Certificate of Analysis

Geosmin/2-Methylisoborneol

Catalog Number: CQC-067
Lot Number: NSI-PT260402104
Manufacture Date: 04/02/2026
Expiration: 04/31/2028
Solvent: Methanol
Hazards: Irritant, Flammable

Analyte	CAS	Analyte Purity	Gravimetric Concentration (ng/L)	Acceptance Limits (ng/L)
2-Methylisoborneol	2371-42-8	97.7%	252.1 ± 2.35	151 - 353
Geosmin	16423-19-1	99.0%	7.50 ± 0.07	4.50 - 10.50

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 flame-sealed ampule and must be stored at -10°C to -20°C. To use this CRM, allow it to reach room temperature. Mix it gently by inversion. Inspect for precipitate. If present, sonicate for a few minutes to redissolve.

Fill a 1000 mL Class A flask with about 900 mL organic free reagent water. Pipet exactly 1.0 mL of the ampule concentrate into the flask. Bring the flask to volume with reagent water and mix well. This represents the sample for analysis by your normal method.

Report in units of ng/L.

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

Acceptance limits are based upon USEPA Drinking Water and Non-Potable Water Interlaboratory Studies.

Traceability Information

Analyte Source Materials: All analytes and matrix materials are obtained and verified by NSI from pre-qualified vendors as per ISO guidelines. Vendor identifications are proprietary, however sources of all materials used in the preparation and testing of NSI CRMs are tracked and documented.

Catalog Number: CQC-067
Lot Number: NSI-PT260402104

Method of Preparation: This CRM was verified Volumetrically/Gravimetrically.
Clean laboratory procedures and techniques have been used throughout the preparation. All materials, equipment, and analytical instrumentation have been qualified prior to use as per ISO/IEC 17025 requirements.

Balance: All analytical balances are calibrated on a semiannual basis by an ISO/IEC 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/IEC 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/IEC 17025 accredited calibration laboratory.

Gravimetric Concentration: Gravimetric concentration is the made to manufacture value corrected for the determined analyte purity.

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 CRM was thoroughly mixed in production and is guaranteed homogenous.

Ken Grzybowski

Ken Grzybowski, Organics Department Manager

Hunter Fazler

Hunter Fazler, Quality Lead

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER ISO 17034:2016 Cetrificate # AR-1571