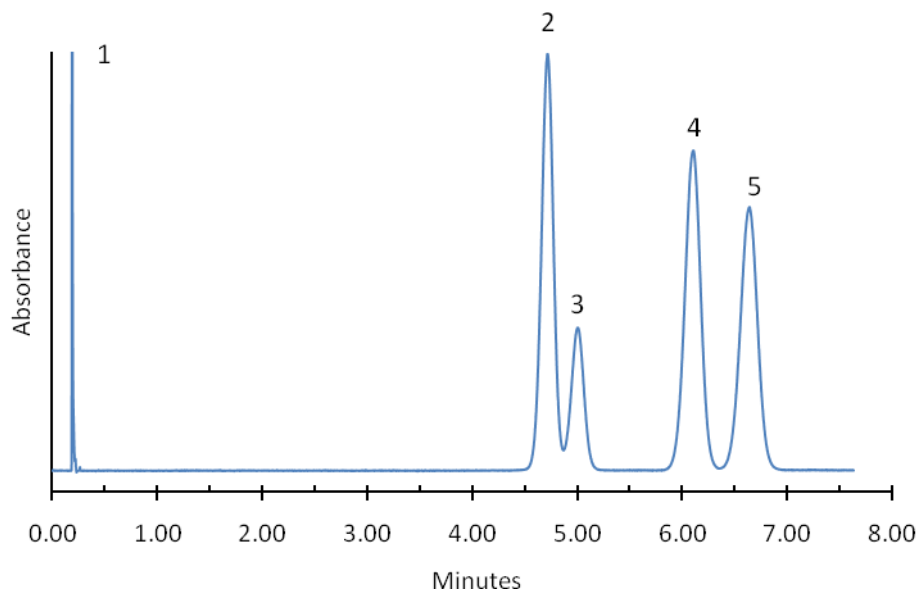


Application Note: 35-EX

## Isocratic Separation of Dinitrotoluenes on HALO RP-Amide Phase



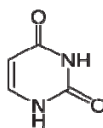
### PEAK IDENTITIES:

1. Uracil
2. 2,4-dinitrotoluene
3. 2,6-dinitrotoluene
4. 3,4-dinitrotoluene
5. 2,3-dinitrotoluene

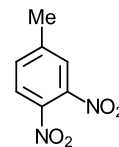
### TEST CONDITIONS:

Column: 4.6 x 50 mm, HALO RP-Amide  
Part Number: 92814-407  
Mobile Phase: 80/20-Water/Acetonitrile  
Flow Rate: 2.5 mL/min.  
Pressure: 257 Bar  
Temperature: 27 °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

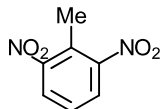
### STRUCTURES



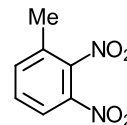
Uracil



3,4-Dinitrotoluene

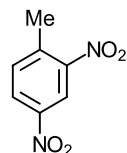


2,6-Dinitrotoluene



2,3-Dinitrotoluene

These dinitrotoluene isomers are difficult to separate, but can be separated with near baseline resolution in under 7 minutes using a HALO RP-Amide column.



2,4-Dinitrotoluene



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