

# HPLC Application

ID No.: 17981

## EPA Method 8330: Explosive Mix Using Luna 3u Phenyl Hexyl

**Column:** Luna® 3 µm Phenyl-Hexyl 100 Å, LC Column 50 x 2 mm, Ea

**Dimensions:** 50 x 2 mm ID

**Order No:** 00B-4256-B0

**Elution Type:** Gradient

**Eluent A:** Methanol

**Eluent B:** Water

Gradient Profile:	Step No.	Time (min)	Pct A	Pct B
	1	0	55	45
	2	0.5	55	45
	3	4	75	25

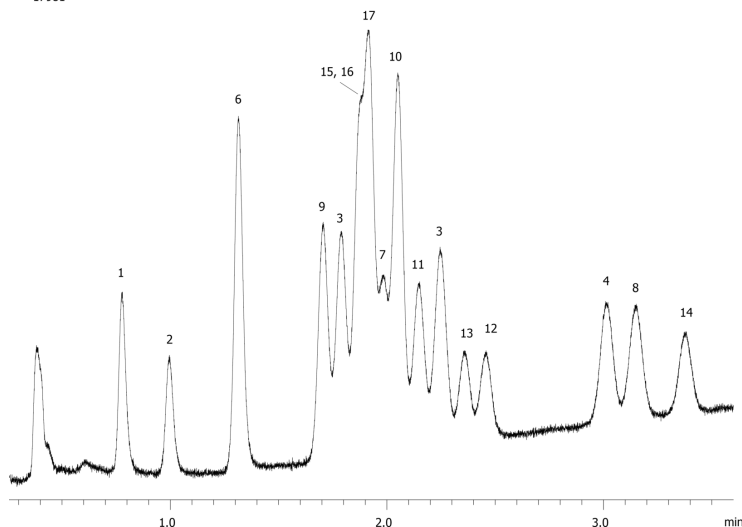
**Flow Rate:** 0.4 mL/min

**Col. Temp.:** 28 °C

**Detection:** UV-Vis Abs.-Variable Wave.(UV) @ 220 nm (ambient)

**Analyst Note:** 100ul of 100ug/ml 17 component mix was diluted with 900ul of 50:50 Methanol/water

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Products used in this application:



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### ANALYTES:

- 1** Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)
- 2** Hexahydro-1,3,5-trinitro-1,3,5-triazine
- 3** 1,3,5-Trinitrobenzene
- 4** Methyl-2,4,6-trinitrophenylnitramine (Tetryl)
- 5** 1,3-Dinitrobenzene
- 6** Nitrobenzene
- 7** Nitroglycerin
- 8** 2,4,6-Trinitrotoluene
- 9** 3,5-Dinitroaniline
- 10** 4-Amino-2,6 dinitrotoluene
- 11** 2 Amino-4,6 dinitrotoluene
- 12** 2,6-Dinitrotoluene
- 13** 2,4-Dinitrotoluene
- 14** Pentaerythritol tetranitrate
- 15** 2-Nitrotoluene
- 16** 4-Nitrotoluene
- 17** 3-Nitrotoluene

