

分析证明书

GB36600 土壤 半挥发性有机物质控样 (11项)

产品编号: SCQC-207
批号: 201216
生产日期: 2020-12-16

保质期: 2023-12-31
基质/溶剂: 土壤
危害: 刺激

项目	CAS	纯度	确认值 mg/Kg	接受区间 mg/Kg
硝基苯	98-95-3	99.9%	11.0 ± 0.10	6.60 - 15.4
苯胺	62-53-3	99.7%	4.33 ± 0.04	2.60 - 6.06
2-氯酚	95-57-8	99.5%	2.66 ± 0.02	1.60 - 3.73
苯并(a)蒽	56-55-3	95.9%	2.66 ± 0.02	1.60 - 3.72
苯并(a)芘	50-32-8	100%	2.71 ± 0.03	1.62 - 3.79
苯并(b)荧蒽	205-99-2	99%	7.66 ± 0.07	4.60 - 10.7
苯并(k)荧蒽	207-08-9	100%	2.68 ± 0.02	1.61 - 3.75
屈	218-01-9	99.9%	2.64 ± 0.02	1.58 - 3.69
二苯并(a,h)蒽	53-70-3	95%	2.65 ± 0.02	1.59 - 3.72
茚并(1,2,3-cd)芘	193-39-5	100%	2.69 ± 0.03	1.62 - 3.77
萘	91-20-3	99.3%	9.46 ± 0.09	5.68 - 13.2

该质控样品在 由美国NSI公司配制, 配制过程符合 ISO9001, ISO17025及 ISO17034 认证
接受区间根据当前美国能力验证行业标准设置
能力验证统计值 为 剔除不合格回报值后的实验室间能力验证结果统计值
该样品可用于: 方法验证、检测极限研究、能力验证等

储存及使用说明

2-8℃保存

1. 取样品回温至室温
2. 该样品为整体使用, 拆分称量取样不能保证样品均匀性
3. 样品全部倒入提取容器中, 并用提取溶液冲洗瓶壁2次, 合并冲洗液
4. 按照日常分析程序完成分析
5. 基于30g样品量 以mg/Kg为单位 回报结果
6. 不需要干燥校正

溯源

原料: 分析项目原料选用可用的最高纯度原料用于配制该样品。如有相应的 NIST标准物质可用, 原料纯度及不确定度会与其对照分析校验

天平: 所有天平按ISO17025校准实验室认证要求每季度校准一次, 溯源至NIST。所有天平每天按照内部标准操作程序查验, 查验所用砝码按17025认证要求每年校准一次。

温度计: 所有温度计溯源至 NIST, 每年校准一次

玻璃器皿: 此样品配制过程中涉及的所有玻璃器皿为 A 级。所有玻璃器皿启用前经过内部标准操作程序校验。移液器按17025认证要求每月校准一次。

均匀性/稳定性/保质期

该标物生产过程中已充分混匀, 批次均匀性按要求随机取样分析建立。该标物稳定性基于短期及长期对确认浓度的监测结果。保质期基于长期监测结果确保保质期内有效

不确定度

不确定度为 95%置信区间扩展系数 K=2.

Certificate of Analysis

SVOCs in Soil QC

Catalog Number: SCQC-207
Lot Number: 201216
Manufacture Date: 12/16/2020

Expiration: 12/31/2023
Matrix: Soil
Hazards: Irritant

<u>Analyte</u>	<u>CAS</u>	<u>Analyte Purity</u>	<u>Gravimetric Concentration (mg/kg)</u>			<u>Acceptance Limits (mg/kg)</u>
2-Chlorophenol	95-57-8	99.5%	2.66	±	0.02	1.60 - 3.73
Aniline	62-53-3	99.7%	4.33	±	0.04	2.60 - 6.06
Benz(a)anthracene	56-55-3	95.9%	2.66	±	0.02	1.60 - 3.72
Benzo(a)pyrene	50-32-8	100%	2.71	±	0.03	1.62 - 3.79
Benzo(b)fluoranthene	205-99-2	99%	7.66	±	0.07	4.60 - 10.7
Benzo(k)fluoranthene	207-08-9	100%	2.68	±	0.02	1.61 - 3.75
Chrysene	218-01-9	99.9%	2.64	±	0.02	1.58 - 3.69
Dibenz(a,h)anthracene	53-70-3	95%	2.65	±	0.02	1.59 - 3.72
Indeno(1,2,3-c,d)pyrene	193-39-5	100%	2.69	±	0.03	1.62 - 3.77
Naphthalene	91-20-3	99.3%	9.46	±	0.09	5.68 - 13.2
Nitrobenzene	98-95-3	99.9%	11.0	±	0.10	6.60 - 15.4

This certified reference material (CRM) was manufactured and certified by NSI Lab Solutions according to quality procedures meeting our accreditation requirements of ISO 17034:2016 and ISO/IEC 17025:2017. Our certificates and scopes of accreditation may be viewed at www.anab.org.

Packaging, Storage, Instructions For Use

This CRM is packaged in a sealed container and must be stored at 2°C to 8°C. To use this CRM, allow it to reach room temperature

This CRM has been designed to be totally used. Do not subsample since intra-sample homogeneity cannot be assured. Transfer the entire contents of the sample vial and rinse the vial with 2 small aliquots of extraction solvent adding rinsates to the extraction vessel. Complete the analysis according to your normal.

Report results in units of mg/kg based on a 30g 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.

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.

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Method: This CRM was verified Volumetrically

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

Ken Grzybowski

Ken Grzybowski, Organics Department Manager

Mark Hammersla

Mark Hammersla, President