

# HPLC Application

ID No.: 17959

## EPA Method 8330: Explosive Mix Using Gemini 5u NX

**Column:** Gemini<sup>®</sup> 5  $\mu$ m NX-C18 110 Å, LC Column 250 x 4.6 mm, Ea

**Dimensions:** 250 x 4.6 mm ID

**Order No:** 00G-4454-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

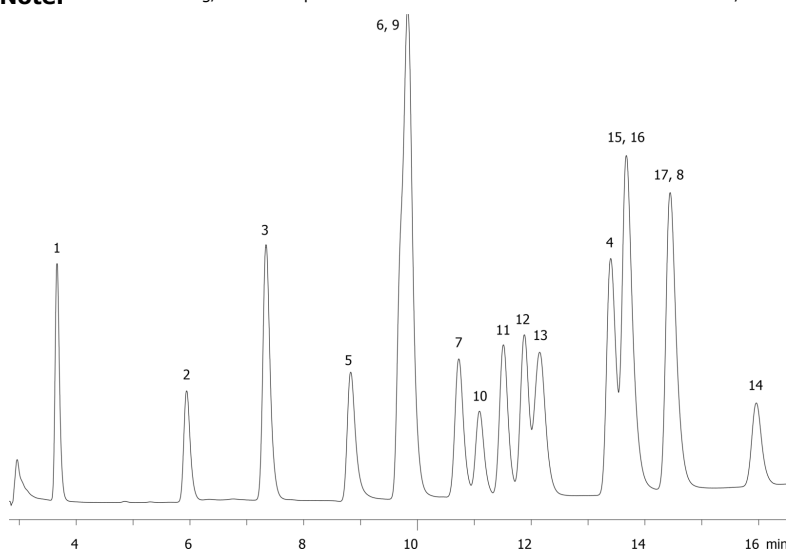
**Col. Temp.:** ambient

**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



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

