

# Certificate of Analysis

## Quantitative Residual Solvents

**Catalog Number:** CMQC-018  
**Lot Number:** H0321  
**Manufacture Date:** 02/2/2021

**Expiration:** 03/31/2024  
**Matrix:** Hemp Oil  
**Hazards:** Irritant, Flammable

<u>Analyte</u>	<u>CAS</u>	<u>Analyte Purity</u>	<u>Study Mean</u> (ug/g)	<u>Certified Concentration</u> (ug/g)	<u>Acceptance Limits</u> (ug/g)
1,2-Dichloroethane	107-06-2	99.9%	653	628 ± 5.85	609 - 697
Benzene	71-43-2	100%	474	581 ± 5.41	210 - 738
Chloroform	67-66-3	98.3%	213	207 ± 1.93	104 - 244
Dichloromethane	75-09-2	99.8%	527	438 ± 4.08	438 - 616
Trichloroethylene	79-01-6	98.6%	890	836 ± 7.78	723 - 1060
Acetone	67-64-1	99.9%	0.00	0.00 ± 0.00	0.00 - 0.00
Acetonitrile	75-05-8	99.9%	0.00	0.00 ± 0.00	0.00 - 0.00
Ethyl alcohol	64-17-5	100%	0.00	0.00 ± 0.00	0.00 - 0.00
Ethyl acetate	141-78-6	99.9%	893	869 ± 8.09	299 - 2450
Diethyl ether	60-29-7	100%	0.00	0.00 ± 0.00	0.00 - 0.00
n-Heptane (C7)	142-82-5	98.9%	136	130 ± 1.21	119 - 153
n-Hexane (C6)	110-54-3	99.1%	0.00	0.00 ± 0.00	0.00 - 0.00
Isopropyl alcohol	67-63-0	100%	0.00	0.00 ± 0.00	0.00 - 0.00
Methanol	67-56-1	99.6%	1265	935 ± 8.71	200 - 2330
Pentane	109-66-0	99.9%	0.00	0.00 ± 0.00	0.00 - 0.00
Toluene	108-88-3	100%	0.00	0.00 ± 0.00	0.00 - 0.00
m-Xylene	108-38-3	99.8%	0.00	0.00 ± 0.00	0.00 - 0.00
o-Xylene	95-47-6	99.6%	78.3	82.1 ± 0.76	46.0 - 111
p-Xylene	106-42-3	100%	0.00	0.00 ± 0.00	0.00 - 0.00
Xylenes - Total	1330-20-7	NA	79.1	82.1 ± 0.76	52.1 - 106
1,1-Dichloroethylene	75-35-4	100%	278	288 ± 2.68	196 - 360
Ethylene oxide	75-21-8	100%	0.00	0.00 ± 0.00	0.00 - 0.00
Butane	106-97-8	100%	0.00	0.00 ± 0.00	0.00 - 0.00
Propane	74-98-6	100%	0.00	0.00 ± 0.00	0.00 - 0.00
Naphta	8030-30-6	100%	0.00	0.00 ± 0.00	0.00 - 0.00
Petroleum ether	8032-32-4	100%	0.00	0.00 ± 0.00	0.00 - 0.00

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 17025:2005. 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 amber vial and must be stored at 2°C to 8°C. To use this CRM, allow it to reach room temperature. Mix it for homogeneity.

**Catalog Number:** CMQC-018  
**Lot Number:** H0321

This represents the sample for analysis by your normal method. Report in units of ug/g.

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

**Acceptance limits are based upon CALIFORNIA CODE OF REGULATIONS TITLE 16 DIVISION 42. BUREAU OF CANNABIS CONTROL**

### Traceability Information

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

**Method:** This CRM was verified Volumetrically and Analytically

**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 CRM was thoroughly mixed in production and is guaranteed homogenous.

*Ken Grzybowski*

Ken Grzybowski, Organics Department Manager

*Mark Hammersla*

Mark Hammersla, President