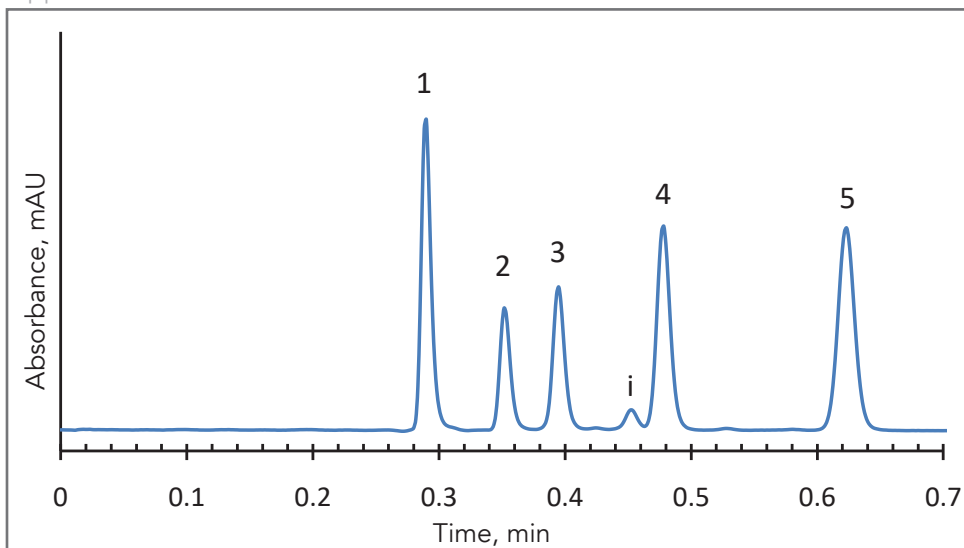




## Isocratic Separation of Phthalate Esters on HALO® RP-Amide

Application Note 25-P



### PEAK IDENTITIES:

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

In this separation four common plasticizers are analyzed on a HALO® RP-Amide column in a fraction of a minute. These compounds are used in the plastics industry to add desirable properties such as flexibility and durability. However, due to their volatility these lower molecular weight phthalates are suspected of causing health issues.

### TEST CONDITIONS:

**Column:** HALO 90 Å RP-Amide, 2.7 µm,  
4.6 x 50 mm

**Part Number:** 92814-407

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

A: Water

B: Acetonitrile

**Flow Rate:** 1.5 mL/min

**Pressure:** 88 bar

**Temperature:** 27 °C

**Detection:** UV 254 nm, VWD

**Injection Volume:** 0.5 µL

**Sample Solvent:** Acetonitrile

**Response Time:** 0.02 sec

**Flow Cell:** 2.5 µL semi-micro

**LC System:** Shimadzu Prominence UFLC XR

**Extra column volume:** ~14 µL

