

Explosives Standards

Product Specification

The following reference materials support analytical monitoring of US Department of Defense base closures and remediation. Analysis for these materials is typically by HPLC, using a UV detector, as described in US EPA SW-846 Method 8330.

These solutions are gravimetrically prepared in acetonitrile at 1000µg/mL. Each product is flame-sealed in an amber ampul under nitrogen to prevent oxidation and photodegradation. Products are supplied with a certificate of analysis stating appropriate lot information, gravimetric concentration, and analytical finished product test results.

Fourteen solutions are available, both individually and as a kit. Also available are two multicomponent solutions which, when combined, provide a composite analytical calibration set for Method 8330. Both single and multicomponent solutions are verified for stability.

For additional information about these products, please contact our Technical Service Department.

Ordering Information:

Single Component Energetic Reference Solutions

Description	Cat. No.
2-Amino-4,5-dinitrotoluene	47749-U
4-Amino-2,6-dinitrotoluene	47750
1,3-Dinitrobenzene	47746-U
2,4-Dinitrotoluene	47747
2,6-Dinitrotoluene	47748-U
HMX	47236
Nitrobenzene	47239
2-Nitrotoluene	47240
3-Nitrotoluene	47241
4-Nitrotoluene	47242
RDX	47237
Tetryl	47238
1,3,5-Trinitrobenzene	47243
2,4,6-Trinitrotoluene	47244

EPA 8330 Energetic Materials Kit[▲]

47245

This kit contains each of the following explosives at 1000µg/mL in acetonitrile.

2-Amino-4,5-dinitrotoluene	2-Nitrotoluene
4-Amino-2,6-dinitrotoluene	3-Nitrotoluene
1,3-Dinitrobenzene	4-Nitrotoluene
2,4-Dinitrotoluene	RDX
2,6-Dinitrotoluene	Tetryl
HMX	1,3,5-Trinitrobenzene
Nitrobenzene	2,4,6-Trinitrotoluene

[▲]HMX, RDX, and tetryl are shipped in separate containers as required under US Federal Department of Transportation guidelines.

Multicomponent Solutions for EPA Method 8330

EPA 8330 Mix A

47283

This mix contains each of the following explosives at 100µg/mL in acetonitrile.

2-Amino-4,6-dinitrotoluene	Nitrobenzene
1,3-Dinitrobenzene	RDX
2,4-Dinitrotoluene	1,3,5-Trinitrobenzene
HMX	2,4,6-Trinitrotoluene

EPA 8330 Mix B

47284

This mix contains each of the following explosives at 100µg/mL in acetonitrile.

4-Amino-2,6-dinitrotoluene	4-Nitrotoluene
2-Nitrotoluene	Tetryl
3-Nitrotoluene	2,6-Dinitrotoluene

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