

Explosives & Propellants Residue Analysis

“Specialised Analysis Simplified.”

Leeder Consulting specialise in non-routine laboratory analysis. Independence and commitment to your project’s **“data quality objectives”** enables us to suggest innovative and cost effective solutions. If it is high-tech, challenging, difficult or out of the ordinary - call us now.

Explosives and Propellants Residue Analysis

Leeder Consulting offer a new HPLC based method for detecting traces of explosive constituents at low nanogram levels in soils.

Large amounts of expired munitions and propellants have been disposed of over the last century. Most disposal involves combustion in the form of detonation or incineration, which partially removes some of the toxic constituents. However a significant proportion of dumped explosives have contaminated soil and ground-water.

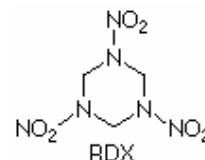
Many of these explosives and their metabolites have been found to be toxic and accurate assessment of environmental and health risks requires an accurate analytical method which can overcome the problems encountered in the past due to the thermal instability of explosive residues. This new HPLC method offered by Leeder Consulting was developed by the USEPA and includes the 12 USEPA listed explosives plus a number of additional, commonly used explosives and metabolites.

All these explosive constituents and metabolites (nitroaromatics and nitroamines) can be analysed down to low levels in one comprehensive test.



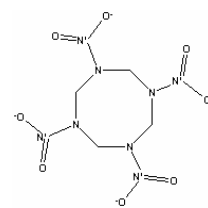
Explosives by HPLC (USEPA 8330)

2-amino-4,6-dinitrotoluene
4-amino-2,6-dinitrotoluene
2,4-dinitrotoluene
2,6-dinitrotoluene
HMX (Octogen)
RDX (Hexogen)
Nitrobenzene
2-nitrotoluene
3-nitrotoluene
4-nitrotoluene
Tetryl
TNT
1,3,5-trinitrobenzene



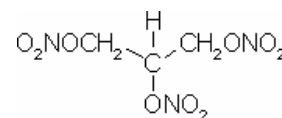
Nitroaromatics by GC/MS (USEPA 8270C)

Nitrobenzene
1,3-dinitrobenzene
2,6-dinitrobenzene
1,2-dinitrobenzene
2-nitrotoluene
3-nitrotoluene
4-nitrotoluene
TNT
1,3,5-trinitrobenzene
2-amino-4,6-dinitrotoluene
4-amino-2,6-dinitrotoluene
2,4-dinitrotoluene
2,6-dinitrotoluene



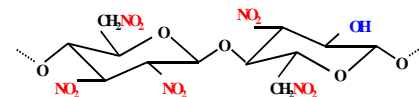
Specialty Explosives and Propellants by HPLC

Nitroglycerin
Picric acid
PETN
EGDN
Nitroguanidine (picrite)
Guanidine nitrate
Ammonium picrate
Baratol (bis(2,2-difluoro-2-nitroacetoxy ethane))
Torpex (TPX)
Minol



Nitrocellulose

Guncotton



Propellants

Dinitropropylene glycol
Dinitroethylene glycol

Tear Gas

Chloracetophenone

Leeder Consulting offer a range of specialised high-tech, non-routine and on-site services. Access to leading edge technology and expertise in Australia and overseas guarantees results when and where you require. To discuss your requirements or for more information call us now.



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