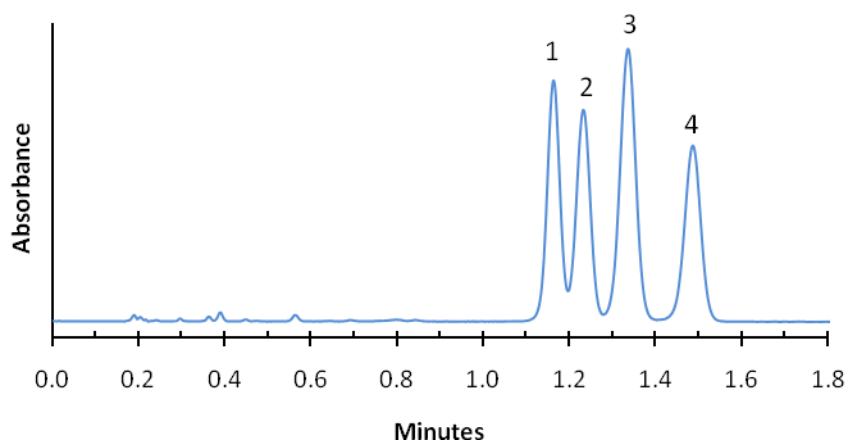


Application Note: 40-P

Isocratic Separation of Sulfonyl Urea Drugs on HALO RP-Amide Phase



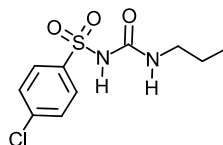
PEAK IDENTITIES:

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

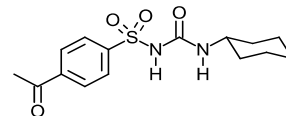
TEST CONDITIONS:

Column: 4.6 x 50 mm, HALO RP-Amide
Part Number: 92814-407
Mobile Phase: 65/35--A/B
A= 0.02 M Phosphate buffer, pH=3.0
B= Acetonitrile
Flow Rate: 2.5 mL/min.
Pressure: 250 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

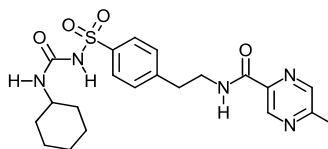
STRUCTURES:



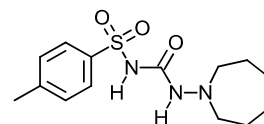
Chlorpropamide



Acetohexamide



Glipizide



Tolazamide

The sulfonyl urea drugs are used in the treatment of diabetes. They can be rapidly analyzed in about 1.6 minutes using short, efficient HALO Fused Core RP-Amide columns. The RP-Amide phase offers an alternate selectivity with respect to other phases.