

# Certificate of Analysis

**Product Name:** Chlorinated Herbicides Standard

**Product Number:** HBM-405-1

**Lot Issue Date:** 18-Feb-2020

**Lot Number:** 0006517419

**Expiration Date:** 31-Mar-2021

**Description:**

This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system, and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	Concentration ± Uncertainty
acifluorfen	050594-66-6	NT02057	100.2 ± 0.5 µg/mL
bentazon	025057-89-0	NT02041	100.2 ± 0.5 µg/mL
chloramben	000133-90-4	RM02698	100.4 ± 0.5 µg/mL
2,4-D	000094-75-7	RM15948	100.3 ± 0.5 µg/mL
dalapon	000075-99-0	RM00202	100.4 ± 0.5 µg/mL
2,4-DB	000094-82-6	RM15879	100.2 ± 0.5 µg/mL
dicamba	001918-00-9	RM10023	100.4 ± 0.5 µg/mL
3,5-dichlorobenzoic acid	000051-36-5	NT02095	100.4 ± 0.5 µg/mL
dichlorprop	000120-36-5	RM15376	100.1 ± 0.5 µg/mL
dinoseb	000088-85-7	RM15844	100.3 ± 0.5 µg/mL
4-nitrophenol	000100-02-7	RM02404	100.1 ± 0.5 µg/mL
pentachlorophenol	000087-86-5	RM02474	100.4 ± 0.5 µg/mL
picloram	001918-02-1	RM13727	100.4 ± 0.5 µg/mL
2,4,5-TP	000093-72-1	RM04637	100.2 ± 0.5 µg/mL
2,4,5-T	000093-76-5	NT01808	100.3 ± 0.5 µg/mL
monomethyl tetrachloroterephthalate	000887-54-7	RM07701	100.4 ± 0.5 µg/mL
tetrachloroterephthalic acid	002136-79-0	RM15140	100.4 ± 0.5 µg/mL



ISO 17034 Cert No.  
AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026

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CSD-QA-015.1



ISO 17025 Cert  
No. AT-1937

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**Product Number:** HBM-405-1

**Lot Number:** 0006517419

**Matrix:** methyl tert-butyl ether (MTBE)

**Storage Conditions:** Store at Room Temperature (15° to 30°C).

**Traceability:**

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

**Homogeneity:**

This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

**Intended Use:**

This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification. □

**Instructions for Use:**

Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

**Hazards:**

Refer to the Safety Data Sheet on [www.agilent.com](http://www.agilent.com) for information regarding this RM.

**Expiration of Certification:**

The certification of this RM is valid until the expiration date specified above, provided the RM is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the RM is damaged, contaminated, or otherwise modified.

**Maintenance of Certification:**

If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

**Sample lot approver:**



Monica Bourgeois  
QMS Representative



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