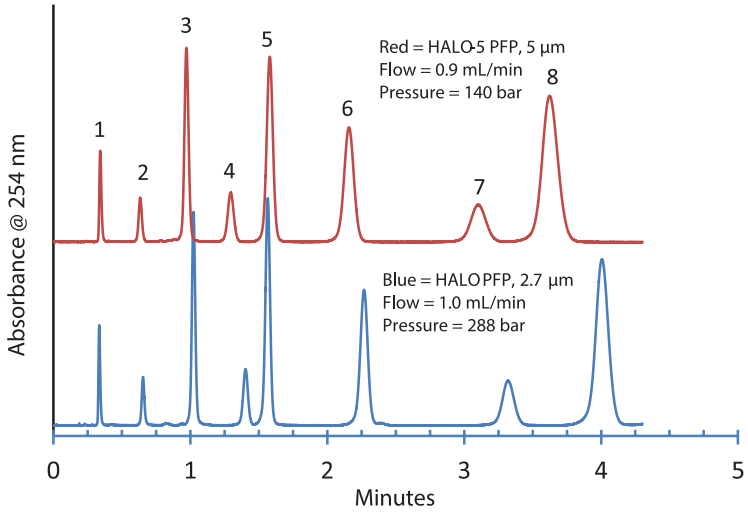
HALO®

ENVIRONMENTAL

Comparable Selectivity Between HALO® 5 µm and HALO® 2.7 µm PFP Phases

Application Note 81-HA



PEAK IDENTITIES:

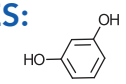
1. Resorcinol
2. Vanillin
3. Benzonitrile
4. Benzoin
5. Nitrobenzene
6. Benzanilide
7. Bisphenol A
8. Diethylphthalate

The similar selectivity between the 2.7 µm and the 5 µm HALO® PFP allows easy method transfer between these two particle size phases. Note the slight adjustment in flow to compensate for differences in void volume.

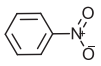
TEST CONDITIONS:

Columns:
1) HALO 90 Å PFP, 5 µm, 3.0 x 50 mm
Part Number: 95813-409
2) HALO 90 Å PFP, 2.7 µm, 3.0 x 50 mm
Part Number: 92813-409
Mobile Phase: 55/45 - A/B
A: 0.02 M KH_2PO_4 buffer, pH 3.0
B: Methanol
Flow Rate: See chart
Pressure: See chart
Temperature: 30 °C
Detection: UV 254 nm, VWD
Injection Volume: 0.5 µL
Sample Solvent: Methanol
Response Time: 0.02 sec
Flow Cell: 2.5 µL semi-micro
LC System: Shimadzu Prominence UFLC XR
Extra Column Volume: ~14 µL

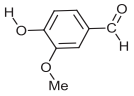
STRUCTURES:



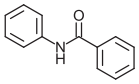
Resorcinol



Nitrobenzene

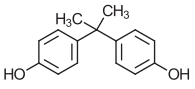


Vanillin

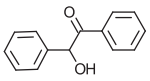


Benzanilide

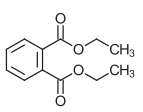
Benzonitrile



Bisphenol A



Benzoin



Diethylphthalate