

HPLC Application

ID No.: 18146

EPA Method 8330: Explosive Mix Using Synergi Hydro-RP

Column: Synergi[™] 4 μ m Hydro-RP 80 \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 KH₂PO₄-pH=2.5

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

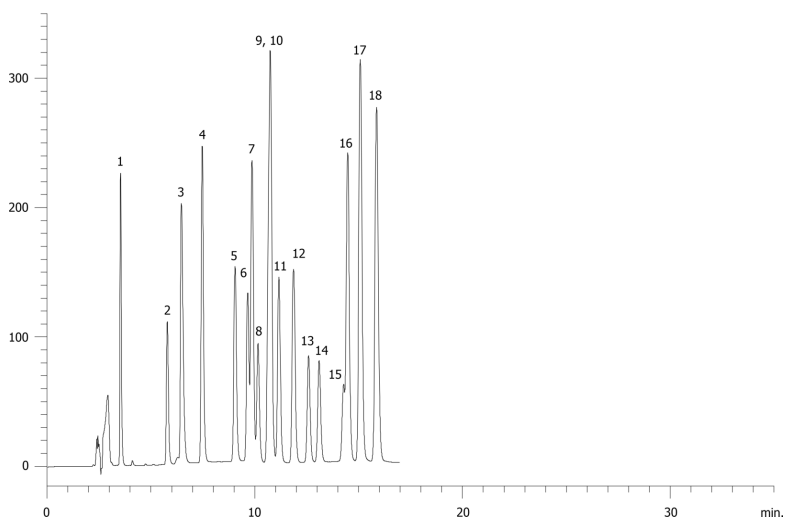
Flow Rate: 1 mL/min

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

