

CERTIFICATE

Calibration solution for the measurement of electrical conductivity

CONDUCTANAL™ CON147

This certificate is designed in accordance with ISO Guide 31

Category: **Certified reference material**

Product code: **CON 147**

Starting primary compound and its purity: **KCl 99.99%**

Matrix:

Ultrapure demineralized water (resistivity $\geq 18\text{M}\Omega\cdot\text{cm}$, $0.22\mu\text{m}$ filtered).

Certified value of electrical conductivity and its expanded uncertainty ($k = 2$):

$14.7 \pm 0.15 \text{ mS/m}$

Specification:

Batch No.: 0052

The date of production: 24.11.2020

Shelf life: 2 years from the date of production

The date of first opening of the bottle:

Expiry date:12 months from the first opening of the bottle within shelf life period, which should be indicated on the label of the bottle as well.

Temperature dependence:

15 °C	11.85 mS/m	30 °C	16.12 mS/m
20 °C	13.28 mS/m	35 °C	17.75 mS/m
25 °C	14.70 mS/m	40 °C	19.15 mS/m

Intended use:

For calibration of instruments used for the determination of electrical conductivity and for validation of analytical methods measuring electrical conductivity.

Certification and traceability:

This CRM is certified on the basis of a defined gravimetric method of preparation. Traceability to SRM NIST 999b (KCl) 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 below.

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. 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

www.analytika.net
sales@analytika.net

Phone/Fax: +420 286 589 616

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:

Ing. Daniela Weissarová

Head of production department:

Mgr. Mirka Petránková

Date of the first issue of certificate: 16.02.2021

Revision of certificate:

Certificate revision date:

Version of certificate: 01