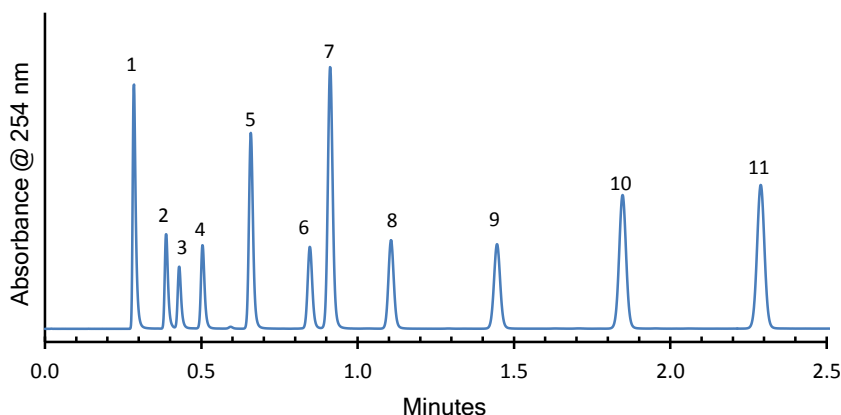


Application Note: 027-P

Rapid HPLC Separation of Phenones on HALO C18 Phase



PEAK IDENTITIES:

1. Uracil
2. 2',4'-Dihydroxyacetophenone
3. 2',6'-Dihydroxyacetophenone
4. Acetophenone
5. Propiophenone
6. Butyrophenone
7. Benzophenone
8. Valerophenone
9. Hexanophenone
10. Heptanophenone
11. Octanophenone

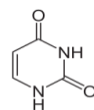
TEST CONDITIONS:

Column: 4.6 x 50 mm, HALO C18, 2.7 µm
 Part Number: 92814-402
 Mobile Phase: 40/60-A/B Gradient
 A= Water
 B=Acetonitrile

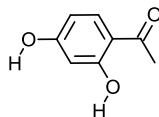
Time	%B
0.0	60
2.0	80
2.5	80

Flow Rate: 1.5 mL/min.
 Pressure: 126 Bar
 Temperature: 30 °C
 Detection: UV 254 nm, VWD
 Injection Volume: 1.0 µL
 Sample Solvent: 50/50-methanol/acetonitrile
 Response Time: 0.02 sec.
 Flow Cell: 2.5 µL semi-micro
 LC System: Shimadzu Prominence UFLC XR
 Extra column volume: ~14 µL

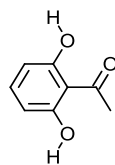
STRUCTURES:



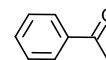
Uracil



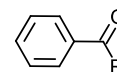
2',4'-Dihydroxyacetophenone



2',6'-Dihydroxyacetophenone



Acetophenone



Substituted Phenones

Propio-,	R=C ₂ H ₅
Butyro-,	R=C ₃ H ₇
Valero-,	R=C ₄ H ₉
Benzo-,	R=phenyl
Hexano-,	R=C ₅ H ₁₁
Heptano-,	R=C ₆ H ₁₃
Octano-,	R=C ₇ H ₁₅