

# HPLC Application

ID No.: 17912

## EPA Method 8330: Explosive Mix Using Synergi Hydro-RP

**Column:** Synergi™ 4 µm Hydro-RP 80 Å, LC Column 250 x 4.6 mm, Ea

**Dimensions:** 250 x 4.6 mm ID

**Order No:** 00G-4375-E0

**Elution Type:** Gradient

**Eluent A:** Methanol

**Eluent B:** Water

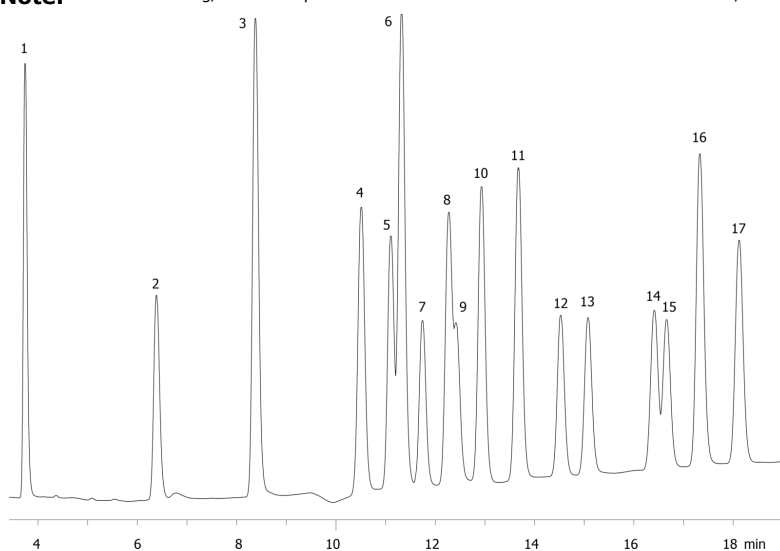
Gradient Profile:	Step No.	Time (min)	Pct A	Pct B
	1	0	55	45
	2	2	55	45
	3	22	75	25
	4	22.01	55	45
	5	25	55	45

**Flow Rate:** 1 mL/min

**Col. Temp.:** 25 °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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### 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

