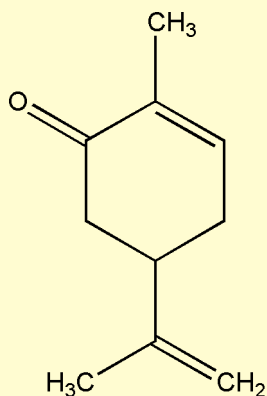


Cogent UDC™ Cholesterol HPLC Column

Carvone



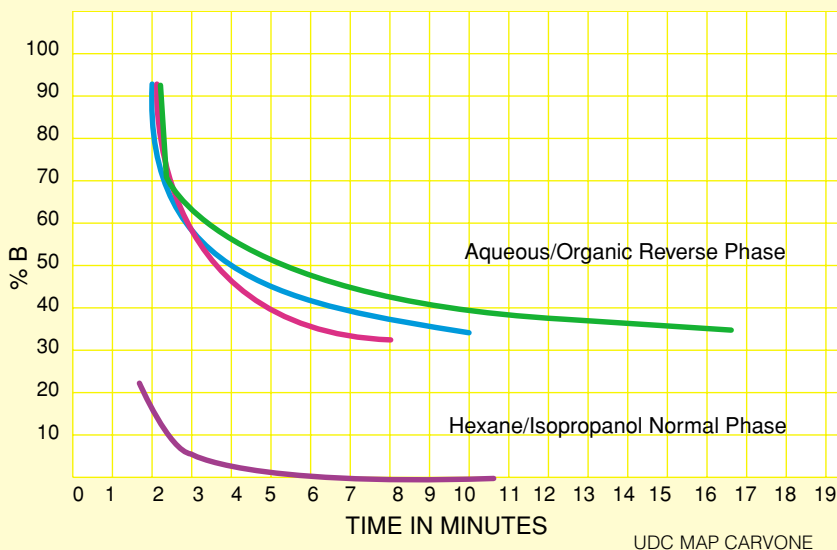
Octanol-Water Partition Coefficient 3.07 (log P)

Flow Rate: 1ml/min
Wavelength: 255 nm

Test Compound
Carvone

Mobile Phase

- 1 — % Aq/THF
- 2 — % Aq/ACN
- 3 — % Aq/MeOH
- 4 — % Hexane/Isopropanol



Method Conditions

Column: Cogent UDC™ Cholesterol
Catalog No.: 69069-15R
Dimensions: 150mm x 4.6mm ID
Mobile Phase: — Water/THF
 — Water/Acetonitrile
 — Water/Methanol
 — Hexane/Isopropanol
Flow Rate: 1mL/minute
Sample: Carvone. Synonym: 2-cyclohexen-1-one, 2-methyl-5-(1-methylethenyl)methyl-5-(1-methylethenyl)
Injection Volume: 10µL
Detection: 255nm

Discussion

The retention characteristics of Carvone on this UDC-Cholesterol™ Column when working in aqueous reverse phase mode is typical of a C18 or C8 column; with THF being a stronger solvent than Acetonitrile which is stronger than Methanol and the retention times changing respectively (*shown*).

This column can also be used in either Aqueous-normal phase or Organic-normal phase (shown below). Other columns such as Cyano or Amino are not optimal choices if you want to switch between Aqueous-reverse phase then to Organic normal phase. UDC-Cholesterol™ is unique in that only relatively minimal re-equilibration effort is required when switching between Aqueous-normal phase to Aqueous-reverse phase to Organic-normal phase.