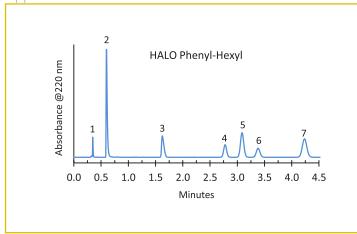
HALO

FOOD / BEVERAGE



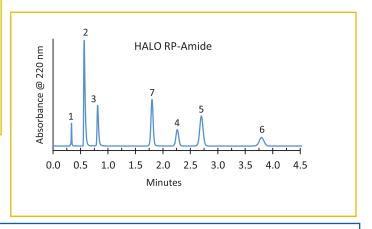
Separation of Food Additives on HALO® Phenyl-Hexyl and RP-Amide Phases

Application Note 95-P



PEAK IDENTITIES:

- 1. Ascorbic acid
- 2. Saccharin
- 3. Aspartame
- 4. Sorbic acid
- 5. Benzoic acid
- 6. Methyl paraben
- 7. Dehydroacetic acid



These compounds are often added to foods to sweeten or preserve them. They can be rapidly analyzed using HALO® Phenyl-Hexyl or RP-Amide phases. Note the difference in retention and selectivity of the two phases when run under the same conditions. This allows for flexibility in method development and optimization of the separation.

TEST CONDITIONS:

Columns:

1) HALO 90 Å Phenyl-Hexyl, 2.7 μm, 4.6 x 50 mm

Part Number: 92814-406

2) HALO 90 Å RP-Amide, 2.7 µm, 4.6 x 50 mm

Part Number: 92814-407 Mobile Phase: 70/30 - A/B

A: 0.025 M phosphate buffer, pH 2.5

B: Methanol Flow Rate: 1.5 mL/min Pressure: ~220 bar

Temperature: 40 °C

Detection: UV 220 nm, VWD **Injection Volume:** 2.0 µL

Sample Solvent: 50/50 water/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:

