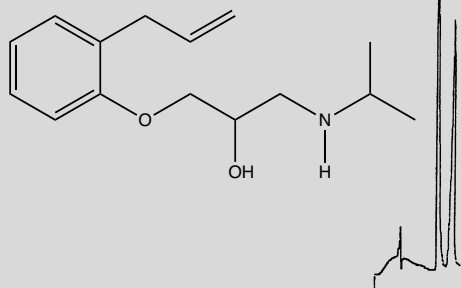


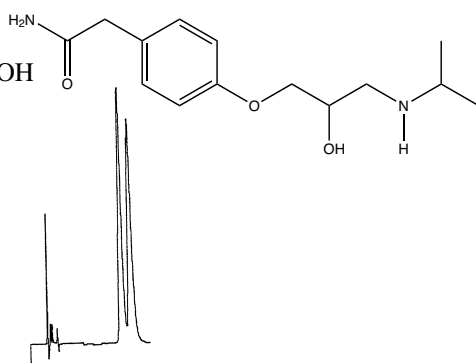
Alprenolol

Alprenolol
90:5:5 CH₂Cl₂/EtOH/MeOH
10 mM NH₄OAc
1 ml/min; 254 nm
run time = 10 min
4.6 mm x 25 cm
α-Burke 2
k'₁ = 1.44
α = 1.44
reference 33



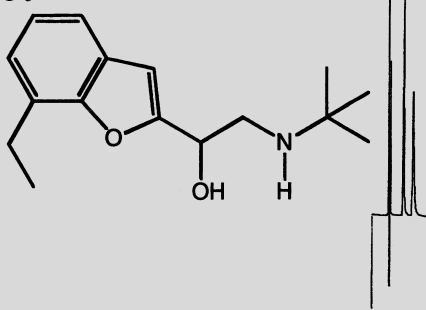
Atenolol

Atenolol
85:10:5
CH₂Cl₂/EtOH/MeOH
15 mM NH₄OAc
1 ml/min; 254 nm
run time = 16 min
4.6 mm x 25 cm
α-Burke 2
k'₁ = 4.41
α = 1.13
reference 33



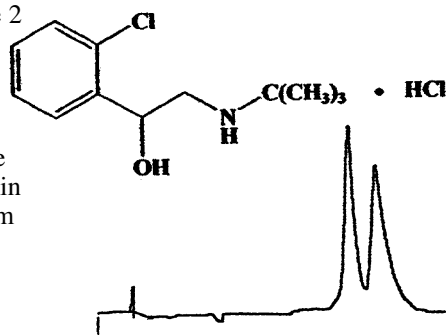
Bufuralol

Bufuralol
Column: (3R,4S)-Pirkle 1-J
25 cm x 4.6 mm
Mobile Phase: (90/10)
CH₂Cl₂/Ethanol
+ 0.02 M Ammonium
Acetate
Flow Rate: 1.0 mL/min
Detection: UV 254 nm
Run Time: 7.0 min
k'₁: 0.91
α: 2.01
reference 46



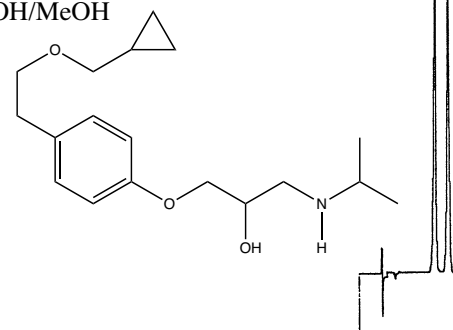
Tulobuterol HCl

Tulobuterol HCl
Column: (S)-α-Burke 2
25 cm x 4.6 mm
Mobile Phase: (91/9)
CH₂Cl₂/Ethanol
+ 0.01 M
Ammonium Acetate
Flow Rate: 1.5 mL/min
Detection: UV 254 nm
Run Time: 15.0 min
k'₁: 6.38
α: 1.13
reference 46



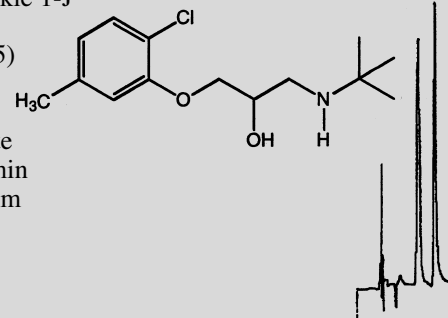
Betaxolol

Betaxolol
85:10:5 CH₂Cl₂/EtOH/MeOH
10 mM NH₄OAc
1 ml/min; 254 nm
run time = 11 min
4.6 mm x 25 cm
α-Burke 2
k'₁ = 2.36
α = 1.25
reference 33



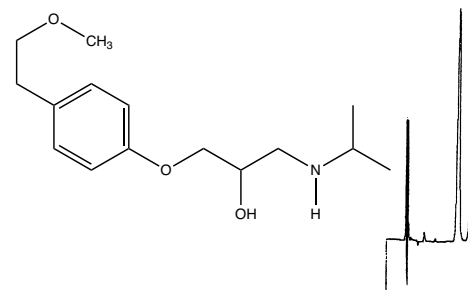
Bupranolol

Bupranolol
Column: (3R,4S)-Pirkle 1-J
25 cm x 4.6 mm
Mobile Phase: (85/15)
CH₂Cl₂/Ethanol
+ 0.015M
Ammonium Acetate
Flow Rate: 1.0 mL/min
Detection: UV 254 nm
Run Time: 8.5 min
k'₁: 1.44
α: 1.47
reference 46



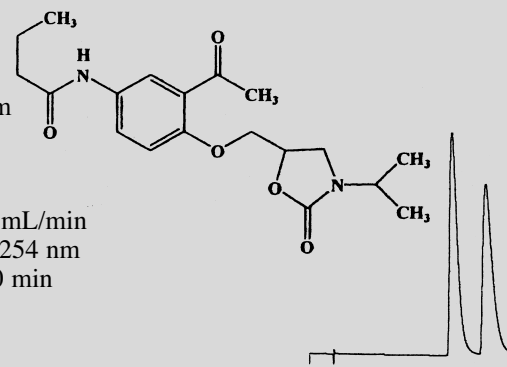
Metoprolol

metoprolol
85:10:5 CH₂Cl₂/EtOH/MeOH
10 mM NH₄OAc
1 ml/min; 254 nm
run time = 13 min
4.6 mm x 25 cm
α-Burke 2
k'₁ = 2.66
α = 1.28
reference 33



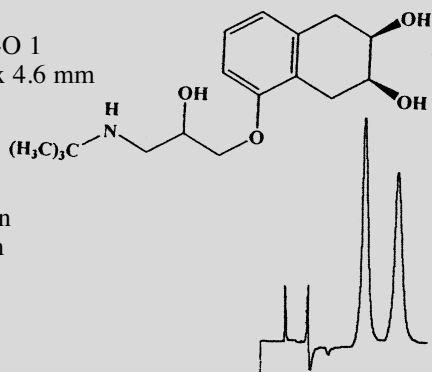
β-Blocker

β-Blocker
Column: (S,S)-
DACH-DNB
25 cm x 4.6 mm
Mobile Phase:
(90/10)
CH₂Cl₂/IPA
Flow Rate: 1.0 mL/min
Detection: UV 254 nm
Run Time: 18.0 min
k'₁: 4.52
α: 1.29
reference 59



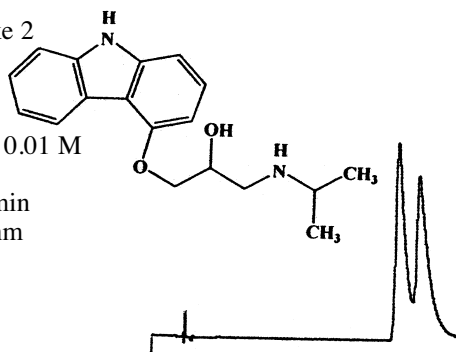
Nadolol

Nadolol
 Column = (S,S)-Whelk-O 1
 10/100 (FEC) 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
 $k'_1 = 3.05$
 $\alpha = 1.43$
 reference 46



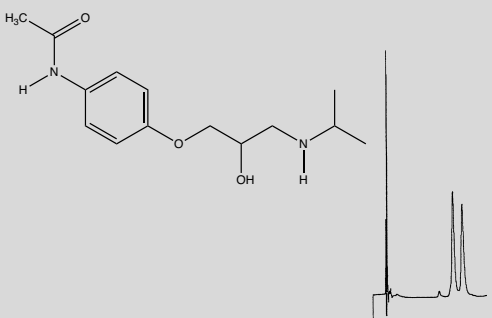
Carazolol

Carazolol
 Column = (R)- α -Burke 2
 25 cm x 4.6 mm
 Mobile Phase =
 (46/46/8) CH₂Cl₂/
 Methanol/Ethanol + 0.01 M
 Ammonium Acetate
 Flow Rate = 1.5 mL/min
 Detection = UV 254 nm
 Run Time = 15.0 min
 $k'_1 = 6.73$
 $\alpha = 1.10$
 reference 46



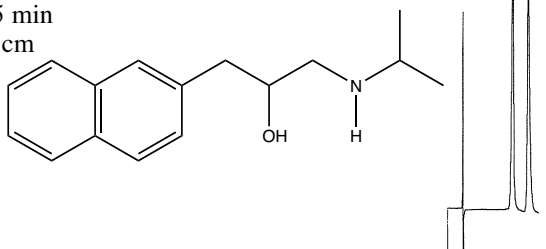
Practolol

Practolol
 85:10:5 CH₂Cl₂/
 EtOH/MeOH
 15 mM NH₄OAc
 1 ml/min; 254 nm
 run time = 19 min
 4.6 mm x 25 cm
 α -Burke 2
 $k'_1 = 4.78$
 $\alpha = 1.14$
 reference 33



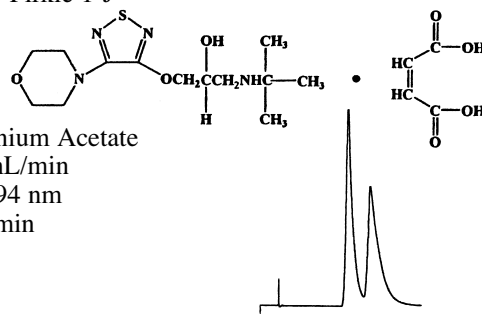
Pronethalol

Pronethalol
 90:10 CH₂Cl₂/EtOH
 15 mM NH₄OAc
 1 ml/min; 254 nm
 run time = 15 min
 4.6 mm x 25 cm
 α -Burke 2
 $k'_1 = 3.26$
 $\alpha = 1.31$
 reference 33



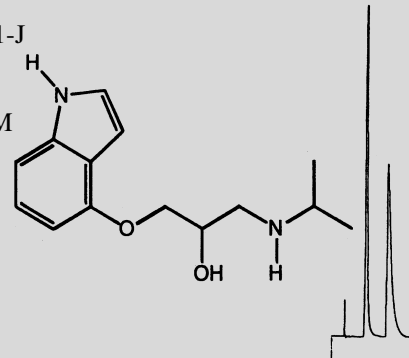
Timolol Maleate

Timolol Maleate
 Column = (3R,4S)-Pirkle 1-J
 25 cm x 4.6 mm
 Mobile Phase =
 (94/3/3) CH₂Cl₂/
 Ethanol/IPA
 + 0.01M Ammonium Acetate
 Flow Rate = 1.0 mL/min
 Detection = UV 294 nm
 Run Time = 16.0 min
 $k'_1 = 3.72$
 $\alpha = 1.33$
 reference 46



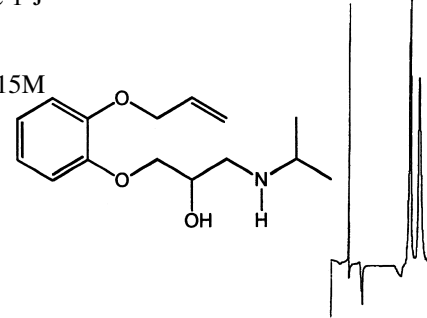
Pindolol

Pindolol
 Column: (3R,4S)-Pirkle 1-J
 25 cm x 4.6 mm
 Mobile Phase: (80/20)
 CH₂Cl₂/Ethanol + 0.04M
 Ammonium Acetate
 Flow Rate: 1.0 mL/min
 Detection: UV 254 nm
 Run Time: 11.0 min
 $k'_1 = 1.56$
 $\alpha = 2.06$
 reference 46



Oxprenolol

Oxprenolol
 Column: (3R,4S)-Pirkle 1-J
 25 cm x 4.6 mm
 Mobile Phase: (90/10)
 CH₂Cl₂/Ethanol + 0.015M
 Ammonium Acetate
 Flow Rate: 1.0 mL/min
 Detection: UV 254 nm
 Run Time: 13.5 min
 $k'_1 = 3.55$
 $\alpha = 1.15$
 reference 46



Propranolol

Propranolol
 Column: (3R,4S)-Pirkle 1-J
 25 cm x 4.6 mm
 Mobile Phase: (80/20)
 CH₂Cl₂/Ethanol + 0.04M
 Ammonium Acetate
 Flow Rate: 1.0 mL/min
 Detection: UV 254 nm
 Run Time: 6.5 min
 $k'_1 = 0.80$
 $\alpha = 1.80$
 reference 46

