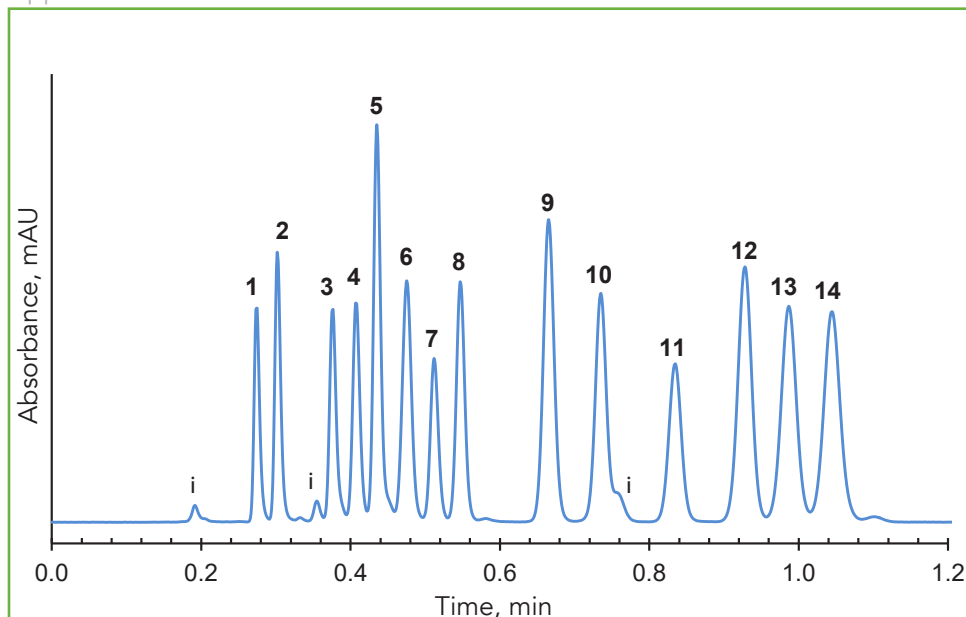




Rapid HPLC Separation of Aromatic Compounds on HALO® Phenyl-Hexyl

Application Note 86



PEAK IDENTITIES:

1. Uracil
 2. Benzamide
 3. Benzonitrile
 4. Propyl paraben
 5. Benzylbenzoate
 6. Diethylphthalate
 7. Toluene
 8. 1-Chloro-4-nitrobenzene
 9. Di-n-Propylphthalate
 10. n-Propylbenzene
 11. n-Butylbenzene
 12. Biphenyl
 13. Acenaphthene
 14. Phenanthrene
- i = Unknown compound

The high efficiency of the HALO® Fused-Core® Phenyl-Hexyl stationary phase allows the rapid separation of 14 compounds in under 1.2 minutes. This feature will speed up method development and also result in shorter analysis times.

TEST CONDITIONS:

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

Part Number: 92814-406

Mobile Phase: 23/77 - A/B

A: Water

B: Methanol

Flow Rate: 1.8 mL/min

Pressure: 400 bar

Temperature: 40 °C

Detection: UV 254 nm, VWD

Injection Volume: 1.0 µL

Sample Solvent: Methanol

Response Time: 0.02 sec

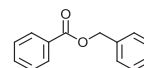
Flow Cell: 5.0 µL low-volume

LC System: Agilent 1100

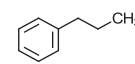
STRUCTURES:



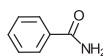
Uracil



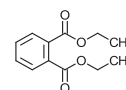
Benzylbenzoate



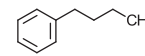
n-Propylbenzene



Benzamide



Diethylphthalate



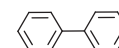
n-Butylbenzene



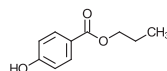
Benzonitrile



Toluene



Biphenyl



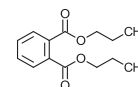
Propylparaben



1-Chloro-4-nitrobenzene



Acenaphthene



Di-n-P-propylphthalate



Phenanthrene

