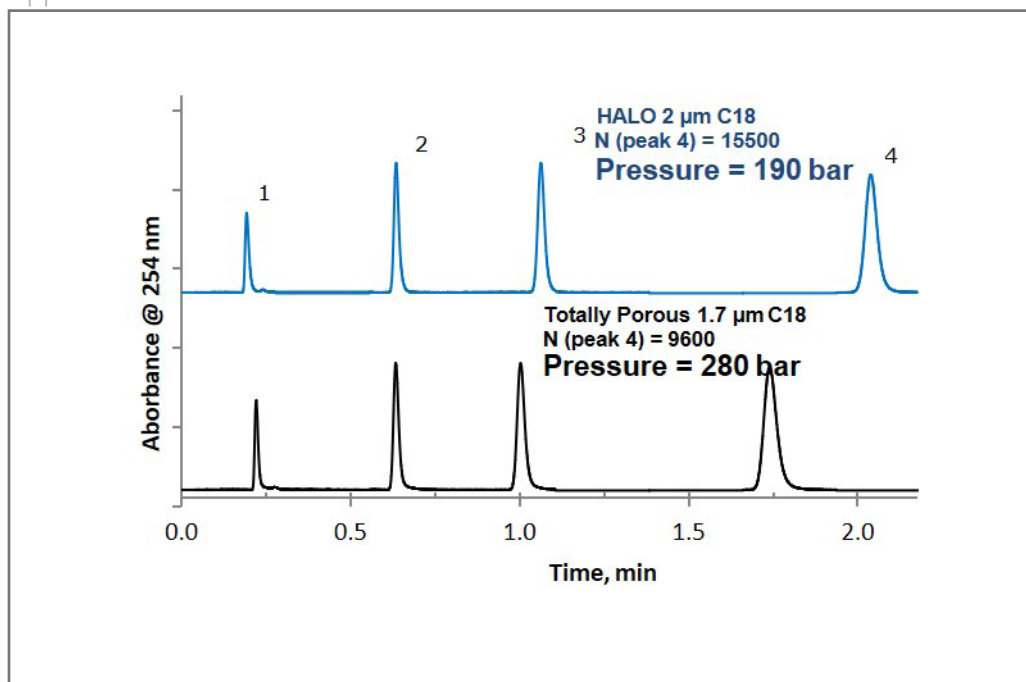




Higher Efficiency of HALO® C18 (2.0 µm Fused-Core®) Compared to a 1.7 µm Totally Porous C18 Column

Application Note 113



PEAK IDENTITIES:

1. Uracil
2. Pyrene
3. Decanophenone
4. Dodecanophenone

With a HALO® 2.0 µm C18 column, one can achieve a higher separation efficiency at less pressure than with a competitor's totally porous C18, 1.7 µm column.

TEST CONDITIONS:

Columns:

1) HALO 90 Å C18, 2.0 µm, 2.1 x 50 mm

Part Number: 91812-402

2) Totally porous C18, 1.7 µm, 2.1 x 50 mm

Mobile Phase: 15/85 - A/B

A: Water

B: Acetonitrile

Flow Rate: 0.5 mL/min

Pressure: See chart

Temperature: 25 °C

Detection: UV 254 nm, PDA

Injection Volume: 0.2 µL

Sample Solvent: 20/80 water/acetonitrile

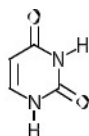
Response Time: 0.16 sec

Flow Cell: 1.0 µL

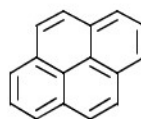
LC System: Shimadzu Nexera

Extra Column Volume: ~7 µL

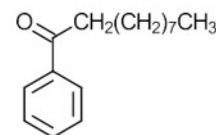
STRUCTURES:



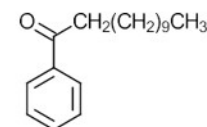
Uracil



Pyrene



Decanophenone



Dodecanophenone

