

Analytical Reference Materials

High-Purity Explosives - On-Line Data Packs - Custom Mixes

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High-Purity Reference Materials for Explosives

HPLC with UV detection is used to measure nitroaromatic and nitramine explosives and their degradation products in water and soil samples.¹ Obtaining pure, neat compounds for these 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 carefully purify or synthesize each compound to 98% pure or higher.

Reference

1 US Environmental Protection Agency. *Test Methods for Evaluating Solid Waste, Physical/Chemical Methods*. SW-846 Update III, Office of Solid Waste, Washington, DC, 1997.
(Reference not available from Restek.)

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.)

8330 Internal Standard

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

8330 Surrogate

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

8330 Nitroaromatics Kit

31450: 8330 Calibration Mix #1
31451: 8330 Calibration Mix #2
31452: 8330 Internal Standard Mix
31453: 8330 Surrogate Mix

Contains 1mL each of these mixtures.
cat. # 31454 (kit)

For individual solutions of these analytes, please see our catalog, or visit our website.

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