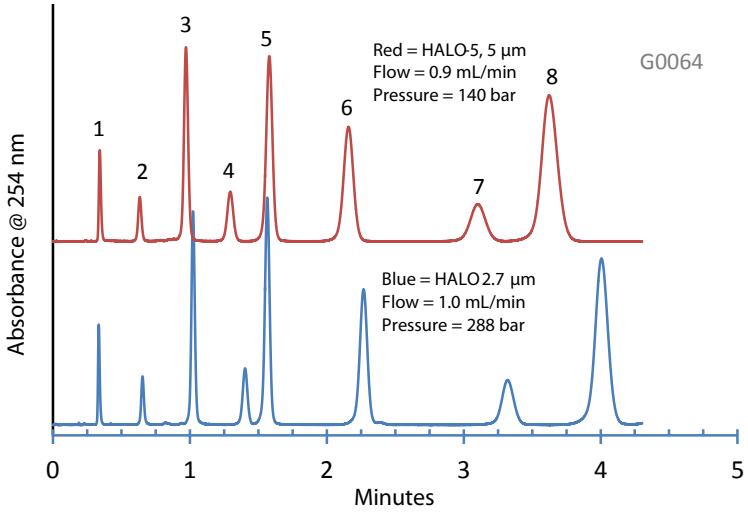
HALO® | Fused-Core® Particle Technology

Application Note: 081-HA

Comparable Selectivity between HALO® - 5 and HALO® 2.7 µm - PFP Phases



PEAK IDENTITIES:

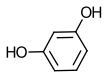
1. Resorcinol
2. Vanillin
3. Benzonitrile
4. Benzoin
5. Nitrobenzene
6. Benzanilide
7. Bisphenol A
8. Diethylphthalate

TEST CONDITIONS:

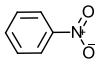
Column 1: 3.0 x 50 mm, HALO 5 µm PFP
Part Number: 95813-409
Column 2: 3.0 x 50 mm, HALO 2.7 µm PFP
Part Number: 92813-409
Mobile Phase : 55//45 : 0.0 2 M Potassium phosphate buffer, pH=3//methanol
Flow Rate: See chart
Pressure: See chart
Temperature: 30°C
Detection: UV 254 nm, VWD
Injection Volume: 0.5 µL
Sample Solvent: Methanol
Response Time: 0.02 sec.
Flow Cell: 2.5 µL semi -micro
LC System: Shimad zu Prominence UFLC XR
ECV: ~14 µL

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 column volume.

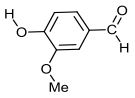
STRUCTURES:



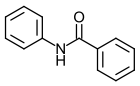
Reso rcinol



Nitrobenzene

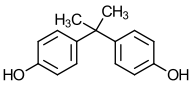


Vanillin

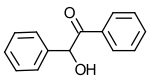


Benzanilide

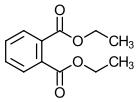
Benzonitrile



Bisphenol A



Benzoin



Diethylphthalate

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