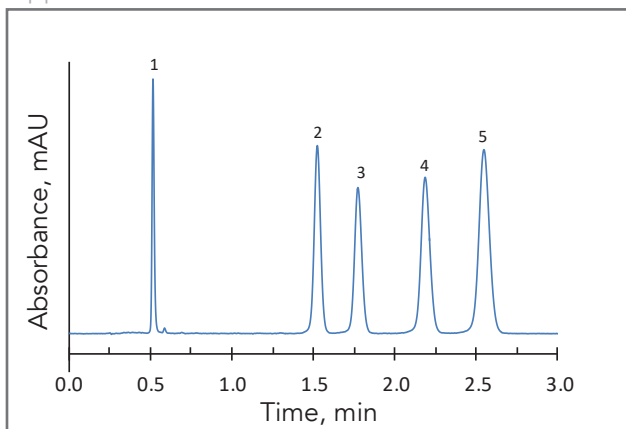




Separation of Iodonium Salts on HALO® Phenyl-Hexyl

Application Note 126-IP



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

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.

TEST CONDITIONS:

Column: HALO 90 Å Phenyl-Hexyl, 2.7 µm, 4.6 x 50 mm

Part Number: 92814-405

Mobile Phase: 30/70 - A/B

A: Water

B: Methanol with 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

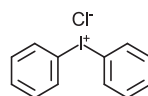
Data Rate: 25 Hz

Flow Cell: 2.5 µL semi-micro

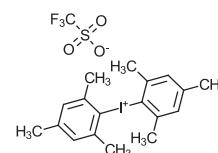
LC System: Shimadzu Prominence UFLC XR

Extra Column Volume: ~14 µL

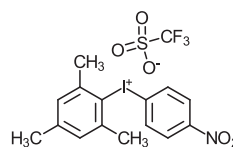
STRUCTURES:



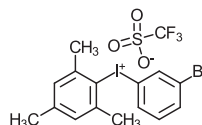
Diphenyliodonium Chloride



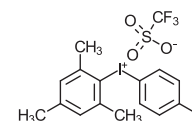
Bis(2,4,6-Trimethylphenyl) Iodonium Triflate



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



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



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

