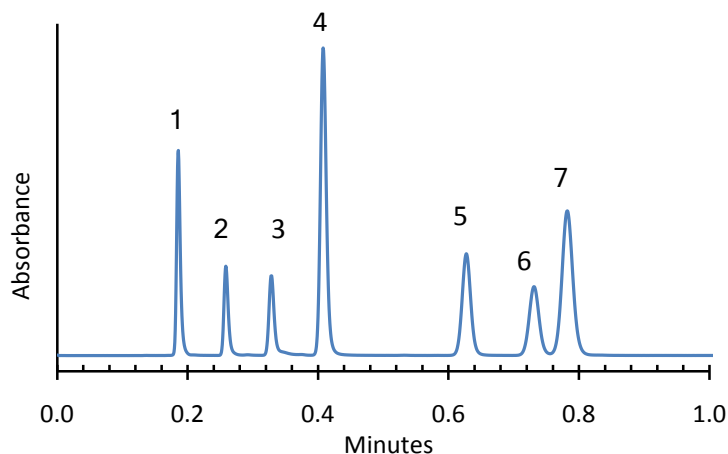


Application Note: 21-B

## Isocratic Separation of Anilines on HALO RP-Amide



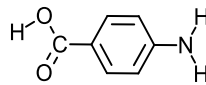
### PEAK IDENTITIES:

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

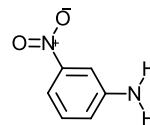
### TEST CONDITIONS:

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

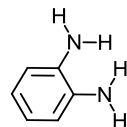
### STRUCTURES:



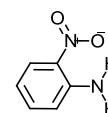
p-Aminobenzoic acid



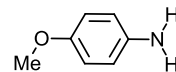
3-Nitroaniline



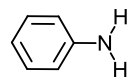
1,2-phenylenediamine



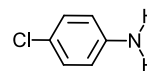
2-Nitroaniline



p-Anisidine



Aniline



4-Chloroaniline