

# HPLC Application

ID No.: 18146

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

**Column:** Synergi<sup>™</sup> 4  $\mu$ m Hydro-RP 80  $\text{\AA}$ , 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:** 20mM KH<sub>2</sub>PO<sub>4</sub>-pH=2.5

<b>Gradient Profile:</b>	<b>Step No.</b>	<b>Time (min)</b>	<b>Pct A</b>	<b>Pct B</b>
	<b>1</b>	0	55	45
	<b>2</b>	2	55	45
	<b>3</b>	12	65	35
	<b>4</b>	22	65	35

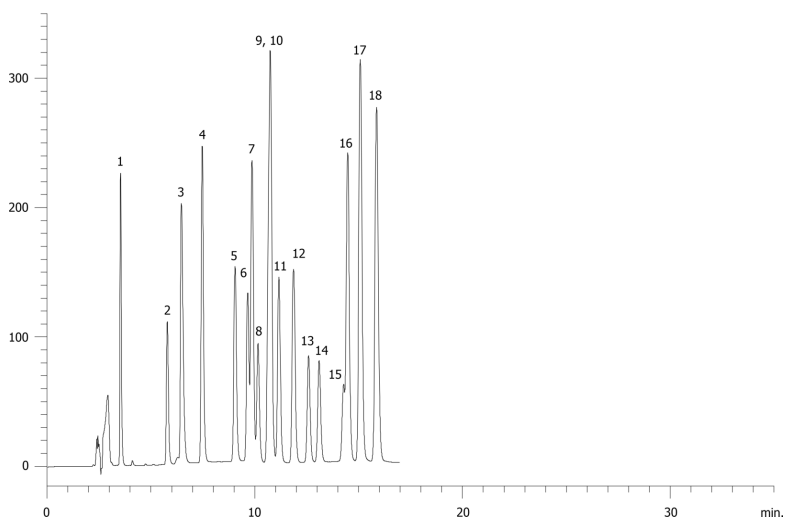
**Flow Rate:** 1 mL/min

**Col. Temp.:** 25 °C

**Detection:** UV-Vis Abs.-Variable Wave.(UV) @ 254 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** Picric acid
- 4** 1,3,5-Trinitrobenzene (1,3,5-TNB)
- 5** Methyl-2,4,6-trinitrophenylnitramine
- 6** 1,3-Dinitrobenzene (1,3-DNB)
- 7** Nitrobenzene
- 8** Nitroglycerin
- 9** 2,4,6-Trinitrotoluene (2,4,6-TNT)
- 10** 3,5-Dinitroaniline
- 11** 4-Amino-2,6-dinitrotoluene
- 12** 2-Amino-4,6-dinitrotoluene
- 13** 2,6-Dinitrotoluene (2,6-DNT)
- 14** 2,4-Dinitrotoluene (2,4-DNT)
- 15** Pentaerythritol tetranitrate (PETN)
- 16** 2-Nitrotoluene
- 17** 4-Nitrotoluene
- 18** 3-Nitrotoluene

