

Certificate of Analysis

Product Name: Organophosphorous Pesticides Standard

Product Number: SPM-824-1

Lot Issue Date: 10-Jun-2020

Lot Number: 0006540607

Expiration Date: 31-Oct-2020

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 $\pm$ Uncertainty
guthion	000086-50-0	RM14898	200.3 $\pm$ 1.0 $\mu\text{g/mL}$
bolstar	035400-43-2	RM04166	200.5 $\pm$ 1.0 $\mu\text{g/mL}$
chlorpyrifos	002921-88-2	RM14246	200.4 $\pm$ 1.0 $\mu\text{g/mL}$
coumaphos	000056-72-4	RM15456	200.0 $\pm$ 1.0 $\mu\text{g/mL}$
demeton (total, mixed isomers)	008065-48-3	RM16437	200.0 $\pm$ 1.0 $\mu\text{g/mL}$
diazinon	000333-41-5	RM09202	200.2 $\pm$ 1.0 $\mu\text{g/mL}$
dichlorvos	000062-73-7	RM16085	200.4 $\pm$ 1.0 $\mu\text{g/mL}$
disulfoton	000298-04-4	RM16408	200.7 $\pm$ 1.0 $\mu\text{g/mL}$
ethoprop	013194-48-4	RM16362	200.3 $\pm$ 1.0 $\mu\text{g/mL}$
fensulfothion	000115-90-2	rm16561	200.7 $\pm$ 1.0 $\mu\text{g/mL}$
fenthion	000055-38-9	RM14881	200.0 $\pm$ 1.0 $\mu\text{g/mL}$
merphos	000150-50-5	RM16018	200.2 $\pm$ 1.0 $\mu\text{g/mL}$
methyl parathion	000298-00-0	RM16386	200.8 $\pm$ 1.0 $\mu\text{g/mL}$
mevinphos	007786-34-7	RM16040	200.9 $\pm$ 1.0 $\mu\text{g/mL}$
naled	000300-76-5	RM12651	200.1 $\pm$ 1.0 $\mu\text{g/mL}$
phorate	000298-02-2	RM15352	200.8 $\pm$ 1.0 $\mu\text{g/mL}$
fenchlorphos	000299-84-3	RM15363	200.0 $\pm$ 1.0 $\mu\text{g/mL}$

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tetrachlorvinphos	022248-79-9	RM05693	200.2 ± 1.0 µg/mL
tokuthion	034643-46-4	RM15364	200.7 ± 1.0 µg/mL
trichloronate	000327-98-0	RM16185	200.4 ± 1.0 µg/mL

Matrix: hexane/acetone (1:1)

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 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



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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ISO 17025 Cert
No. AT-1937