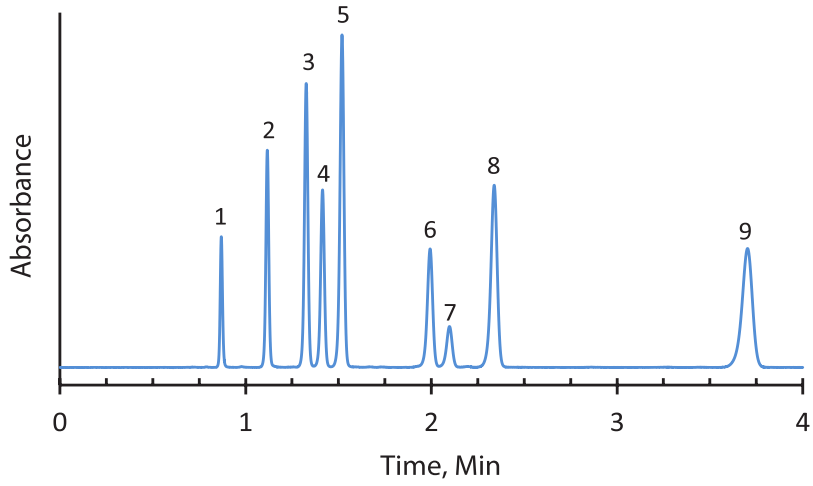
HALO®

ENVIRONMENTAL

Separation of Phenyl Urea Pesticides on HALO® Phenyl-Hexyl Phase

Application Note 55-PU



PEAK IDENTITIES:

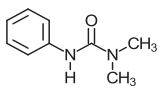
1. Fenuron
2. Monuron
3. Fluomethuron
4. Isoproturon
5. Diuron
6. Siduron A
7. Siduron B
8. Linuron
9. Neburon

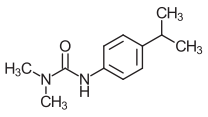
This separation illustrates the use of the highly efficient HALO® Fused-Core® Phenyl- Hexyl stationary phase in the analysis of common herbicides. The short run times allow analyses using isocratic conditions so that column equilibration time is not required between runs.

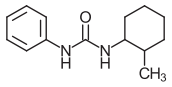
TEST CONDITIONS:

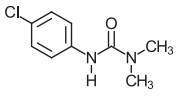
Column: HALO 90 Å Phenyl-Hexyl, 2.7 µm, 4.6 x 100 mm
Part Number: 92814-606
Mobile Phase: 50/50 - A/B
A: 0.025 M Potassium phosphate buffer, adj. to pH 2.5
B: Acetonitrile
Flow Rate: 1.5 mL/min
Pressure: 220 bar
Temperature: 30 °C
Detection: UV 245 nm, VWD
Injection Volume: 0.5 µL
Sample Solvent: Acetonitrile
Response Time: 0.02 sec
Flow Cell: 2.5 µL semi-micro
LC System: Shimadzu Prominence UFLC XR

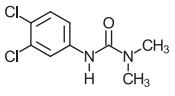
STRUCTURES:

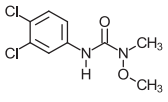

Fenuron

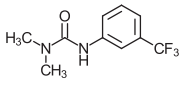

Isoproturon

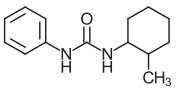

Siduron B

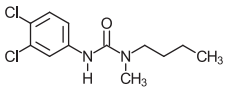

Monuron


Diuron


Linuron


Fluomethuron


Siduron A


Neburon

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