HORIBA
Scientific

LAQUA

pH | ORP | Conductivity

Quality pH Buffers and Standard Solutions

LAQUA Dosing Bottles*

www.horiba-laqua.com

* Available in Europe, Middle East and Africa only.

LAQUA

Accurate, Reliable, Easy to use

The HORIBA LAQUA NIST traceable pH buffers and standard solutions meet the highest quality standards for your accurate calibrations in the laboratory or field.

Accurate! pH accuracy up to ± 0.01 pH at 25°C.

Reliable! Double checked by an independent, certified laboratory.

Durable! 2 years shelf life and extended usable life after opening!

Traceable! All solutions are traceable to NIST standard reference materials.

Certified! Each solution is provided with a Certificate of Analysis.

Clean! Dosing bottles ensure contamination-free solution.

Sealed! Sealed cap ensures the bottle has not been tampered with

Innovative dosing bottles

Pouring solution back into the standard solution bottle results in contamination and inaccurate calibration. The new LAQUA standard solutions are packaged in a dosing bottle which prevents contamination. Also, just a soft squeeze on the bottle will provide you the amount you need for calibration!

Long shelf life and usable life

Aside from 2 years shelf-life, the standard solutions have extended usable life after opening since only small amount of air can get into the bottle. Carbon dioxide in air can contaminate standard solutions, especially low conductivity standards and pH 10.01 buffer.

Quality assurance

Each batch of standard solution is being double-checked by an independent, certified laboratory in Germany to guarantee the accuracy and reproducibility of values.

Packaging

Each bottle is carefully packed in a transparent plastic zip bag which also holds the certificate of analysis.

Certificate of analysis

All standard solutions are supplied with certificates of analysis (COAs).

HORIBA *Certificate of Analysis*
Analyse Certificaat / Analysenzertifikat

Calibration Solution 1413 µS/cm (25°C)

Geleidbaarheid kalibratie Vloeistof / Leitfähigkeitsstandard

Product Number/ *Artikel Nr:* 1300045591, 1300045595
Lot Number / *Lot Nummer / Chargen Nr:* EC143071
Expiry date / *Vervaldatum / Verfallsdatum* 24-7-2020

Actual value / *Werkelijke waarde / Wert* @ 25°C 1411 µS/cm
Accuracy until expiration/
Nauwkeurigheid tot vervaldatum/ ± 1%
Genauigkeit bis Verfallsdatum

Specification / *Specificatie / Spezifikation*
1399 µS/cm - 1427 µS/cm (25°)

Method / *Methode*
The result reported above was determined by analysis of a sample of this lot taken at the time of ma
The EC measurement was performed using a Conductivity instrument with a 2 cell electrode calibrat
secondary reference materials. Merck KGaA, 1.01203.0500 Lotnr: HC43479403
Het bovenvermelde resultaat werd bepaald door analyse van een monster van deze partij, genomen
De Geleidbaarheid-meting werd uitgevoerd met een geleidbaarheid instrument met een 2 cel elektro
traceerbaar secundaire referentiematerialen, Merck KGaA, 1.01203.0500 Lotnr: HC43479403
Das oben berichtete Ergebnis wurde festgestellt durch die Analyse einer Probe dieser Chargen weis
genommen wurde.
Die LF-Messung wurde mit einem LF-Instrument mit einer 2 Zelle Elektrode durchgeführt, die auf NIS
sekundären Referenzmaterialien, Merck KGaA, 1.01203.0500 Lotnr: HC43479403 kalibriert wurde.

The expiry date refers to the entire product kept sealed in a dry place, protected from light and at a t
De vervaldatum verwijst naar het volledige product verzegeld bewaard op een droge plaats, beschen
temperatuur tussen 15 en 35°C.
Um die Haltbarkeit der Lösung zu gewährleisten, sollte diese ungeöffnet, lichtgeschützt und bei einer
+35°C gelagert werden.

Variety in volumes

The LAQUA pH and conductivity standard solutions are available in 250ml, 500ml, and 1000ml (1L) bottles and the ORP standard solutions are available in 250ml and 500ml bottles. For other standard solutions available, please visit www.horiba-laqua.com

Easy 4-step calibration with no contamination of the solution!

Step 1:

Prepare the electrode and open the standard solution bottle.

Step 2:

Gently squeeze the bottle to fill the calibration chamber with standard solution.

Step 3:

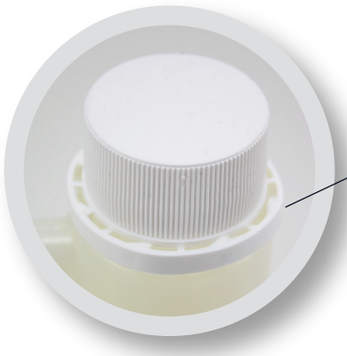
Insert the electrode into the calibration chamber of the standard solution bottle.

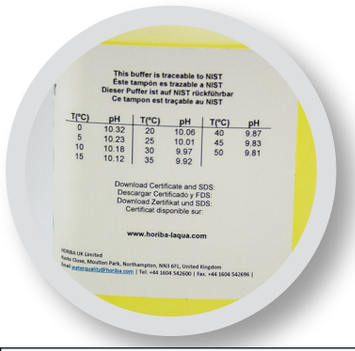
Step 4:

Dispose off the used solution from the calibration chamber.

Sealed bottle cap

To ensure the bottle has not been opened before, the bottle cap is sealed. The seal will be broken once opened.





Temperature table on back side of the bottle

Solution transporter

Once the bottle is squeezed, the solution will go through the side-straw into the calibration chamber

Calibration and dosing compartment

Solution in this compartment does not return into the bottle.

Solution value and accuracy

Actual Value

This is the value of the solution, confirmed by the external laboratory.

HORIBA part number

Expiry date

This is the expiry date of the solution when the bottle is sealed and stored according to the instructions

Lot Number

Enables NIST traceability

Multi language instructions

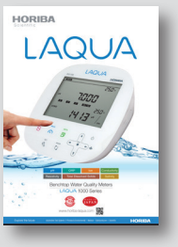
Storage instructions in English, French, German and Spanish.

Product	Part Number	Description	Volume
pH Buffer Solutions			
250-PH4	1300045600	pH 4.01 buffer solution, NIST Traceable, certificate, accuracy ± 0.01 @ 25°C	250 ml
500-PH4	1300045602		500 ml
1000-PH4	1300045599		1000 ml
250-PH7	1300045607	pH 7.00 buffer solution, NIST Traceable, certificate, accuracy ± 0.01 @ 25°C	250 ml
500-PH7	1300045608		500 ml
1000-PH7	1300045606		1000 ml
250-PH10	1300045604	pH 10.01 buffer solution, NIST Traceable, certificate, accuracy ± 0.02 @ 25°C	250 ml
500-PH10	1300045605		500 ml
1000-PH10	1300045603		1000 ml
Conductivity Standard Solutions			
250-EG84	1300045609	84 uS/cm Calibration Solution, certificate, accuracy ± 1%, KCl	250 ml
500-EG84	1300045632		500 ml
1000-EG84	1300045633		1000 ml
250-EG1413	1300045595	1,413 uS/cm Calibration Solution, certificate, accuracy ± 1% =0.01M KCl	250 ml
500-EG1413	1300045638		500 ml
1000-EG1413	1300045591		1000 ml
250-EG1288	1300045590	12.88 mS/cm Calibration Solution, certificate, accuracy ± 1 % =0.1M KCl	250 ml
500-EG1288	1300045639		500 ml
1000-EG1288	1300045588		1000 ml
250-EG1118	1300045630	111.8 mS/cm Calibration Solution, certificate, accuracy ± 1 % = 1M KCl	250 ml
500-EG1118	1300045660		500 ml
1000-EG1118	1300045631		1000 ml
ORP Standard Solutions			
250-ORP200	1300045637	200 mV Redox/ORP solution, 250 ml round brown bottle, accuracy ± 5mV / 25°C	250 ml
250-ORP475	1300045636	475 mV Redox/ORP solution, accuracy ± 5mV / 25°C, 250 ml dosing bottle	250 ml
500-ORP475	1300045635	475 mV Redox/ORP solution, 500 ml dossing bottle, accuracy ± 5mV @ 25°C	500 ml
500-ORP650	1300045634	650 mV Redox/ORP solution, 500 ml dosing bottle, accuracy ± 5mV @ 25°C	500 ml

Visit HORIBA's website!

Water Quality Analyzers www.horiba-laqua.com

With over 60 years of engineering excellence, HORIBA's diverse range of water quality analyzers and electrodes are ideal for everyday laboratory needs through to the most demanding of applications. Visit our website for a wealth of useful information and water quality measurement tips to help you obtain the best results in your work.




Benchtop Meters

Developed using extensive feedback from users, our new LAQUA meters deliver the best solution for water quality analysis. Our LAQUA website features an online 'Selection Guide' to enable you to find the perfect LAQUA meter and electrode for your need.

Handheld Meters

In the lab, in the field or anywhere you need it. LAQUA Handheld meters are designed for use with one hand and with an IP67 waterproof rating and shock-resistant casing. Meters can be used for long periods, even in dark places, making it ideal for field measurements in rivers and lakes.

Electrodes

Various electrodes to match any application. A wide range of products for both benchtop and portable systems are available, including easy and reliable standard models, application-focused models for small samples or large containers, and special electrodes for specific sample characteristics.

Pocket Meters

Analyzing water quality is simplified when using our LAQUAtwin range of meters. Designed to produce accurate and reliable results. Anyone, anywhere, at any time can measure samples easily with a LAQUAtwin meter. See just how good they are at our website.

Application Notes

LAQUAtwin pocket meters offer quick and convenient alternative to analyze important parameters with high accuracy. Several application notes are available at (http://goo.gl/znwE6j) detailing the use of LAQUAtwin and the results achieved for the respective applications. Additional application notes will be added when available.

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