Arlington, TX 76012 Pocomoke City, MD 21851 Batesville, IN 47006 http://www.riccachemical.com 1-888-GO-RICCA

Product Specification

customerservice@riccachemical.com

Verispec® Buffer, Certified Reference Material/Standard, pH 7.00 ± 0.01 at 25°C Color Coded Yellow

Manufactured and Tested in an ISO 17025/ISO 17034 Accredited Facility

Lot Number: SAMPLE Product Number: RV155100

Manufacture Date: N/A

Expiration Date: N/A

The certified value for this product is confirmed in independent testing by a second qualified chemist.

The NIST traceable pH value is certified to ±0.01 at 25 °C only. All other pH values at their corresponding temperatures are accurate to ± 0.05.

15 20 25 30 35 45 7.09 рH 7.127.06 7.04 7.02 7.00 6.99 6.98 6.98 6.97 6.97

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Sodium Phosphate Dibasic	7558-79-4	ACS
Potassium Dihydrogen Phosphate	7778-77-0	ACS
Preservative	Proprietary	
Yellow Dye	Proprietary	
Sodium Hydroxide	1310-73-2	

Mank	Contifical Wales	TT	NITOTI CIDNEH
Appearance	Yellow liquid	Yellow liquid	*Not a certified value.
Test	Specification	Result	

 Test
 Certified Value
 Uncertainty
 NIST SRM#

 pH at 25°C (Method: SQCP027, SQCP033)
 6.990-7.010
 0.018
 186-II-g, 186-II-g, 191d

Concept of certification and traceability statement:

pH measurement and certification were performed in our Arlington, TX, Pocomoke City, MD, or Batesville, IN laboratory under ISO/IEC 17025 accreditation (ANAB Certificate L2387) and ISO 17034 accreditation (ANAB Certificate AR-3140) and are certified traceable to National Institute of Standards and Technology (NIST) Standard Reference Material as indicated above via an unbroken chain of comparisons. The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k = 2, which for a normal distribution corresponds to a coverage probability of approximately 95%. The standard uncertainty of measurement has been determined in accordance with the Guide to the Expression of Uncertainty in Measurement (GUM) using the uncertainty budget template available from NIST at https://www.nist.gov/system/files/documents/2017/04/28/uncertainty_budget_table_template_16jan2013.xlsx. Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Level of homogeneity:

The solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. To ensure sufficient homogeneity, mix thoroughly by inversion prior to each use.

Intended use:

For Laboratory Use Only

This CRM is intended for:

Calibration of pH meters

Validation of analytical methods

This statement is not intended to restrict the use for other purposes.

Version: 1.3 Lot Number: SAMPLE Product Number: RV155100 Page 1 of 2

Instructions for the correct use of this reference material:

Dispense just enough of this buffer for immediate use. Rinse electrode(s) with one portion of buffer using a second portion for calibration. Buffer should not be diluted or returned to the bottle. Keep container tightly closed when not in use. Store at room temperature, away from fumes of acids or bases. The pH is certified at 25°C only. The pH values at other temperatures are calculated and not measured for individual lots.

If this product is frozen during transit, the uncertainty of the certified value will increase by 0.005 pH units.

Hazardous situation:

The normal laboratory safety precautions should be observed when working with this certified reference material. Refer to the Safety Data Sheet for detailed information on hazards associated with this material.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
RV155100-1A	1 L natural poly	24 months
RV155100-500A	500 mL natural poly	24 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)

This document is designed to comply with ISO Guide 31 "Reference Materials \cdots Contents of Certificates and Labels."



Certificate # AR-3140

This Certificate of Analysis shall not be reproduced, except in full, without the written approval of Ricca Chemical Company.

Version: 1.3 Lot Number: SAMPLE Product Number: RV155100 Page 2 of 2