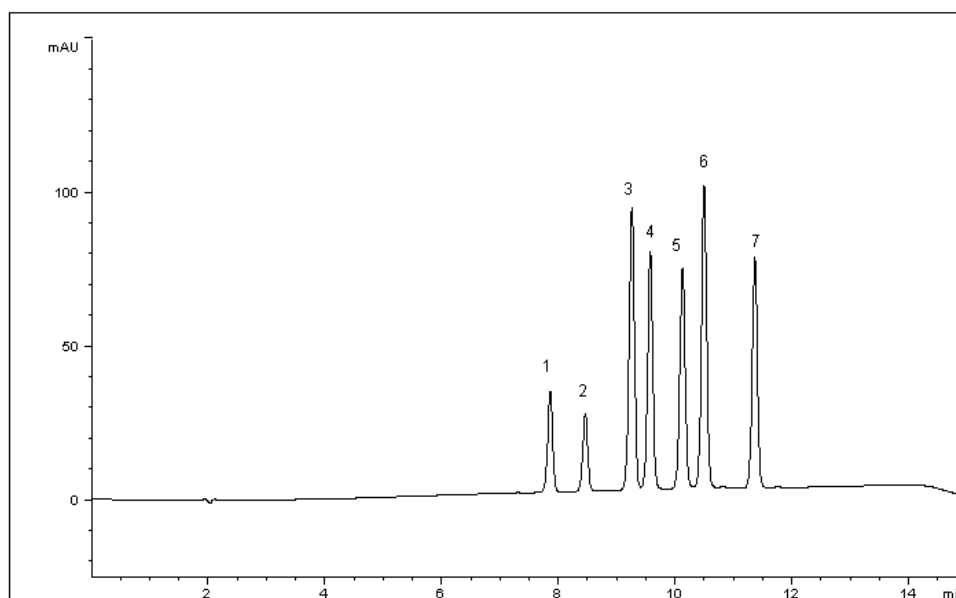


## A Reproducible Method for Detection of a Nitroaromatics

Click [HERE](#) for Column Ordering Information.

The EPA Standard Test Method (8330B) for the analysis of Seven Nitroaromatic and Nitroamine Explosives in Soil by HPLC requires the use of two Reversed-Phase Columns, C18 and CN in series. These Explosive compounds are notorious for separation difficulty due to the similarities in structure.

This Method has been developed for all seven of the Nitroaromatic Explosives and is rapid, sensitive, and Reproducible .



### Peaks:

1. Hexahydro-1,3,5-trinitro-1,3,5-triazine (HTNT)
2. Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (OTNT)
3. m-Dinitrobenzene (DMB)
4. 2-Amino-4,6-dinitrotoluene (ADNT)
5. 1,3,5-Trinitrobenzene (TNB)
6. 2,4-Dinitrotoluene (DNT)
7. 2,4,6-Trinitrotoluene (TNT)

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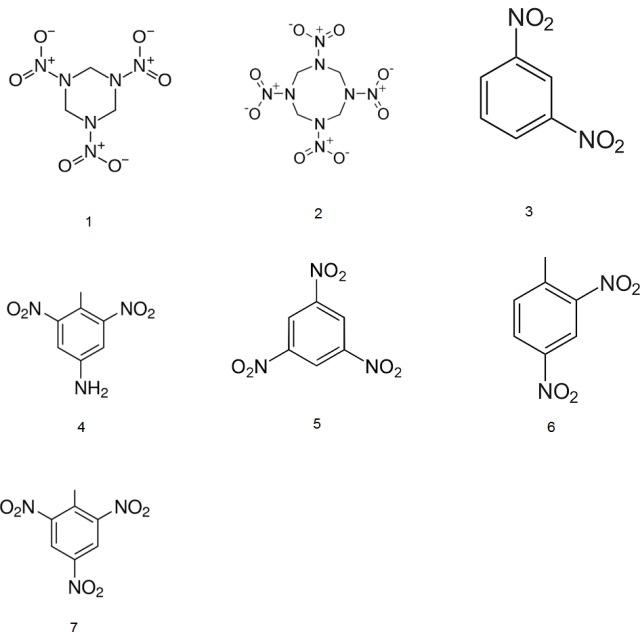
**MicroSolv Technology Corporation**

9158 Industrial Blvd. NE, Leland, NC 28451

tel. (732) 380-8900, fax (910) 769-9435

Email: [customers@mtc-usa.com](mailto:customers@mtc-usa.com)

Website: [www.mtc-usa.com](http://www.mtc-usa.com)



## Method Conditions

**Column:** Cogent Phenyl Hydride™, 4μm, 100Å

**Catalog No.:** 69020-15P

**Dimensions:** 4.6mm x 150mm

**Mobile Phase:**

A: DI Water with 0.1% Formic Acid (v/v)

B: Acetonitrile with 0.1% Formic Acid (v/v)

**Gradient:**

Time (minutes)	%B
0	25
10	65
11	25
15	25

**Injection vol.:** 1μL

**Flow rate:** 1.0mL / minute

**Detection:** UV @ 254nm

**Sample Preparation:** EPA Method 8330 Explosives Mixture each analyte @ 100 ug/mL Standard Solution in Acetonitrile

**%RSD:** <0.2%

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**Notes:** These solid compounds do not occur naturally in the environment. The commonly known compound, TNT, is an explosive used in military shells, bombs, and grenades, in industrial uses, and in underwater blasting. 2,4,6-Trinitrotoluene production in the United States occurs solely at military arsenals.

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Website: [www.mtc-usa.com](http://www.mtc-usa.com)