

## Method 8330 (Nitroaromatics and Nitramines by HPLC)

EPA Method 8330 is used to measure explosives residues in water and soil samples, using HPLC with UV detection. Target analytes are nitroaromatic and nitramine explosives and their degradation products.

### 8330 Internal Standards

3,4-dinitrotoluene  
1,000µg/mL in methanol, 1mL/ampul  
cat. # 31452 (ea.)

1,4-dinitrobenzene  
2,000µg/mL in acetonitrile, 1mL/ampul  
cat. # 33205 (ea.)

**new!**

### 8330 Surrogate

1,2-dinitrobenzene  
1,000µg/mL in methanol, 1mL/ampul  
cat. # 31453 (ea.)

### Nitroaromatics and Nitramine Explosives by HPLC, EPA 8330B (17 components)

2-amino-4,6-dinitrotoluene 2-nitrotoluene  
4-amino-2,6-dinitrotoluene 3-nitrotoluene  
3,5-dinitroaniline 4-nitrotoluene  
1,3-dinitrobenzene PETN  
2,4-dinitrotoluene RDX  
2,6-dinitrotoluene tetryl  
HMX 1,3,5-trinitrobenzene  
nitrobenzene 2,4,6-trinitrotoluene  
nitroglycerin  
1,000µg/mL each in acetonitrile, 1mL/ampul  
cat. # 33204 (ea.)

**new!**

### Nitroaromatics and Nitramine Explosives by HPLC (14 components)

1,3-dinitrobenzene 2-nitrotoluene  
2-amino-4,6-dinitrotoluene 3-nitrotoluene  
4-amino-2,6-dinitrotoluene 4-nitrotoluene  
2,4-dinitrotoluene RDX  
2,6-dinitrotoluene tetryl  
HMX 1,3,5-trinitrobenzene  
nitrobenzene 2,4,6-trinitrotoluene  
1,000µg/mL each in acetonitrile, 1mL/ampul  
cat. # 33905 (ea.)

### 8330 Calibration Mix #1 (7 components)

1,3-dinitrobenzene RDX  
2,4-dinitrotoluene 1,3,5-trinitrobenzene  
HMX 2,4,6-trinitrotoluene  
nitrobenzene  
1,000µg/mL each in acetonitrile, 1mL/ampul  
cat. # 31450 (ea.)

### 8330 Calibration Mix #2 (7 components)

2-amino-4,6-dinitrotoluene 3-nitrotoluene  
4-amino-2,6-dinitrotoluene 4-nitrotoluene  
2,6-dinitrotoluene tetryl  
2-nitrotoluene  
1,000µg/mL each in acetonitrile, 1mL/ampul  
cat. # 31451 (ea.)

### Single-Component Explosives Solutions

Volume is 1mL/ampul. Concentration is µg/mL.

Compound	Solvent	µg/mL	cat.# (ea.)
2-amino-4,6-dinitrotoluene	ACN	1,000	31670
4-amino-2,6-dinitrotoluene	ACN	1,000	31671
ammonium picrate	ACN	2,000	31890
3,5-dinitroaniline	ACN	1,000	31661
1,3-dinitrobenzene	ACN	1,000	31662
1,4-dinitrobenzene	ACN	2,000	33205
2,4-dinitrotoluene	ACN	1,000	31663
2,6-dinitrotoluene	ACN	1,000	31664
EGDN	M	1,000	31601
HMX	ACN	1,000	31665
nitrobenzene	ACN	1,000	31657
nitroglycerin	M	1,000	31498
nitroguanidine	M	1,000	31602
2-nitrotoluene	ACN	1,000	31659
3-nitrotoluene	ACN	1,000	31660
4-nitrotoluene	ACN	1,000	31658
PETN (pentaerythritol tetranitrate)	M	1,000	31600
picric acid	M	1,000	31499
propylene glycol dinitrate (PGDN)	M	1,000	31821
RDX	ACN	1,000	31666
tetryl	ACN	1,000	31667
1,3,5-trinitrobenzene	ACN	1,000	31668
2,4,6-trinitrotoluene	ACN	1,000	31669

ACN = acetonitrile  
M = methanol

also available

See materials for GC Method 8095 on pages 46L.

did you know?

When you order reference materials for Method 8330, be aware that obtaining pure, neat compounds for standards can be very difficult. Some of these commercial-grade materials contain desensitizing agents such as beeswax, water, or other manufacturing by-products. Many are shipped wet and must be carefully dried before preparation. To ensure the highest quality standards, Restek chemists use multiple analytical techniques including GC, HPLC, GC/MS, or DSC to verify raw material purity. All compounds are 98% pure or higher.



it's a fact

For excellent resolution and confirmation of EPA Method 8330B compounds, we recommend:

**Ultra C18** primary column (250 x 4.6mm, cat.# 9174575, page 322)

**Pinnacle™ II Biphenyl** confirmation column (150 x 4.6mm, cat.# 9209565, page 317)

For example chromatography, download our *Trace-Level Explosives Analysis by HPLC* applications note from [www.restek.com](http://www.restek.com).

lit. cat.# 59361A