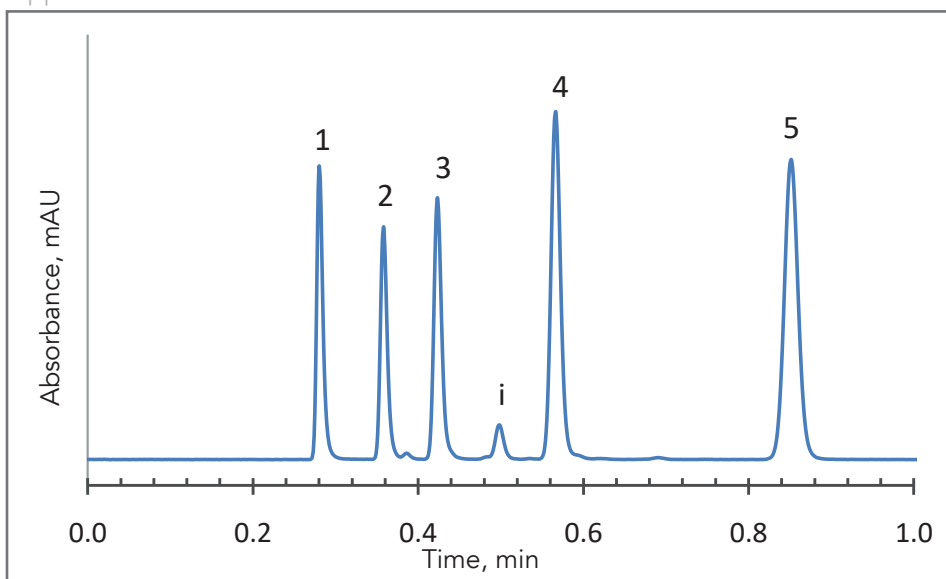




## Isocratic Separation of Phthalate Esters on HALO® C18

Application Note 24-P



### PEAK IDENTITIES:

1. Uracil
2. Dimethylphthalate
3. Diethylphthalate
- i = impurity
4. Di-n-propylphthalate
5. Di-n-butylphthalate

Plasticizers are used widely as additives in plastics to increase flexibility, durability and other desirable properties. Lower molecular weight phthalates can be volatile and are suspected of causing health problems. Here several of these are easily analyzed on a HALO® C18 column in under one minute.

### TEST CONDITIONS:

**Column:** HALO 90 Å C18, 2.7  $\mu\text{m}$ ,  
4.6 x 50 mm

**Part Number:** 92814-402

**Mobile Phase:** 20/80 - A/B

A: Water

B: Acetonitrile

**Flow Rate:** 1.5 mL/min

**Pressure:** 97 bar

**Temperature:** 27 °C

**Detection:** UV 254 nm, VWD

**Injection Volume:** 0.5  $\mu\text{L}$

**Sample Solvent:** Acetonitrile

**Response Time:** 0.02 sec

**Flow Cell:** 2.5  $\mu\text{L}$  semi-micro

**LC System:** Shimadzu Prominence UFLC XR

**Extra Column Volume:** ~14  $\mu\text{L}$

