

Certificate of Analysis

Geosmin/2-Methylisoborneol

Catalog Number: CQC-067
Lot Number: 220728
Manufacture Date: 07/25/2022

Expiration: 07/31/2024
Solvent: Methanol
Hazards: Irritant, Flammable

<u>Analyte</u>	<u>CAS</u>	<u>Analyte Purity</u>	<u>Gravimetric Concentration (ng/L)</u>	<u>Acceptance Limits (ng/L)</u>
2-Methylisoborneol	2371-42-8	97.7%	277 ± 2.58	166 - 388
Geosmin	16423-19-1	99.0%	8.25 ± 0.08	4.95 - 11.55

Packaging, Storage, Instructions For Use

This standard is packaged in a flame-sealed ampule and must be stored at -10°C to -20°C. To use this standard, allow it to reach room temperature. Mix it gently by inversion. Inspect for precipitate. If present, sonicate for a few minutes to redissolve. Open the ampule and withdraw an aliquot appropriate for your application.

Allow the ampule to equilibrate to room temperature. 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 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: The highest purity analyte source materials are used in the manufacture of this standard. The actual purity is referenced above.

Method: This standard was verified Volumetrically

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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

Ken Grzybowski, Organics Department Manager

Mark Hammersla

Mark Hammersla, President