

# Certificate of Analysis

## SVOCs in Soil

**Catalog Number:** SCQC-107  
**Lot Number:** 200218  
**Manufacture Date:** 02/18/2020

**Expiration:** 02/28/2023  
**Matrix:** Soil  
**Hazards:** Irritant, Carcinogen

<u>Analyte</u>	<u>CAS</u>	<u>Analyte Purity</u>	<u>Gravimetric Concentration (ug/kg)</u>			<u>Acceptance Limits (ug/kg)</u>
2,4,6-Trichlorophenol	88-06-2	100.0%	6864	±	63.9	3432 - 10296
2,4-Dichlorophenol	120-83-2	99.2%	11744	±	109.3	5872 - 17616
2,4-Dinitrophenol	51-28-5	99.8%	5812	±	54.1	2906 - 8718
2,4-Dinitrotoluene	121-14-2	99.8%	2130	±	19.8	1065 - 3195
2-Chlorophenol	95-57-8	99.5%	9997	±	93.1	4998 - 14995
3,3'-Dichlorobenzidine	91-94-1	98.0%	8972	±	83.5	1794 - 13459
Aniline	62-53-3	96.9%	8207	±	76.4	4104 - 12311
Benz(a)anthracene	56-55-3	97.1%	6816	±	63.5	3408 - 10224
Benzo(a)pyrene	50-32-8	100.0%	7664	±	71.4	3832 - 11497
Benzo(b)fluoranthene	205-99-2	99.4%	3025	±	28.2	1512 - 4537
Benzo(k)fluoranthene	207-08-9	100.0%	7110	±	66.2	3555 - 10665
Dibenz(a,h)anthracene	53-70-3	100.0%	10997	±	102.4	5498 - 16495
Butyl benzyl phthalate	85-68-7	99.5%	10924	±	101.7	5462 - 16386
bis(2-Ethylhexyl)phthalate	117-81-7	100.0%	7954	±	74.1	3977 - 11931
Di-n-octyl phthalate	117-84-0	98.9%	9406	±	87.6	4703 - 14110
Hexachlorocyclopentadiene	77-47-4	95.9%	5583	±	52.0	2792 - 8375
Naphthalene	91-20-3	99.8%	7537	±	70.2	3769 - 11306
Chrysene	218-01-9	99.9%	6059	±	56.4	3029 - 9088
Pentachlorophenol	87-86-5	96.8%	3012	±	28.0	1506 - 4518
Nitrobenzene	98-95-3	99.9%	10504	±	97.8	5252 - 15756
Indeno(1,2,3-c,d)pyrene	193-39-5	99.5%	4952	±	46.1	2476 - 7429

This certified reference material (CRM) was manufactured and certified by NSI Lab Solutions according to quality procedures meeting our accreditation requirements of ISO 17034:2015 and ISO/IEC 17025:2017. Our certificates and scopes of accreditation may be viewed at [www.anab.org](http://www.anab.org).

### Packaging, Storage, Instructions For Use

This CRM is packaged in a sealed container and must be stored at -10°C to -20°C. To use this CRM, allow it to reach room temperature. Complete the analysis according to your normal procedures. Report results in units of ug/kg based on a 30 g sample size. No dry weight correction is needed.

**Certified concentration is based upon the gravimetric/volumetric true value when prepared according to instructions.**

**Acceptance limits are based upon USEPA solid and chemical Interlaboratory studies.**

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### Traceability Information

**Analyte Source Materials:** The highest purity analyte source materials are used in the manufacture of this standard. The actual purity is referenced above.

**Method:** This CRM was verified Volumetrically/Gravimetrically

**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 standards 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.

### Intended Uses

- Calibration of analytical instruments
- Validation of analytical methods
- Preparation of working level reference materials, i.e. "check standards"
- Detection limit studies

### Homogeneity

This standard was thoroughly mixed in production and is guaranteed homogenous.

*Ken Grzybowski*

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Ken Grzybowski, Organics Department Manager

*Mark Hammersla*

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Mark Hammersla, President