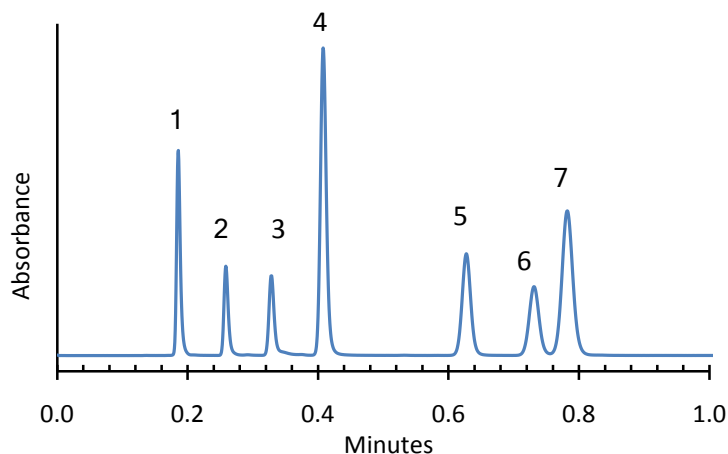


Application Note: 21-B

Isocratic Separation of Anilines on HALO RP-Amide



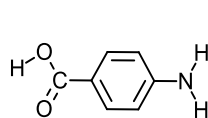
PEAK IDENTITIES:

1. p-Aminobenzoic acid
2. 1, 2-Phenylenediamine
3. p-Anisidine
4. Aniline
5. 3-Nitroaniline
6. 4-Chloroaniline
7. 2-Nitroaniline

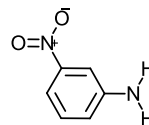
TEST CONDITIONS:

Column: HALO RP-Amide, 4.6 x 50 mm
 Part Number: 92814-407
 Mobile Phase: 60/40-- A/B
 A=0.02 M sodium phosphate buffer, pH=7.0
 B= Acetonitrile
 Flow Rate: 2.0 mL/min.
 Pressure: 180 Bar
 Temperature: 25°C
 Detection: UV 254 nm, VWD
 Injection Volume: 1.0 µL
 Sample Solvent: ACN/ water-50/50
 Response Time: 0.02 sec.
 Flow Cell: 2.5 µL semi-micro
 LC System: Shimadzu Prominence UFLC XR
 Extra column volume: ~14 µL

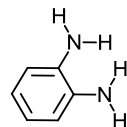
STRUCTURES:



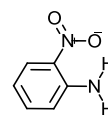
p-Aminobenzoic acid



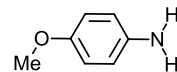
3-Nitroaniline



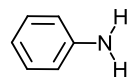
1,2-phenylenediamine



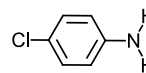
2-Nitroaniline



p-Anisidine



Aniline



4-Chloroaniline