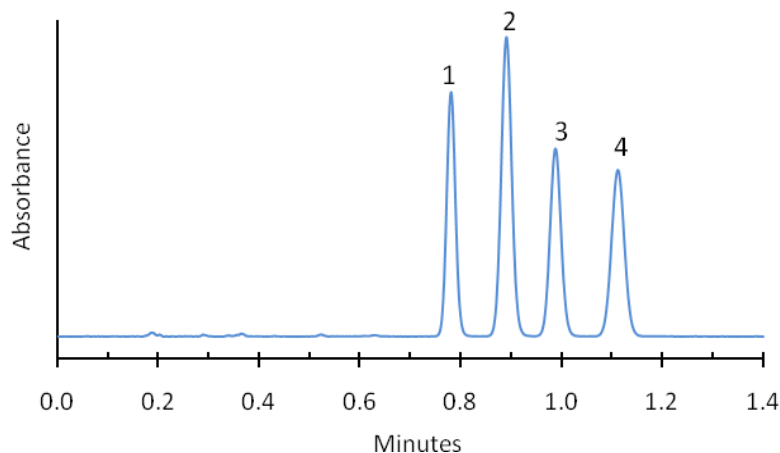


Application Note: 38-P

Isocratic Separation of Sulfonyl Urea Drugs on HALO Phenyl-Hexyl Phase



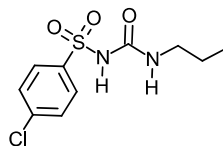
PEAK IDENTITIES:

1. Chlorpropamide
2. Glipizide
3. Acetohexamide
4. Tolazamide

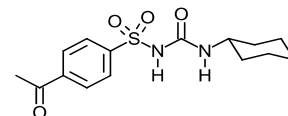
TEST CONDITIONS:

Column: 4.6 x 50 mm, HALO Phenyl-Hexyl
Part Number: 92814-406
Mobile Phase: 62/38--A/B
A= 0.02 M Phosphate buffer, pH=3.0
B= Acetonitrile
Flow Rate: 2.5 mL/min.
Pressure: 255 Bar
Temperature: 30 °C
Detection: UV 254 nm, VWD
Injection Volume: 1.0 µL
Sample Solvent: Acetonitrile
Response Time: 0.02 sec.
Flow Cell: 2.5 µL semi-micro
LC System: Shimadzu Prominence UFLC XR
Extra column volume: ~14 µL

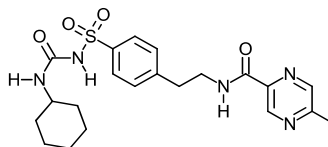
STRUCTURES:



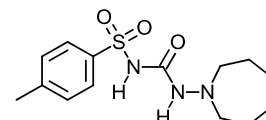
Chlorpropamide



Acetohexamide



Glipizide



Tolazamide

The sulfonyl urea drugs are used in the treatment of diabetes. They can be rapidly analyzed in less than 1.2 minutes using short, efficient HALO Fused Core Phenyl-Hexyl columns.