

Certificate of Analysis

Product Name: Conductivity Standard 1413 $\pm$ 5 μ S/cm at 25 °C (77 °F)
Product Code: HI7031L/C
Lot Number: 2987
Date of Analysis: 2026.03.03
Expiry Date: March 2031
Reference Meter: HI5522 EC Meter, HI76312D EC probe
Reference Method: ASTM D1125-23

**Metrological
Traceability:**

Calibration: Reference meter calibrated in 1-point with standard solution prepared from primary salts, certified reference material from NIST.
Calibration verification with primary standard solution certified reference material from ZMK, accredited DIN EN ISO 17034:2017.
Standard solutions are prepared gravimetrically using balances accurate to ± 0.0001 g, that have been fully qualified and calibrated in compliance with SR EN ISO/IEC 17025:2018 requirements, and deionized water for analytical use in compliance with SR EN ISO 3696:2002. Calibration and verification are carried out at 25°C with thermostatic bath checked by thermometer traceable to the SI.
ZMK-CRM: EC-1412, lot 01/25
NIST 1409 μ S/cm standard, prepared from SRM 999c
ZMK: Zentrum für Messen und Kalibrieren & ANALYTIK GmbH, Germany.
NIST: National Institute of Standards and Technology, Gaithersburg, USA.

Intended use: This conductivity solution is intended for use as a calibration standard for EC meters or electrodes or as a control sample for measuring the EC value
Accreditation: Hanna Instruments Testing Laboratory is accredited for conductivity testing by the Romanian Accreditation Authority RENAR, with certificate nr. LI 1282 in accordance with SR EN ISO/IEC 17025:2018.
Uncertainty U: The uncertainty interval represents the expanded uncertainty with a coverage factor of 2 and represents the 95% level of confidence.

Specifications:

Standard Value	Mean Value	Measurement Unit	Passed
1413	1408	μ S/cm	✓

Date of Issue: 2026.03.03
Laboratory Manager: Tulbure Eugenia



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