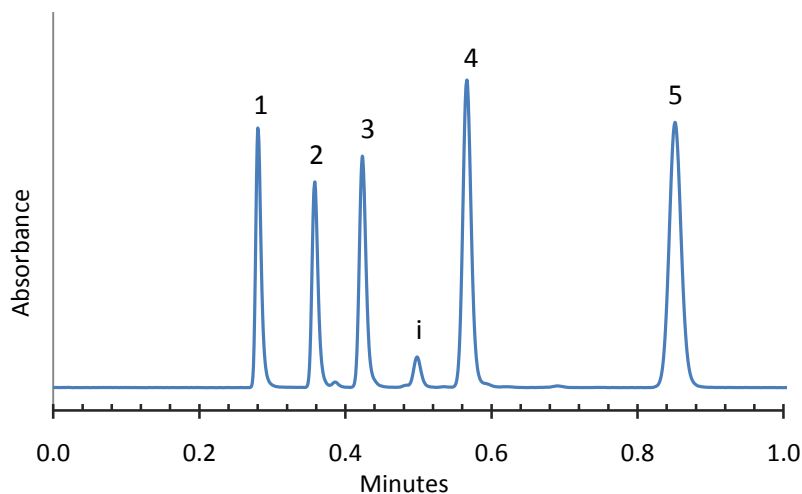


Application Note: 24-P

Isocratic Separation of Phthalate Esters on HALO C18



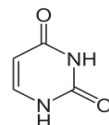
PEAK IDENTITIES:

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

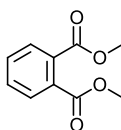
TEST CONDITIONS:

Column: 4.6 x 50 mm, HALO C18
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 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

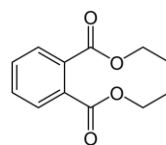
STRUCTURES:



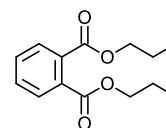
Uracil



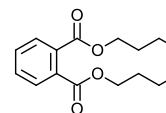
Dimethylphthalate



Diethylphthalate



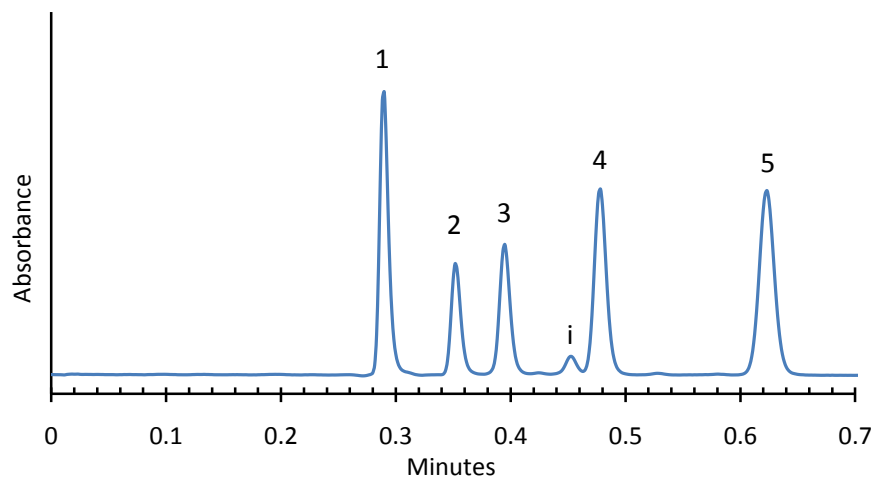
Di-n-propylphthalate



Di-n-butylphthalate

Application Note: 25-P

Isocratic Separation of Phthalate Esters on HALO RP-Amide



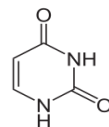
PEAK IDENTITIES:

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

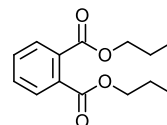
TEST CONDITIONS:

Column: 4.6 x 50 mm, HALO RP-Amide
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

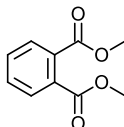
STRUCTURES:



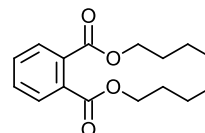
Uracil



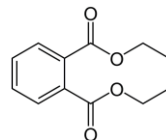
Di-n-propylphthalate



Dimethylphthalate



Di-n-butylphthalate



Diethylphthalate