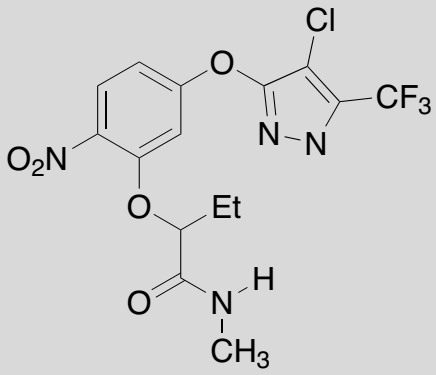
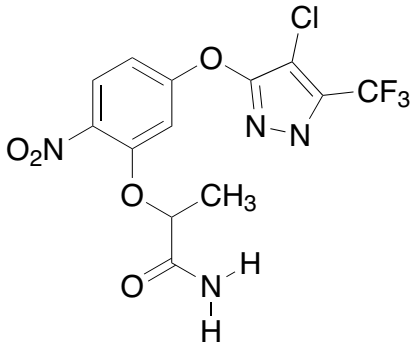
PPO Inhibitor

PPO inhibitor
10% IPA in hexane
2 ml/min; 254 nm
4.6 mm x 25 cm
Whelk-O 1
$k'_1 = 5.2$
$\alpha = 1.32$
reference 23



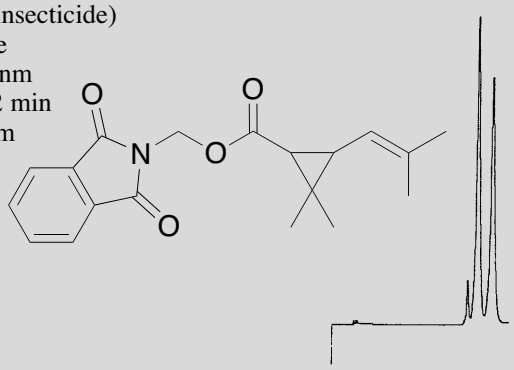
PPO Inhibitor

PPO inhibitor
10% IPA in hexane
2 ml/min; 254 nm
4.6 mm x 25 cm
Whelk-O 1
$k'_1 = 8.0$
$\alpha = 1.22$
reference 23



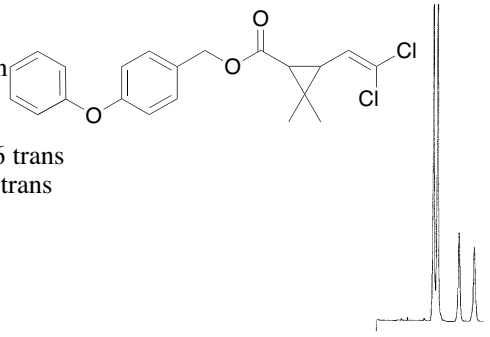
Tetramethrin

Tetramethrin (insecticide)
2% IPA/hexane
1 ml/min; 254 nm
Run Time = 22 min
4.6 mm x 25 cm
Whelk-O 1
$k'_1 = 11.77$
$\alpha = 1.12$
reference 43



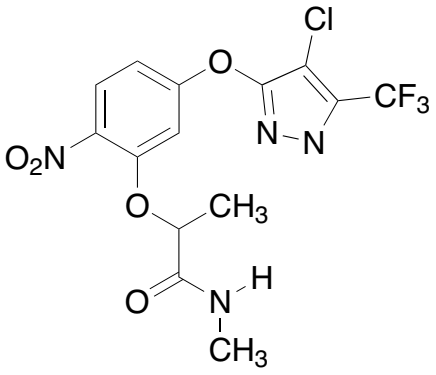
Permethrin

Permethrin (insecticide)
0.2% IPA/hexane
1 ml/min; 254 nm
Run Time = 16 min
4.6 mm x 25 cm
Whelk-O 1
$k'_1 = 4.83$ cis; 7.46 trans
$\alpha = 1.11$ cis; 1.24 trans
reference 43



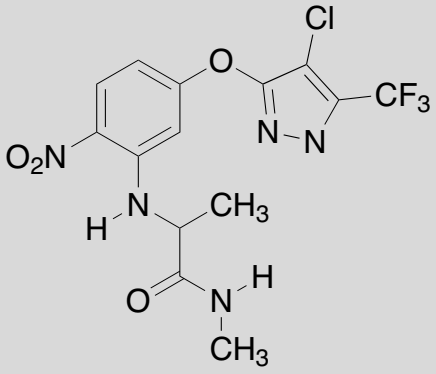
PPO Inhibitor

PPO inhibitor
10% IPA in hexane
2 ml/min; 254 nm
4.6 mm x 25 cm
Whelk-O 1
$k'_1 = 7.5$
$\alpha = 1.29$
reference 23



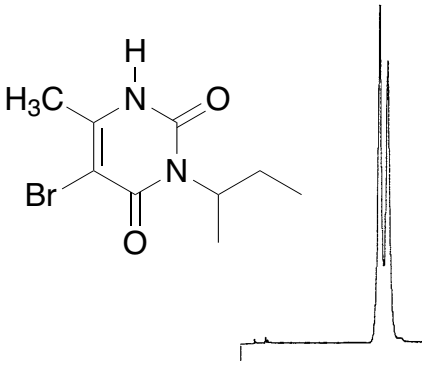
PPO Inhibitor

PPO inhibitor
10% IPA in hexane
2 ml/min; 254 nm
4.6 mm x 25 cm
Whelk-O 1
$k'_1 = 15.1$
$\alpha = 1.04$
reference 23



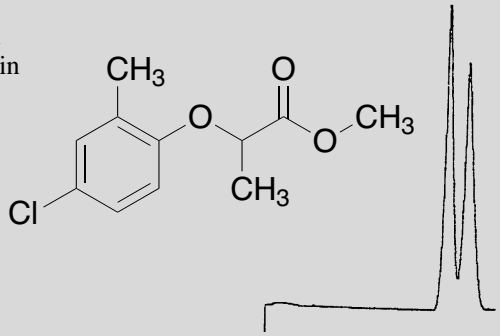
Bromacil

Bromacil (insecticide)
2% IPA/hexane
1 ml/min; 254 nm
Run Time = 38 min
4.6 mm x 25 cm
Whelk-O 1
$k'_1 = 21.43$
$\alpha = 1.07$
reference 43



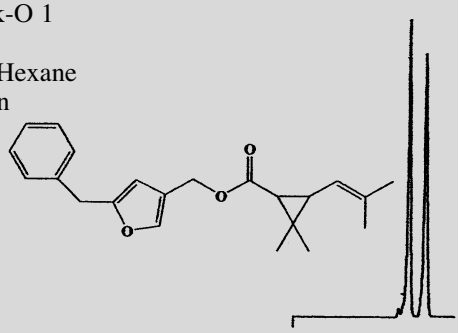
Mecoprop Methyl

Mecoprop Methyl (insecticide)
hexane
1 ml/min; 254 nm
Run Time = 15 min
4.6 mm x 25 cm
Whelk-O 1
$k'_1 = 6.92$
$\alpha = 1.15$
reference 43



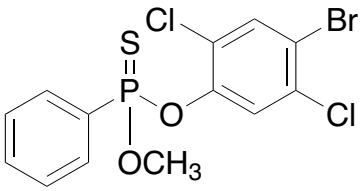
Resmethrin

Resmethrin
Column: (R,R)-Whelk-O 1
25 cm x 4.6 mm
Mobile Phase: 100% Hexane
Flow Rate:1.0 mL/min
Dection: UV 254 nm
Run Time: 15.0 min
k'_1 = 6.30
α = 1.19
reference 46



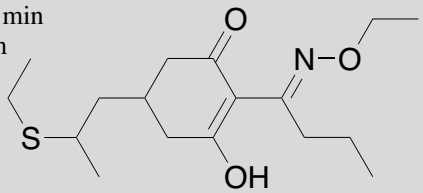
Leptophos, Phosvel

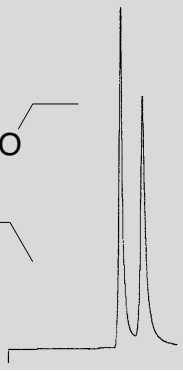
Leptophos, Phosvel
(insecticide)
hexane
1 ml/min; 254 nm
Run Time = 10 min
4.6 mm x 25 cm
Whelk-O 1
k'_1 = 4.11
α = 1.18
reference 43



Sethoxydim

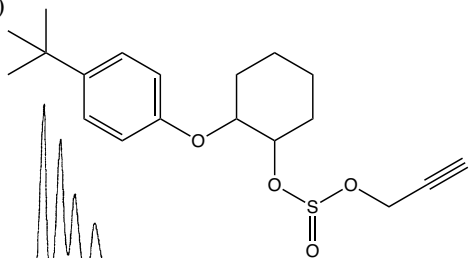
Sethoxydim (herbicide)
2% IPA/hexane
1 ml/min; 254 nm
Run Time = 15 min
4.6 mm x 25 cm
Whelk-O 1
k'_1 = 6.77
α = 1.26
reference 43

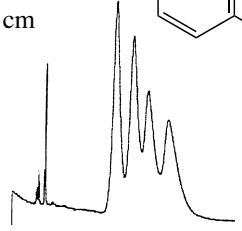




Omite

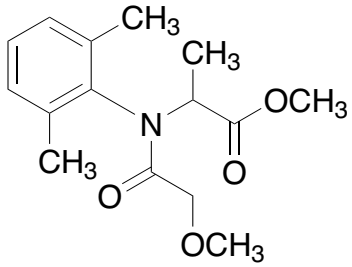
Omite (acaricide)
(mixture of isomers)
hexane
1 ml/min; 254 nm
Run Time = 25 min
4.6 mm x 24 cm
Whelk-O 1
reference 43

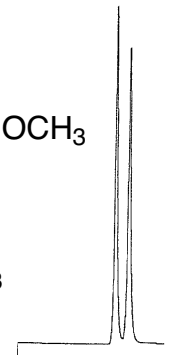




Metalaxyl

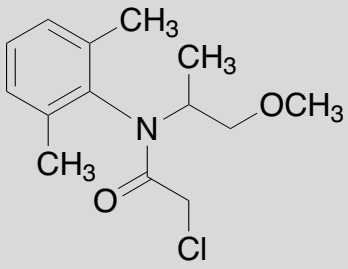
Metalaxyl (herbicide)
70:30 hexane/IPA
1 ml/min; 254 nm
Run Time = 13 min
4.6 mm x 25 cm
Whelk-O 1
k'_1 = 6.54
α = 1.13
reference 43

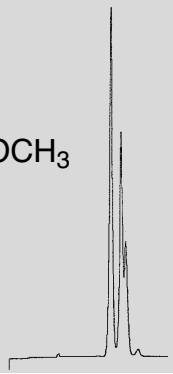




Metolachlor

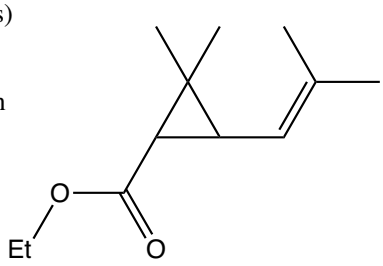
Metolachlor (herbicide)
2% IPA/hexane
1 ml/min; 254 nm
Run Time = 25 min
4.6 mm x 25 cm
Whelk-O 1
reference 43

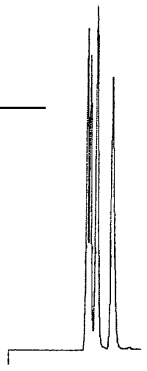




Chrysanthemic Acid-Ethyl Ester

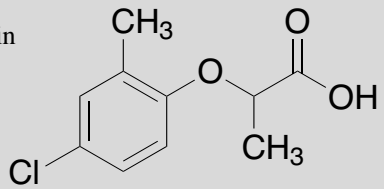
Chrysanthemic acid ethyl ester
(mixture of isomers)
hexane
1 ml/min; 254 nm
Run Time = 10 min
4.6 mm x 24 cm
Whelk-O 1
reference 43

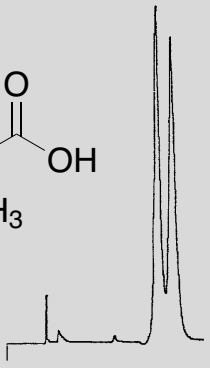




Mecoprop

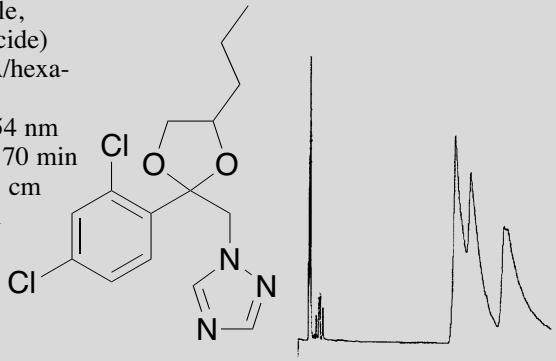
Mecoprop (herbicide)
99:1:0.1 HEX/IPA/HOAc
1 ml/min; 254 nm
Run Time = 15 min
4.6 mm x 25 cm
Whelk-O 1
k'_1 = 6.54
α = 1.13
reference 43





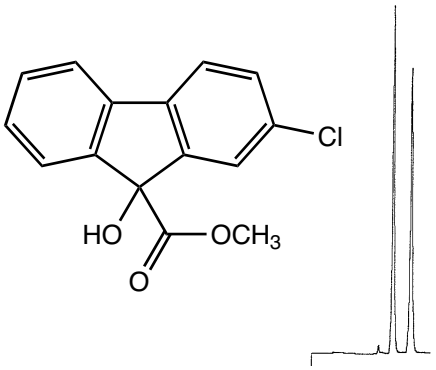
Propiconazole, Tilt

Propiconazole,
Tilt (fungicide)
99:1:0.1 IPA/hexane/HOAc
1 ml/min; 254 nm
Run Time = 70 min
4.6 mm x 25 cm
Whelk-O 1
reference 43



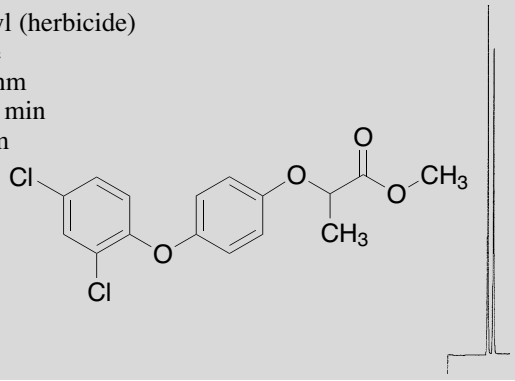
Chlorflurecol Methlyl

Chlorflurecol Methyl
(herbicide)
2% IPA/hexane
1ml/min; 254 nm
Run Time 16 min
4.6 mm x 25 cm
Whelk-O 1
$k'_1 = 3.96$
$\alpha = 1.28$
reference 43



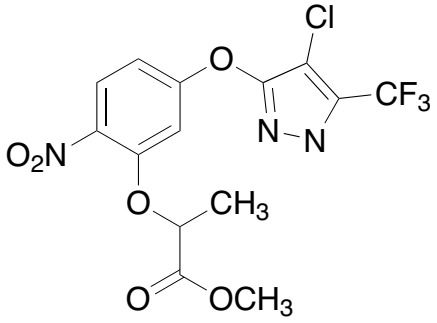
Diclofop Methyl

Diclofop Methyl (herbicide)
1% IPA/hexane
1 ml/min; 254 nm
Run Time = 30 min
4.6 mm x 25 cm
Whelk-O 1
$k'_1 = 4.29$
$\alpha = 1.21$
reference 43



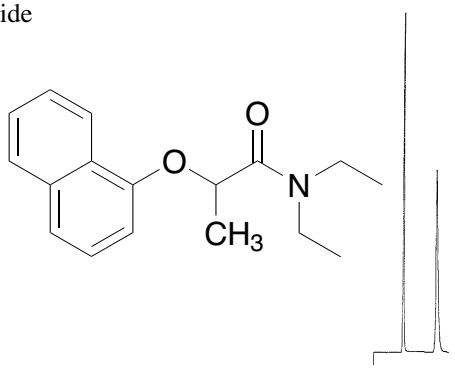
PPO Inhibitor

PPO inhibitor
10% IPA in hexane
2 ml/min; 254 nm
4.6 mm x 25 cm
Whelk-O 1
$k'_1 = 3.9$
$\alpha = 1.11$
reference 23



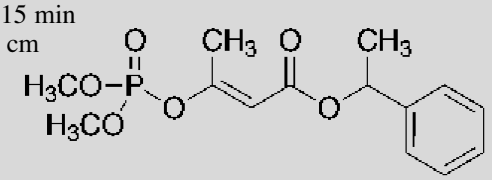
Devrinol, Napropamide

Devrinol, Napropamide
(herbicide)
1:1 IPA/hexane
1 ml/min; 254 nm
Run Time = 15 min
4.6 mm x 25 cm
Whelk-O 1
$k'_1 = 3.17$
$\alpha = 3.00$
reference 43



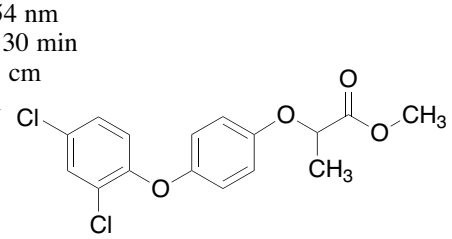
Crotoxyphos

Crotoxyphos
70:30 hexane/IPA
1 ml/min; 254 nm
Run Time = 15 min
4.6 mm x 25 cm
Whelk-O 1
$k'_1 = 4.37$
$\alpha = 1.93$
reference 43



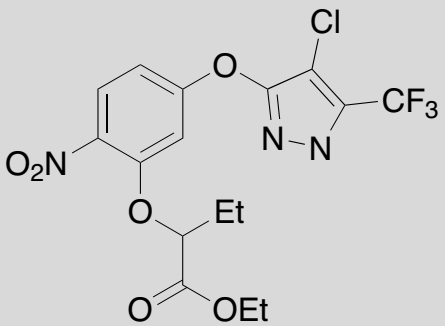
Diclofop Methyl

Diclofop Methyl (herbicide)
hexane
1 ml/min; 254 nm
Run Time = 30 min
4.6 mm x 25 cm
Whelk-O 1
$k'_1 = 14.19$
$\alpha = 1.30$
reference 43



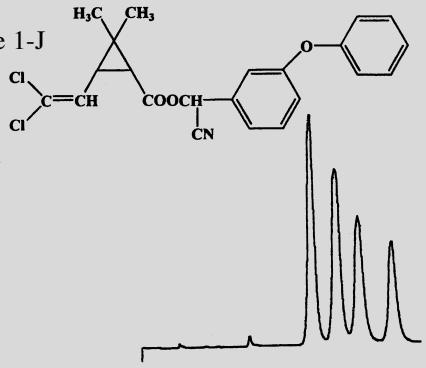
PPO Inhibitor

PPO inhibitor
10% IPA in hexane
2 ml/min; 254 nm
4.6 mm x 25 cm
Whelk-O 1
$k'_1 = 2.4$
$\alpha = 1.12$
reference 23



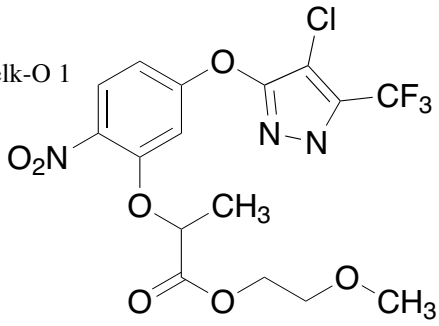
cis:trans Cypermethrin

cis:trans Cypermethrin
Column = (3R,4S)-Pirkle 1-J
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'_1 (trans) = 4.59
α (trans) = 1.19
k'_1 (cis) = 6.19
α (cis) = 1.18
reference 46



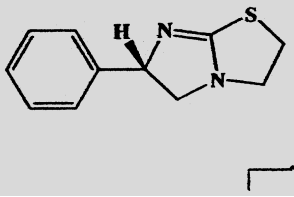
PPO Inhibitor

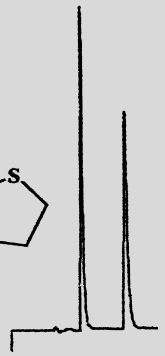
PPO inhibitor
10% IPA in hexane
2 ml/min; 254 nm
4.6 mm x 25 cm Whelk-O 1
k'_1 = 6.1
α = 1.08
reference 23



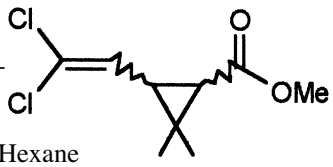
Tetramisole

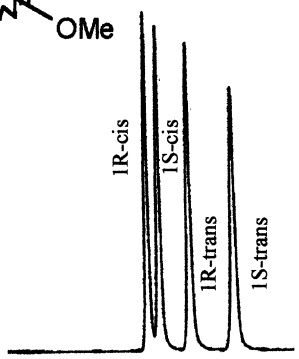
Ttetramisole
Column = (R,R)-Whelk-O 1
25 cm x 4.6 mm
Mobile Phase = (40/40/20)
CH_2Cl_2/Hexane/Ethanol
+ 0.01 M Ammonium Acetate
Flow Rate = 1.0 mL/min
Detection = UV 254 nm
Run Time = 7.0 min
k'_1 = 0.52
α = 2.84
reference 46





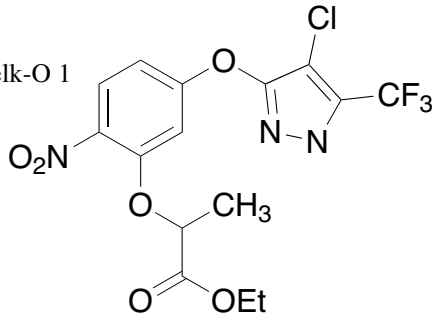
Column = (R,R)-
Whelk-O 1
25 cm x 4.6 mm
Mobile Phase = Hexane
Flow Rate = 0.5 mL/min
Detection = UV 254 nm
Run Time = 15.5 min
reference 54





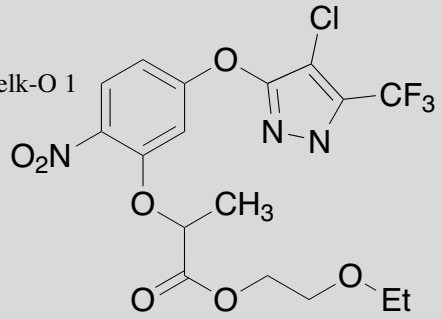
PPO Inhibitor

PPO inhibitor
10% IPA in hexane
2 ml/min; 254 nm
4.6 mm x 25 cm Whelk-O 1
k'_1 = 3.2
α = 1.08
reference 23



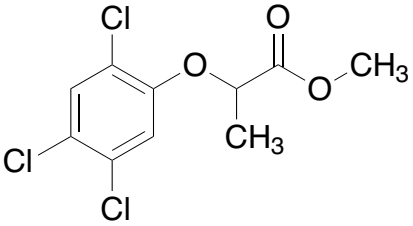
PPO Inhibitor

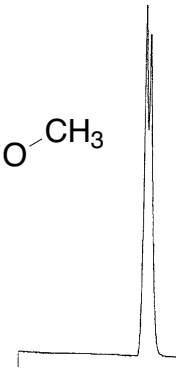
PPO inhibitor
10% IPA in hexane
2 ml/min; 254 nm
4.6 mm x 25 cm Whelk-O 1
k'_1 = 4.2
α = 1.10
reference 23



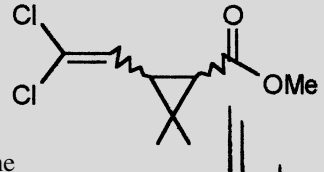
Silvex Methyl

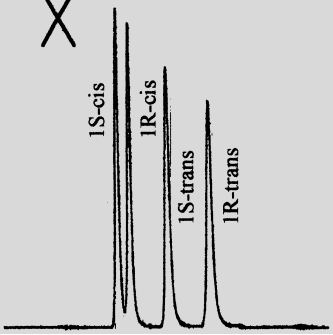
Silvex Methyl
(herbicide)
hexane
1 ml/min; 254 nm
run time = 15 min
4.6 mm x 25 cm
Whelk-O 1
k'_1 = 6.47
α = 1.05
reference 43





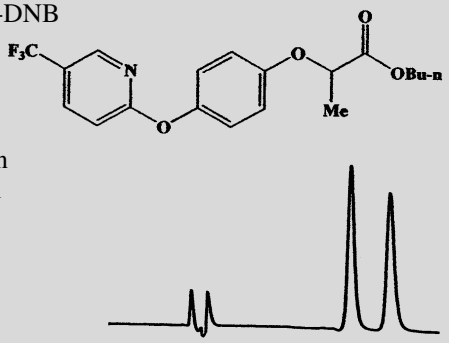
Column = (S,S)-
Whelk-O 1
25 cm x 4.6 mm
Mobile Phase = Hexane
Flow Rate = 0.5 mL/min
Detection = UV 254 nm
Run Time = 18.5 min
reference 54





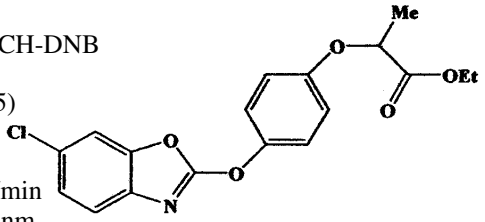
Fluazifop-butyl

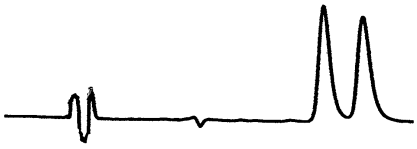
Fluazifop-butyl
Column: (S,S)-DACH-DNB
25 cm x 4.6 mm
Mobile Phase: (95/5)
Hexane/IPA
Temperature: 20° C
Flow Rate: 1.0 mL/min
Detection: UV 254 nm
Run Time: 11.5 min
k'_1 = 2.65
α = 1.22
reference: 59



Fenoxaprop-ethyl

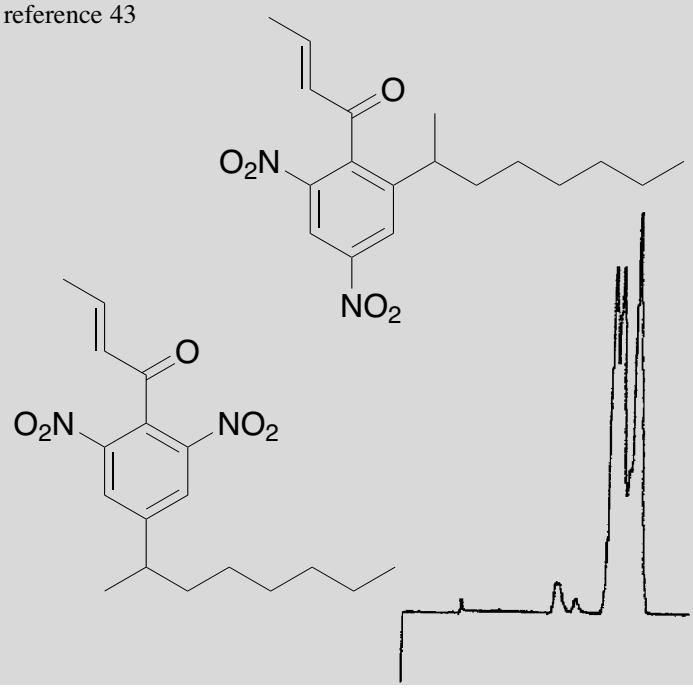
Fenoxaprop-ethyl
Column: (R,R)-DACH-DNB
25 cm x 4.6 mm
Mobile Phase: (95/5)
Hexane/IPA
Temperature: 20° C
Flow Rate: 1.0 mL/min
Detection: UV 254 nm
Run Time: 18.0 min
k'_1 = 4.70
α = 1.15
reference: 59





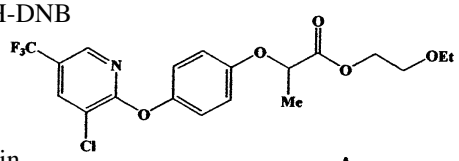
Dinocap

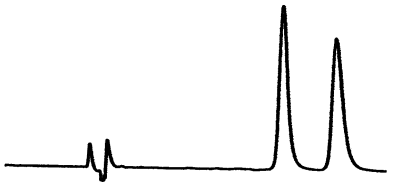
Dinocap (fungicide) - mixture of isomers
hexane
1 ml/min; 254 nm
Run Time = 15 min
4.6 mm x 25 cm Whelk-O 1
reference 43



Haloxyfop-ethoxyethyl

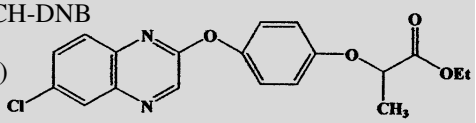
Haloxyfop-ethoxyethyl
Column: (S,S)-DACH-DNB
25 cm x 4.6 mm
Mobile Phase: (95/5)
Hexane/IPA
Temperature: 20° C
Flow Rate: 1.0 mL/min
Detection: UV 254 nm
Run Time: 13.0 min
k'_1 = 3.13
α = 1.25
reference: 59

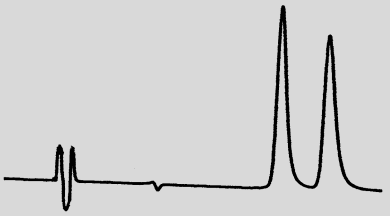




Quizalofop-ethyl

Quizalofop-ethyl
Column: (R,R)-DACH-DNB
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'_1 = 5.22
α = 1.21
reference: 59





Fenvalerate

Fenvalerate
Column: (S,S)-Whelk-O 1
10/100 (FEC) 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