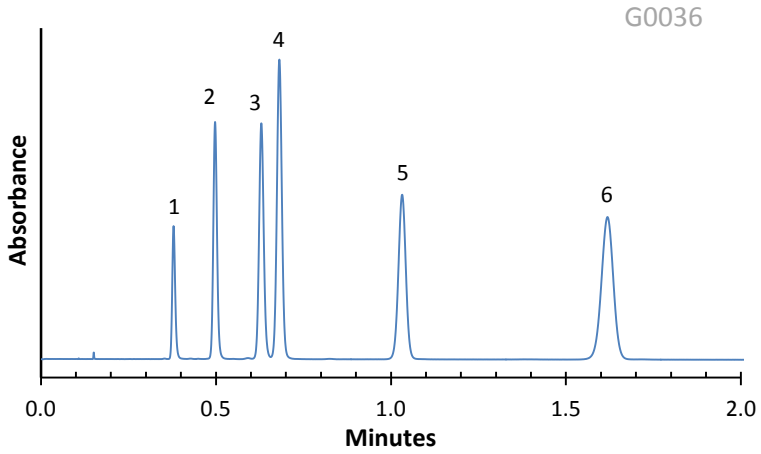
Application Note: 54-P

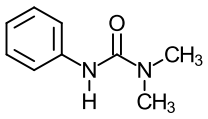
Isocratic Separation of Phenyl Ureas on HALO ES-CN

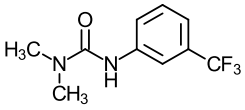


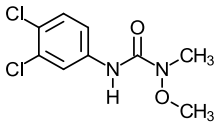
PEAK IDENTITIES:
1. Fenuron
2. Monuron
3. Fluomethuron
4. Diuron
5. Linuron
6. Neburon

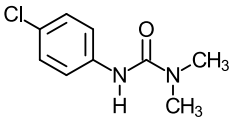
TEST CONDITIONS:
Column: 4.6 x 50 mm, HALO ES-CN
Part Number: 92814-404
Mobile Phase: 50/50-A/B
A=0.02 M Phosphate buffer, adj. to pH=2.5
B=Acetonitrile
Flow Rate: 2.0 mL/min.
Pressure: 200 Bar
Temperature: 20 °C
Detection: UV 245 nm, VWD
Injection Volume: 0.5 µL
Sample Solvent: Acetonitrile/water
Response Time: 0.02 sec.
Flow Cell: 2.5 µL semi-micro
LC System: Shimadzu Prominence UFLC XR
Extra column volume: ~14 µL

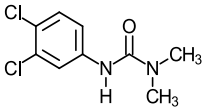
STRUCTURES:

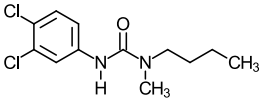

Fenuron


Fluomethuron


Linuron


Monuron


Diuron


Neburon

This separation is an example of a rapid analysis of phenyl urea compounds on a HALO ES-CN column in under 2 minutes.