

Application Report 330

EPA 8330 Mix A on Ascentis™ C18

The 8 component mixture is baseline resolved on Ascentis C18.

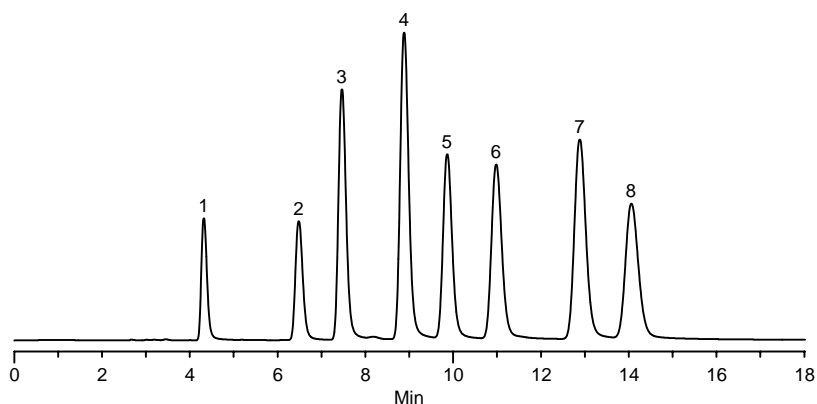
Key Words

explosive, HMX, cyclotetramethylene tetranitramine, 1,3,5,7-tetranitro-1,3,5,7-tetrazocane, 2691-41-0, 47236, RDX, cyclotrimethyltrinitramine, 1,3,5-trinitro-1,3,5-triazinane, 121-82-4, 47237, 1,3,5-trinitrobenzene, 99-35-4, 47243, nitrobenzene, 98-95-3, 47239, 2,4,6-trinitrotoluene, 118-96-7, 47244, 2-amino-4,6-dinitrotoluene, 35572-78-2, 47749-U, 2,4-dinitrotoluene, 121-14-2, 47747, 47283, Ascentis C18, 581305-U, EPA 8330

Author: Hillel Brandes

Acquisition System: Shimadzu LC-10AD High Pressure Mixing System (barkaboom)

Notebook Reference: 1531



G003278

Conditions

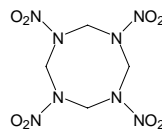
column: Ascentis C18, 25 cm x 2.1 mm I.D., 5 µm particles (581305-U)
mobile phase: 50:50, water:methanol
flow rate: 0.2 mL/min.
temp.: 60 °C
det.: UV at 254 nm
injection: 1 µL
sample: as indicated in acetonitrile

Peak IDs

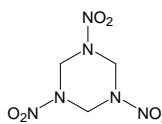
- | | |
|-------------------------------------|--|
| 1. HMX (100 mg/L) | 5. Nitrobenzene (100 mg/L) |
| 2. RDX (100 mg/L) | 6. 2,4,6-Trinitrotoluene (100 mg/L) |
| 3. 1,3,5-Trinitrobenzene (100 mg/L) | 7. 2,4-Dinitrotoluene (100 mg/L) |
| 4. 1,3-Dinitrobenzene (100 mg/L) | 8. 2-Amino-4,6-dinitrotoluene (100 mg/L) |

Structures

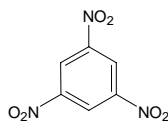
HMX - G003271



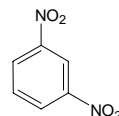
RDX - G003272



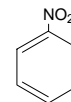
1,3,5-Trinitrobenzene - G003273



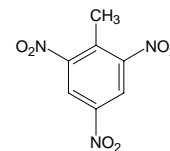
1,3-Dinitrobenzene - G003274



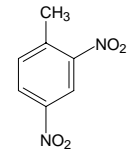
Nitrobenzene - G000740



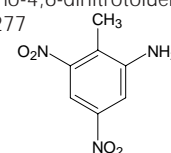
2,4,6-Trinitrotoluene - G003275



2,4-Dinitrotoluene - G003276



2-Amino-4,6-dinitrotoluene - G003277



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