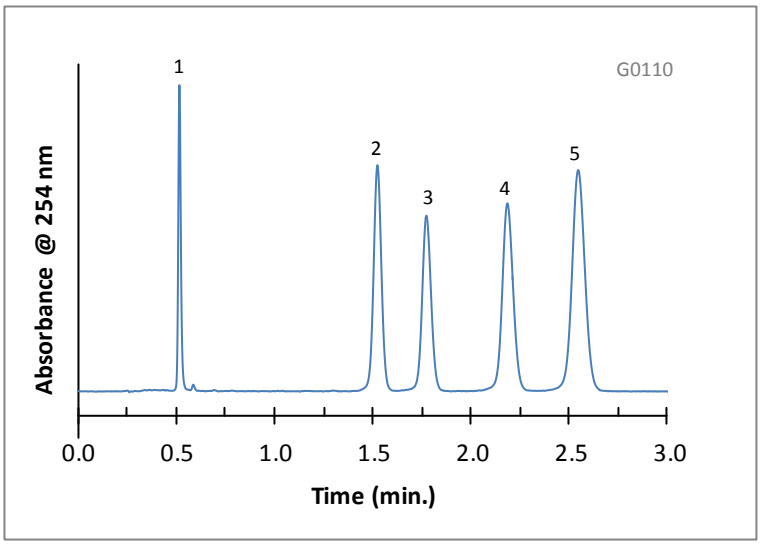
HALO® | Fused-Core® Particle Technology

Application Note: 126-IP

Separation of Iodonium Salts on HALO Phenyl-Hexyl



PEAK IDENTITIES:

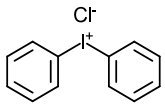
1. Diphenyliodonium chloride
2. (4-Nitrophenyl)(2,4,6-Trimethylphenyl) Iodonium triflate
3. (3-Bromophenyl)(2,4,6-Trimethylphenyl) Iodonium triflate
4. Bis(2,4,6-Trimethylphenyl) Iodonium Triflate
5. (4-Iodophenyl)(2,4,6-Trimethylphenyl) Iodonium Triflate

TEST CONDITIONS:

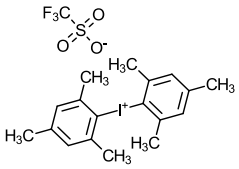
Column: 4.6 x 50 mm, HALO Phenyl-Hexyl, 2.7 µm
Part Number: 92814-405
Mobile Phase: 30/70: Water/methanol containing 50 mM Sodium heptane sulfonate
Flow Rate: 1.8 mL/min.
Pressure: 276 bar
Temperature: 30°C
Detection: UV 254 nm, VWD
Injection Volume: 2.0 µL
Sample Solvent: Mobile phase
Response Time: 0.02 sec.
Data rate: 25 Hz
Flow Cell: 2.5 µL semi-micro
LC System: Shimadzu Prominence UFLC XR
ECV: ~14 µL

Iodonium salts have gained favor as reagents for organic synthesis. They can be rapidly analyzed by HPLC using a HALO Fused-Core Phenyl-Hexyl column in an ion-pairing separation mode.

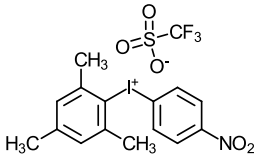
STRUCTURES:



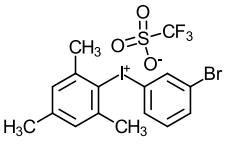
Diphenyliodonium Chloride



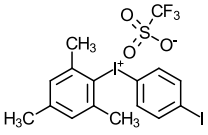
Bis(2,4,6-Trimethylphenyl) Iodonium Triflate



(4-Nitrophenyl)(2,4,6-Trimethylphenyl) Iodonium Triflate



(3-Bromophenyl)(2,4,6-Trimethylphenyl) Iodonium Triflate



(4-Iodophenyl)(2,4,6-Trimethylphenyl) Iodonium Triflate

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