

▪ Certificate of Analysis ▪

Product: WatR™ Pollution Oil & Grease
Catalog Number: 504
Lot No. 270915
Certificate Issue Date: October 27, 2015
Expiration Date: October 31, 2018
Revision Number: Original

CERTIFICATION

Parameter	Certified Value ¹ mg/bttl	Uncertainty ² %	QC Performance Acceptance Limits ³ mg/bttl	PT Performance Acceptance Limits ⁴ mg/bttl
n-Hexane Extractable Material (O&G) (Grav)	158	0.215	116 - 200	116 - 180
n-Hexane Extractable Material (O&G) (IR)	194	0.175	128 - 260	144 - 220

PT DATA/TRACEABILITY

Parameter	Certified Value ¹ mg/bttl	Proficiency Testing Study Mean Recovery ⁵ n mg/bttl %			NIST Traceability SRM Number Recovery %	
n-Hexane Extractable Material (O&G)(Grav)	158	-	-	-	-	-
n-Hexane Extractable Material (O&G)(IR)	194	-	-	-	-	-

ISO/IEC GUIDE 34:2009



ISO/IEC 17025:2005



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1. The **Certified Values** are the actual "made-to" concentrations confirmed by ERA analytical verification. The infrared Certified Value is calculated from the relationship between the oil & grease substrate used to manufacture this standard and the reference oil mixture specified in Method 418.1. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate.

2. The stated **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation and internal analytical verification of the product by ERA, multiplied by a coverage factor. The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product.

3. The **QC Performance Acceptance Limits (QC PALs™)** are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this QC standard alongside USEPA and NELAC compliant PT standards. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and, therefore, the acceptance limits of this QC standard and any PT standard may differ relative to their difference in concentrations.

5. The **PT Data/Traceability** data include the mean value, percent recovery and number of data points reported by the laboratories in our Proficiency Testing study compared to the Certified Values. In addition, where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed.

Traceability Recovery (%) = $[(\% \text{ recovery certified standard})/(\% \text{ recovery NIST SRM})] \times 100$

The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs.

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller



Quality Officer

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