ANALYTIKA®, spol. s r.o.

Khodlova 1297/47, CZ-193 00 Praha 9 – Horní Počernice





Verze formuláře / Version of the form: 03

Analytika, spol. s r.o., Oddělení RM, výrobce RM č. 7501, akreditovaný ČIA podle ČSN EN ISO 17034:2017 Analytika, spol. s r.o., Department of RM, Reference Materials Producer No. 7501 accredited by CAI according to ČSN EN ISO 17034:2017

CERTIFICATE

Calibration buffer solution for pH measurement pHanalTM CRMpH4001

This certificate is designed in accordance with ISO Guide 31

Certified reference material **Category:**

Product code: CRMpH4001

Description:

Basic buffer solution for very precise pH measurement formulated by IUPAC and NIST.

Composition:

Potassium hydrogen phthalate, germicide (< 0.01%), ultrapure demineralized water (resistivity $\geq 18M\Omega$.cm, 0.22µm filtered).

Certified pH value and expanded uncertainty (k = 2):

 4.001 ± 0.010 (at 20 °C)

Specification:

Batch No.: 0013

The date of production: 02.11.2022

Verze certifikátu / Version of the certificate: 01

Shelf life: 3 years from the date of production

The date of first opening of the bottle:

shelf life period, which should be indicated on the label of the bottle as well.

IUPAC pH scale temperature-dependent values: *)

10 °C	3.997	25 °C	4.005
15 °C	3.998	30 °C	4.011
20 °C	4.001	35 °C	4.018

*) The values in the table can be used as indicative values at the given temperatures

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Intended use:

For calibration of pH measurement and validation of analytical methods determining pH.

Certification and traceability:

This CRM is certified on the basis of a defined gravimetric method of preparation. Traceability to SRM NIST 185i is realized through a short unbroken chain of calibrations.

Homogeneity and stability:

It has been demonstrated that this CRM is homogenous and its stability is guaranteed during the whole shelf life provided the solution is kept under conditions prescribed bellow.

Storing and instructions for use:

This CRM has to be stored in the original closed bottle between 5-30 °C. The producer guarantees a declared shelf life and expiration time provided the CRM is properly stored and professionally handled. After each use, the bottle has to be immediately tightly capped and the screw cap sealed with a parafilm. Do not return removed aliquots to bottle! It is necessary to record the first opening of the bottle. From this date, the expiration time starts.

Producer:

ANALYTIKA®, spol. s r.o. Department of reference materials Ke Klíčovu 2a/816 190 00 Prague 9 – Vysočany Czech Republic

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Quality management systems of company ANALYTIKA®, spol. s r.o.:

ČSN EN ISO 9001:2016 ČSN EN ISO/IEC 17025:2018 ČSN EN ISO 17034:2017

Manager of Department of RM:

Petránhova 1

Head of production department:

Ing. Daniela Weisserová

Mgr. Mirka Petránková

Date of the first issue of certificate: 06.09.2023

Certificate revision date:

Revision of certificate:

Version of certificate: 01