

## CERTIFICATE OF GRAVIMETRIC PREPARATION

**PRODUCT:** IC Standard Acetate 1000 mg/L  
**PRODUCT No.:** ICAS35  
**MATRIX:** H<sub>2</sub>O  
**LOT NO.:** ICAS3524F1  
**DATE OF PREPARATION:** 05<sup>th</sup> June 2024  
**EXPIRY DATE:** 28<sup>th</sup> June 2025  
**DENSITY VALUE:** 0.999 g/ml @ 20 °C

### **PREPARATION OF STANDARD:**

All standard components have been pre-qualified/verified before use. All analytical measuring devices and instrumentation have been pre-calibrated. The actual concentrations reported below are based on this preparation methodology and compound impurities.

Analyte	Raw Material	Nominal mg/L	Actual mg/kg
Acetate, as CH <sub>3</sub> COO <sup>-</sup>	Sodium Acetate	1000	1002 ± 0.2 %

**1002 mg/kg is equivalent to 1001 mg/L @ 20 °C**

The expanded uncertainty (k=2) due to weighing, volumetric preparation and homogeneity is calculated in compliance with EURACHEM/CITAC Guide: Quantifying Uncertainty in Analytical Measurements as ± 0.2 %. All values are verified by IC analysis using externally sourced ISO 17034 accredited Certified Reference Materials as calibrants/quality controls where possible.

### **TRACEABILITY IN THE PRODUCTION OF THIS STANDARD:**

This product was prepared gravimetrically on a mass/mass basis, using a balance calibrated by Reagecon engineers with mass standards traceable to the National and International primary standard of mass. Reagecon holds ISO 17025 accreditation for calibration of non-automatic weighing machines. The resulting Balance Certificate of Calibration was issued in accordance with the requirements of ISO/IEC 17025. The balance was calibrated under monitored environmental conditions and atmospheric pressure. Tests were performed for capacity, readability, repeatability, eccentricity, and linearity.

**TEST METHOD:**

The mean result of this standard was verified using a calibrated IC system according to an in-house test method. The result reported in this certificate was confirmed by analysis of a sample of this lot taken at time of manufacture. The density of this standard was determined using a high-performance calibrated density meter.

This certificate relates solely to the lot number given above.

**Approved By:** QC Supervisor



**Date:** 19<sup>th</sup> June 2024

This certificate must not be reproduced except in full.