

# Certificate of Analysis

## Nitroaromatics in Soil

**Catalog Number:** SQCI-011  
**Lot Number:** S1019  
**Manufacture Date:** 05/23/19  
**Certified Date:** 05/29/19

**Expiration:** 05/30/2025  
**Matrix:** Solid  
**Hazards:** Irritant

<u>Analyte</u>	<u>Certified Concentration</u> (ug/kg)	<u>Acceptance Limits</u> (ug/kg)
1,3,5-Trinitrobenzene	5780	5780-5780
1,3-Dinitrobenzene	12030	12000-12000
2,4,6-Trinitrotoluene	7900	7900-7900
2,4-Dinitrotoluene	0.00	0.00-0.00
2,6-Dinitrotoluene	0.00	0.00-0.00
2-Amino-4,6-dinitrotoluene	1860	1860-1860
2-Nitrotoluene	3300	3300-3300
3-Nitrotoluene	1580	1580-1580
4-Amino-2,6-dinitrotoluene	9480	9480-9480
4-Nitrotoluene	2180	2180-2180
Hexahydro-1,3,5-trinitro-triazine	13250	13200-13200
Nitrobenzene	8620	7760-9480
Nitroglycerin	0.00	0.00-0.00
Nitroguanidine	0.00	0.00-0.00
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine	7710	7710-7710
Pentaerythritoltetranitrate	0.00	0.00-0.00
Tetryl	6260	6260-6260

### NR = Not Reported

This quality control sample was manufactured by NSI Lab Solutions following quality procedures meeting the requirements of ISO 9001, ISO 17025, and ISO 34. Acceptance limits are set at current industry standards. The study mean is set at the mean of an interlaboratory proficiency testing study with outlier rejection. This sample is intended to be used to validate analytical methods, for detection limit studies, and analyst proficiency testing.

### Storage & Instructions For Use

#### Required storage less than -10°C to -20°C.

Remove vial from the freezer and allow to equilibrate to room temperature (15-30°C).

Transfer the entire contents of the vial to your extraction vessel. Rinse the vial with two small aliquots of extraction solvent adding these solvents to the extraction vessel.

Proceed with preparation and analysis by your approved method.

Determine the concentration of the analytes listed. Assume the sample is 100% solids. No dry weight correction is required.

ISO 9001:2008 UL Registered Firm - Certificate # 10002343 QM08



ISO Guide 34:2009 - Certificate AR-1571



ISO/IEC 17043:2010 - Certificate AP-1693



ISO/IEC 17025:2005 - Certificate AT-1690

**Catalog Number:** SQCI-011

**Lot Number:** S1019

### Traceability Information

**Analyte Source Materials:** The highest purity analyte source materials are used in the manufacture of this sample. Analyte source material purity and associated uncertainty has been analytically verified against appropriate NIST SRMs, where available.

**Balance:** All analytical balances are calibrated on a semiannual basis by an ISO 17025 accredited calibration laboratory and are traceable to NIST. Traceable Calibration Certificate available upon request.

All balances are checked daily by an in-house standard operating procedure. The weights used for this daily verification are calibrated annually by an ISO 17025 accredited calibration laboratory and are certified traceable to NIST. Certificate of Calibration and Traceability available upon request.

**Thermometer:** All thermometers are NIST traceable through thermometers that are calibrated annually by an ISO 17025 accredited calibration laboratory.

**Glassware:** All glassware used in the manufacture of our samples is Class A. An in-house standard operating procedure is used to verify all glassware prior to it being placed into service. Volumetric pipetors are calibrated every four months by an ISO 17025 accredited calibration laboratory.

### Homogeneity/Stability/Expiration

This quality control sample was thoroughly mixed in production. Batch homogeneity was established through analyses of samples chosen at random. The stability of this quality control sample is based on short-term and long-term monitoring of the certified concentration. The expiration date is guaranteed to be valid from the manufacture date and is based on results of long-term monitoring.

*Kenneth Grzybowski*

---

Kenneth Grzybowski, Technical Organic Manager

ISO 9001:2008 UL Registered Firm - Certificate # 10002343 QM08



ISO Guide 34:2009 - Certificate AR-1571



ISO/IEC 17043:2010 - Certificate AP-1693



ISO/IEC 17025:2005 - Certificate AT-1690