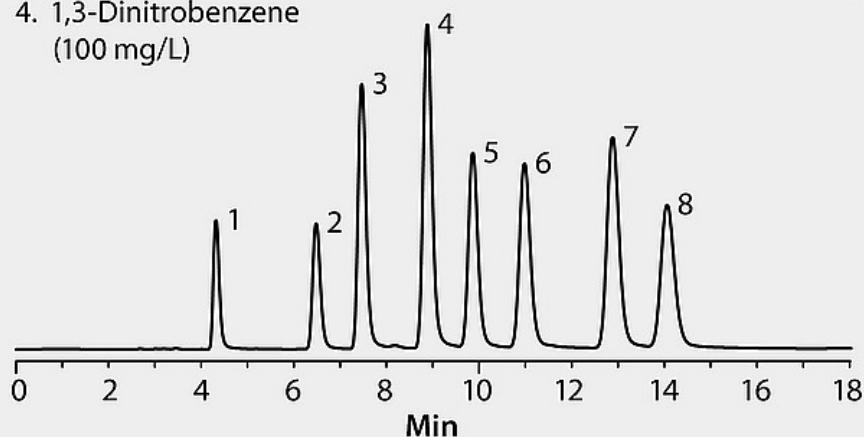


US EPA Method 8330: HPLC Analysis of Nitroaromatics and Nitramines, Mix A on Ascentis® C18

- | | |
|-------------------------------------|--|
| 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) |



Conditions

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

Description

Categories	Analytical Chromatography, Environmental Analysis, Explosives, Air toxics, Organics, Chromatograms, HPLC Chromatograms
Featured Industry	Environmental
Legal Information	Ascentis is a registered trademark of Sigma-Aldrich Co. LLC
suitability	application for HPLC

Materials

Product #	Image	Description
5.33001		Acetic acid 100% for LC-MS LiChropur™
1.00029		Acetonitrile hypergrade for LC-MS LiChrosolv®
73594		Ammonium acetate for mass spectrometry, LiChropur™, eluent additive for LC-MS

Product #	Image	Description
70221		Ammonium formate eluent additive for LC-MS, LiChropur™, ≥99.0%
581305-U		Ascentis® C18 HPLC Column 5 µm particle size, L × I.D. 25 cm × 2.1 mm
45966		1,3-Dinitrobenzene analytical standard
41980		1,3-Dinitrobenzene for HPLC derivatization, for the detection of steroids
45969		2,4-Dinitrotoluene analytical standard
ERD-033S		2,4-Dinitrotoluene solution 1000 µg/mL in acetonitrile, ampule of 1.2 mL, certified reference material, Cerilliant®
5.33002		Formic acid 98% - 100% for LC-MS LiChropur™
1.06035	CH₃OH	Methanol hypergrade for LC-MS LiChrosolv®
06084		Nitrobenzene PESTANAL®, analytical standard
40054		Nitrobenzene solution certified reference material, 5000 µg/mL in methanol
5.43841	KH₂PO₄	Potassium dihydrogen phosphate anhydrous for HPLC LiChropur™
69372		Triethylammonium acetate buffer for HPLC, 0.98-1.02 M
47243		1,3,5-Trinitrobenzene solution certified reference material, 1000 µg/mL in acetonitrile
ERT-022S		2,4,6-Trinitrotoluene solution 1000 µg/mL in acetonitrile, ampule of 1.2 mL, certified reference material, Cerilliant®
1.15333	H₂O	Water for chromatography (LC-MS Grade) LiChrosolv®