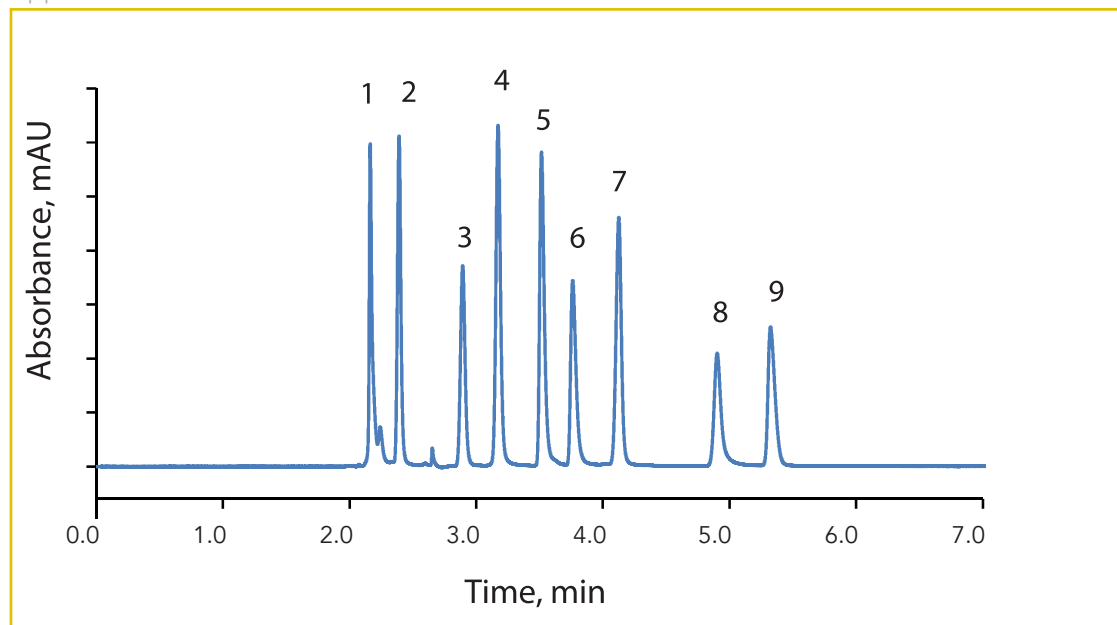




Separation of Polar Organic Acids on HALO® AQ-C18

Application Note 160-OA



PEAK IDENTITIES:

1. Oxalic acid
2. Tartaric acid
3. Malic acid
4. Ascorbic acid
5. L-Lactic acid
6. Acetic acid
7. Citric acid
8. Succinic acid
9. Fumaric acid

Organic acids are common in the food and beverage industry and can be found in many sample types such as fruits, vegetables, and wines. This separation of nine polar organic acids is performed on a HALO® AQ-C18 column using 100% aqueous mobile phase at low pH. The 250 mm column length was chosen to provide excellent resolution with reasonable run time for this polar mixture.

TEST CONDITIONS:

Column: HALO 90 Å AQ-C18, 2.7 μm ,
4.6 x 250 mm
Part Number: 92814-922
Isocratic: 20 mM potassium phosphate buffer,
pH 2.7
Flow Rate: 1.0 mL/min
Pressure: 307 bar
Temperature: 40 °C
Detection: UV 214 nm, PDA
Injection Volume: 20 μL
Sample Solvent: Mobile phase
Response Time: 0.025 sec
Data Rate: 100 Hz
Flow Cell: 1.0 μL
LC System: Shimadzu Nexera X2

STRUCTURES:

