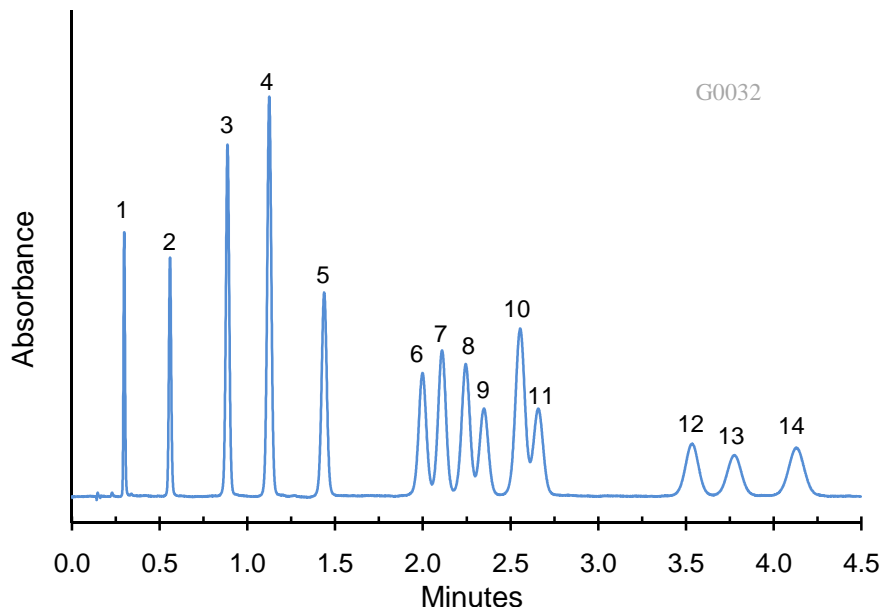


# HALO | Fused-Core® Particle Technology

Application Note: 050-EX

## Separation of Explosives on HALO C18



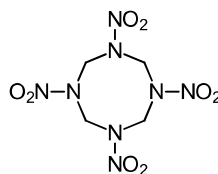
### PEAK IDENTITIES:

1. HMX
2. RDX
3. 1,3,5-Trinitrobenzene
4. 1,3-Dinitrobenzene
5. Tetryl
6. Nitrobenzene
7. 2, 4, 6-Trinitrotoluene
8. 4-Amino-2,6-trinitrotoluene
9. 2-Amino-4,6-dinitrotoluene
10. 2,6-Dinitrotoluene
11. 2,4-Dinitrotoluene
12. 2-Nitrotoluene
13. 4-Nitrotoluene
14. 3-Nitrotoluene

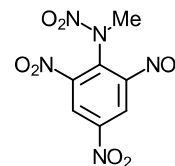
### TEST CONDITIONS:

Column: 4.6 x 50 mm, HALO C18  
 Part Number: 92814-402  
 Mobile Phase: A/B: 73/27  
 A=Water  
 B= Methanol  
 Flow Rate: 3.3 mL/min.  
 Pressure: 343 Bar  
 Temperature: 40°C  
 Detection: UV 254 nm, VWD  
 Injection Volume: 1.0 µL  
 Sample: Standards diluted with methanol/water  
 Response Time: 0.02 sec.  
 Flow Cell: 2.5 µL semi-micro  
 LC System: Shimadzu Prominence UFLC XR  
 ECV: ~14 µL

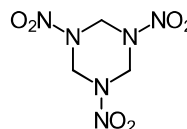
### STRUCTURES:



HMX



Tetryl



RDX

Fourteen explosive materials can be rapidly separated on the highly efficient HALO C18 phase in under 5 minutes at a relatively high flow rate and moderate pressure.