: 2.26  
 **$\alpha$** : 1.95  
**Reference:** 37  
**Catalog #:** 1-780101-300  
1-780201-300



## 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  
**Reference:** 18  
**Catalog #:** 1-780101-300,  
1-780201-300





## 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

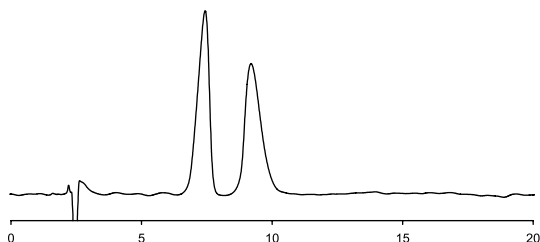
**Detection:** UV 210 nm

**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:** 100%

Ethanol + 0.1% TFA

**Flow Rate:** 1.0 mL/min

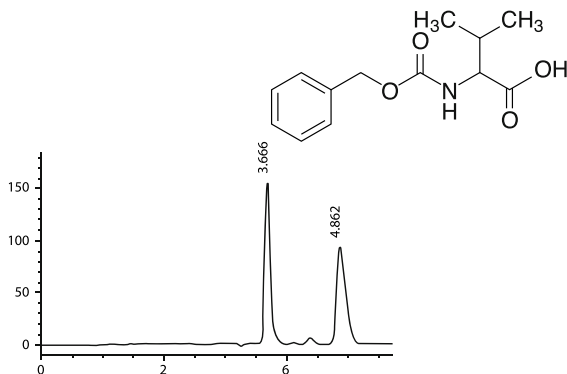
**Detection:** UV 254 nm

**k'**: 0.26

**$\alpha$** : 2.56

**CAS #:** 3588-63-4

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



## 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

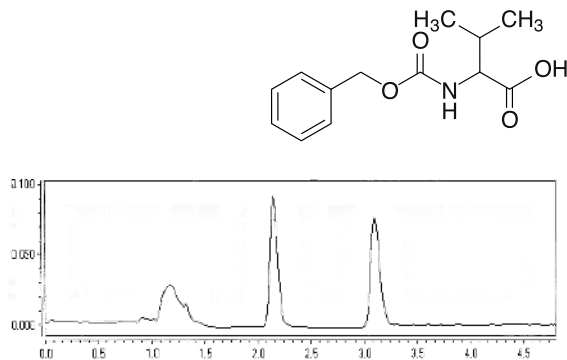
**Pressure:** 124 bar

**Detection:** UV 254 nm

**k'**: 1.87

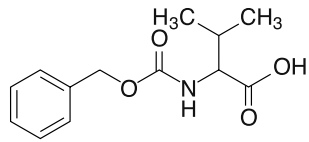
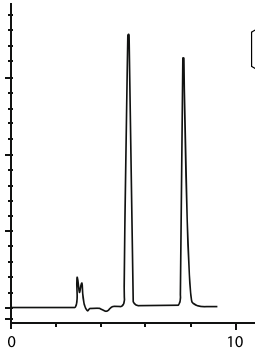
**$\alpha$** : 1.68

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



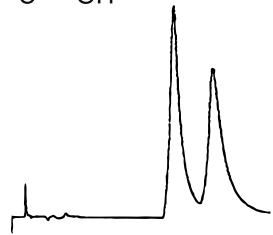
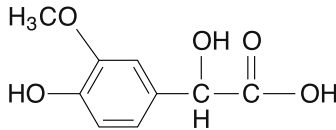
## N-CBZ-Valine

**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
Hexane/Ethanol  
+ 0.1% TFA  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**k':** 0.75  
 **$\alpha$ :** 2.09  
**Catalog #:** 1-784104-300



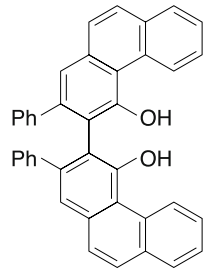
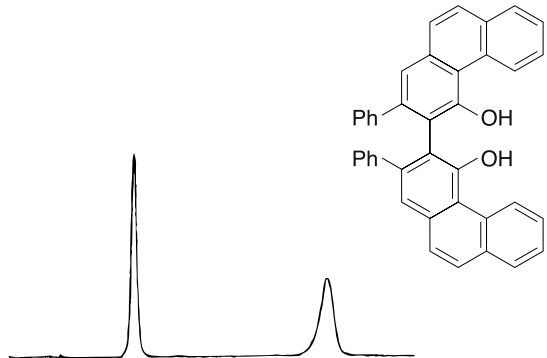
## Vanilmandelic Acid

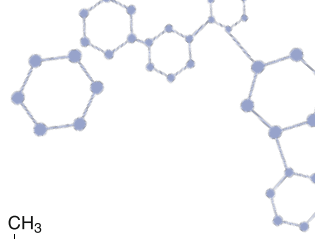
**Column:** (S,S) Whelk-O 1,  
10  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (85/15)  
Hexane/Ethanol  
+ 0.01 M Ammonium Acetate  
**Flow Rate:** 2.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 22.0 min  
**k':** 12.34  
 **$\alpha$ :** 1.27  
**Reference:** 46  
**Catalog #:** 1-786615-300



## Vapol

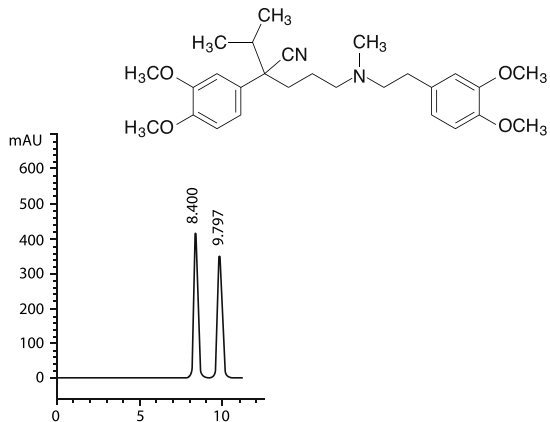
**Column:** (R,R) ULMO,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** 100%  
Methanol  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 13 min  
**k':** 1.74  
 **$\alpha$ :** 3.37  
**Reference:** 48  
**Catalog #:** 1-787200-300





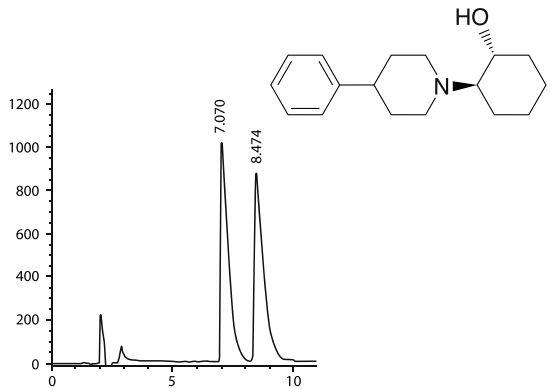
## Verapamil

**Column:** RegisPack,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (90/10)  
Hexane/IPA + 0.1% DEA  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 290 nm  
**k'**: 1.90  
 **$\alpha$ :** 1.25  
**CAS #:** 52-53-9  
**Catalog #:** 1-783104-300



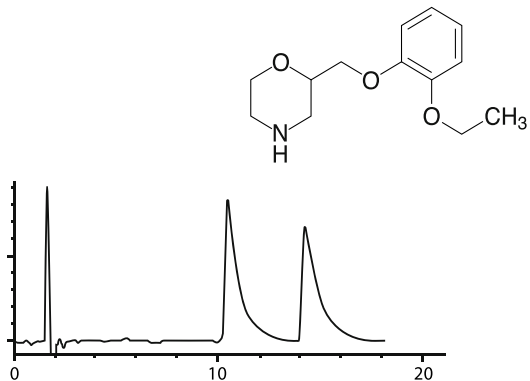
## Vesamicol

**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



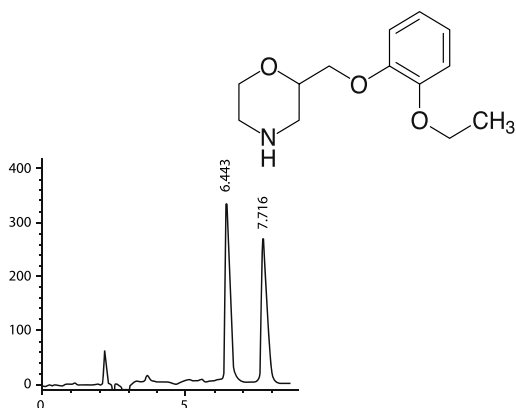
## Viloxazine

**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



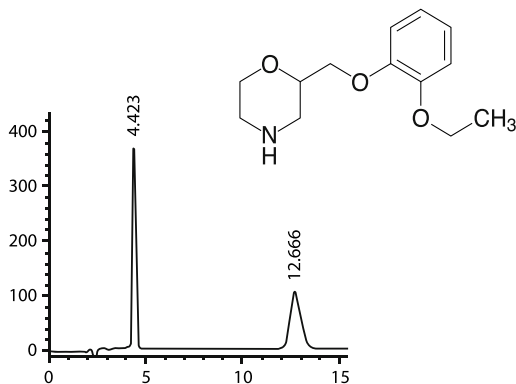
## Viloxazine

**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



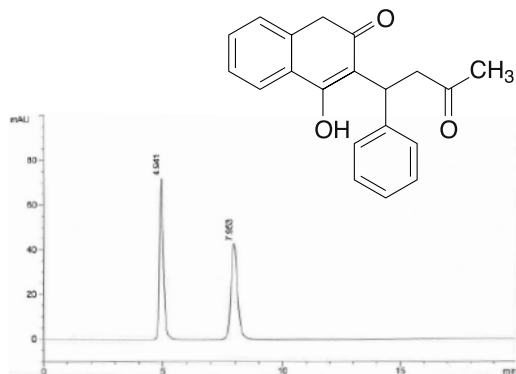
## Viloxazine

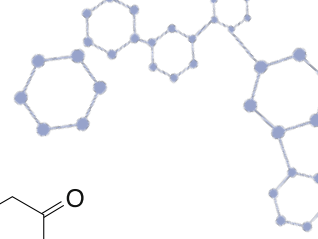
**Column:** RegisCell,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (50/50)  
Hexane/ethanol + 0.1% DEA  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 220 nm  
 **$k'$ :** 1.29  
 **$\alpha$ :** 4.31  
**CAS #:** 46817-91-8  
**Catalog #:** 1-784104-300



## Warfarin

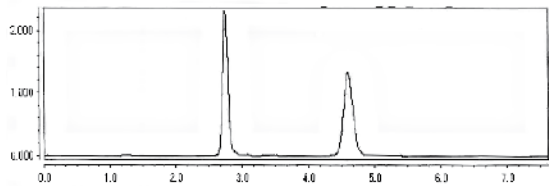
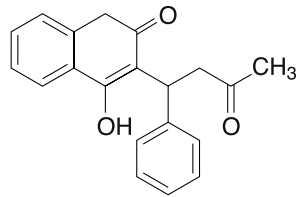
**Column:** (S,S) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (60/40)  
Hexane/Ethanol  
+ 0.1% Acetic Acid  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
 **$k'$ :** 1.56  
 **$\alpha$ :** 2.00  
**Catalog #:** 1-780101-300





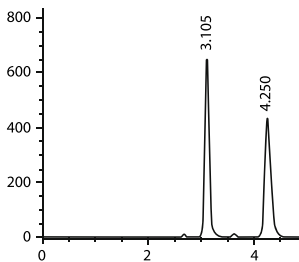
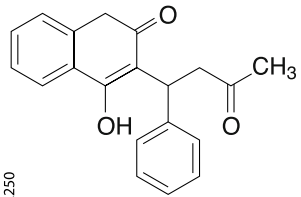
## Warfarin

**Column:** (S,S) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (65/35)  
 $\text{CO}_2$ /Ethanol + 0.5% AcAc  
**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



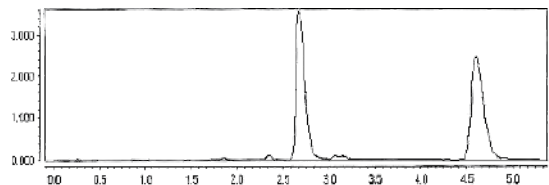
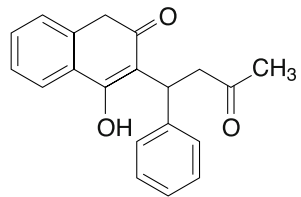
## Warfarin

**Column:** RegisPack,  
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 254 nm  
**k'**: 0.63  
 **$\alpha$** : 1.95  
**CAS #:** 81-81-2  
**Catalog #:** 1-783104-300



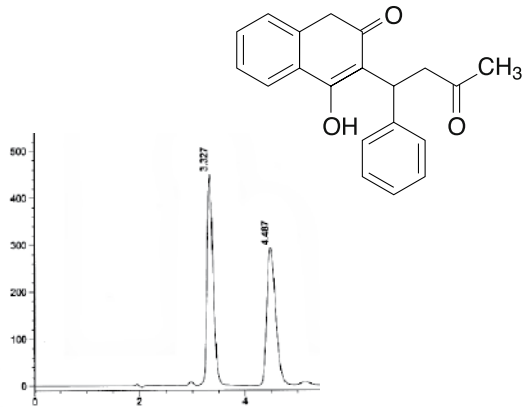
## Warfarin

**Column:** RegisPack,  
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°C  
**Pressure:** 125 bar  
**Detection:** UV 254 nm  
**k'**: 2.58  
 **$\alpha$** : 1.99  
**Catalog #:** 1-783104-300



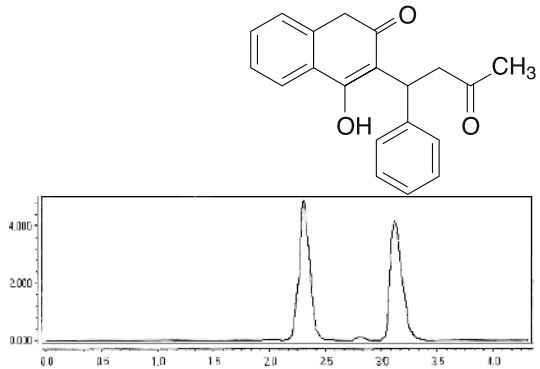
## Warfarin

**Column:** RegisCell,  
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  
**Pressure:** 125 bar  
**Detection:** UV 254 nm  
**k':** 0.75  
 **$\alpha$ :** 1.81  
**Catalog #:** 1-784104-300



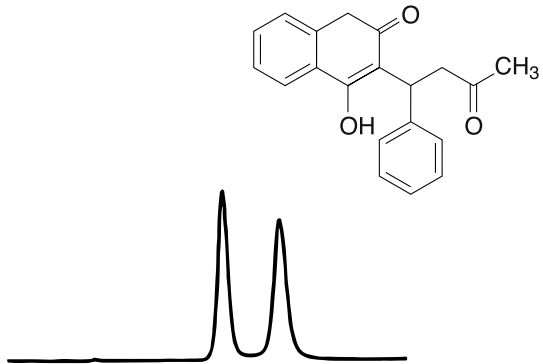
## Warfarin

**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°C  
**Pressure:** 125 bar  
**Detection:** UV 254 nm  
**k':** 2.08  
 **$\alpha$ :** 1.52  
**Catalog #:** 1-784104-300

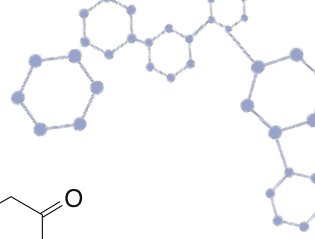


## Warfarin

**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:** 48  
**Catalog #:** 1-787100-300

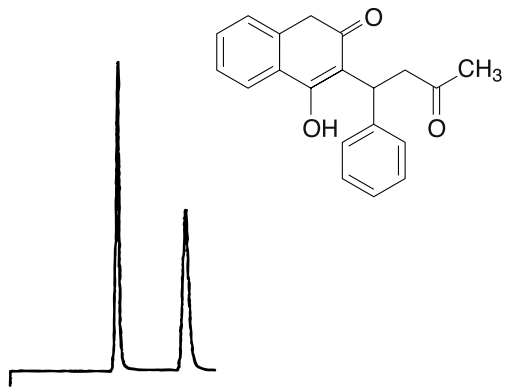






## Warfarin

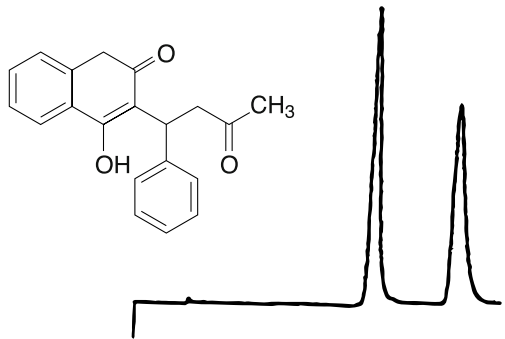
**Column:** (R,R) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (65/35)  
Hexane/IPA  
+ 0.1% Acetic Acid  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 11.5 min  
**k':** 1.54  
 **$\alpha$ :** 2.07  
**Reference:** 46  
**Catalog #:** 1-780201-300



## Warfarin

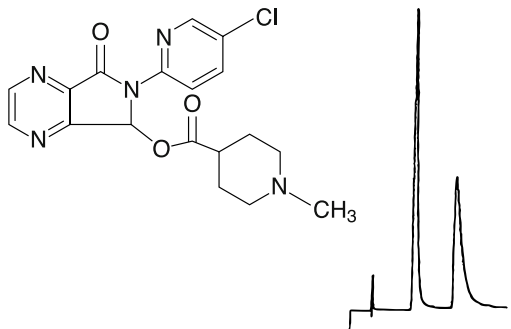
*Reversed Phase*

**Column:** (R,R) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (70/30)  
 $\text{CH}_3\text{OH}/\text{H}_2\text{O}$  + 0.1% Acetic Acid  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 15.0 min  
**k':** 3.54  
 **$\alpha$ :** 1.55  
**Reference:** 46  
**Catalog #:** 1-780201-300



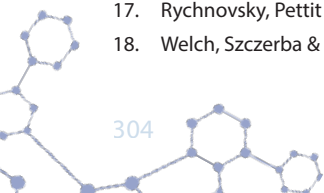
## Zopiclone

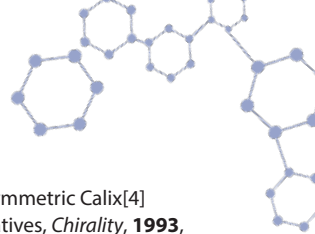
**Column:** (R,R) Whelk-O 1,  
5  $\mu\text{m}$ , 25 cm x 4.6 mm  
**Mobile Phase:** (95/5)  
 $\text{CH}_2\text{Cl}_2/\text{Ethanol}$   
+ 0.01 M Ammonium Acetate  
**Flow Rate:** 1.5 mL/min  
**Detection:** UV 254 nm  
**Run Time:** 8.5 min  
**k':** 1.94  
 **$\alpha$ :** 2.01  
**Reference:** 46  
**Catalog #:** 1-780201-300



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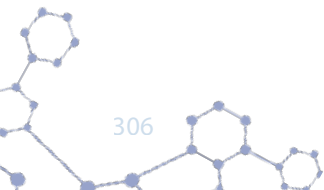


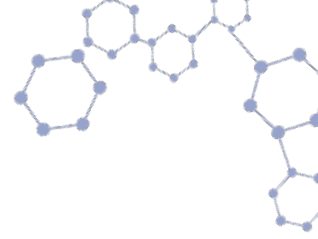


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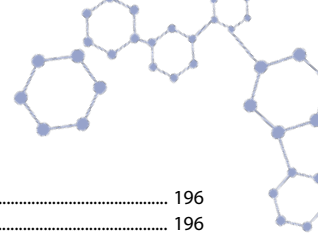




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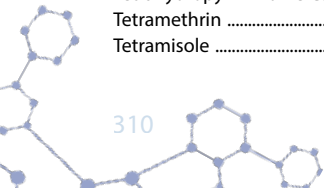
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