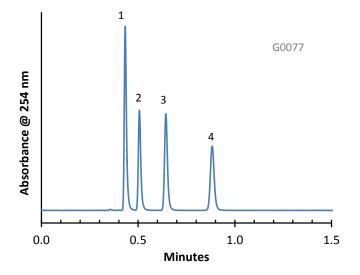
HALO: | Fused-Core® Particle Technology

Application Note: 094-P

Separation of p-Hydroxybenzoic Acid Esters (Parabens) on HALO C18 (2.7 µm)



PEAK IDENTITIES:

- 1. Methyl paraben
- 2. Ethyl paraben
- 3. Propyl paraben
- 4. Butyl paraben

TEST CONDITIONS:

Column: 4.6 x 50 mm, HALO C18, 2.7 µm

Part Number: 92814-402

Mobile Phase: 30/70: Water/methanol

Flow Rate: 1.5 mL/min.
Pressure: 196 Bar
Temperature: 40°C
Detection: UV 254 nm, VWD
Injection Volume: 0.5 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

ECV: ~14 μL

The parabens are used as preservatives in many cosmetics, shampoos, medications and food. They are considered to be safe but recent studies have indicated a possible connection with breast cancer. Four common parabens can be rapidly determined using a short HALO, 2.7 μ m, C18 column at a relatively low pressure.

STRUCTURES:

Methyl Paraben

$$C_2H_5$$

Ethyl Paraben

Propyl Paraben

Butyl Paraben



FOR MORE INFORMATION OR TO PLACE AN ORDER, CONTACT: