

Buffers and standards for pH, conductivity and oxygen

High quality calibration solutions



Introduction

In our German production facility in Waldheim (Saxonia), we produce high quality buffers and standards for the reliable calibration and adjustment of

- pH sensors
- ORP sensors
- Conductivity sensors
- Oxygen sensors



pH buffer solutions

Product root: CPY20



Your benefits with CPY20 pH buffers



Highly precise pH buffers for all industries

- The high accuracy and reproducibility of the buffers help you to optimize the pH value in your process and **to maximize the yield and quality of your product.**
- CPY20 pH buffers are traceable to standard reference material of NIST (USA) and PTB (Germany) and **fulfil the stringent documentation requirements** of Life Sciences.
- All used preservatives are FDA-listed for **highest product safety** in FDA-supervised processes.
- All temperature curves of CPY20 pH buffers are pre-programmed in all transmitters of the Liquiline series to simplify sensor calibration and adjustment and **reduce your maintenance effort.**
- The easily accessible, identical certificates of all CPY20 pH buffers simplify your audit trails and **improve the reliability of your SOPs.**

Overview: CPY20 pH buffers

Feature \ Buffer	pH 2.00	pH 4.00	pH 7.00	pH 9.00	pH 9.22	pH 10.00	pH 12.00
Bottle size: 18 ml		CPY20-C01D1	CPY20-E01D1				
Bottle size: 250 ml	CPY20-A02D1	CPY20-C02D1	CPY20-E02D1	CPY20-G02D1	CPY20-I02D1	CPY20-K02D1	CPY20-M02D1
Bottle size: 1000 ml	CPY20-A10D1	CPY20-C10D1	CPY20-E10D1	CPY20-G10D1	CPY20-I10D1	CPY20-K10D1	CPY20-M10D1
Bottle size: 5000 ml	CPY20-A50D1	CPY20-C50D1	CPY20-E50D1	CPY20-G50D1	CPY20-I50D1	CPY20-K50D1	CPY20-M50D1
Accuracy	±0.02 pH	±0.02 pH	±0.02 pH	±0.02 pH	±0.02 pH	±0.05 pH	±0.05 pH
BSE/TSE free (certificate avail.)	✓	✓	✓	✓	✓	✓	✓
Traceable to NIST and PTB	✓	✓	✓	✓	✓	✓	✓
All preservatives are FDA-listed	✓	✓	✓	✓	✓	✓	✓
Colored for easy identification		red	green		blue		



The 18 ml bottles contain the same high quality buffers as the other bottles, but are not certified, because they are bottled externally.

ORP buffer solutions

Product root: CPY3



Your benefits with CPY3 ORP buffers



Reliable ORP buffers for all industries

- **Maintain your process safety:** CPY3 buffers allow the reliable, reproducible adjustment of your measuring point to keep the ORP value in the required range.
- **Speed up your maintenance:** the buffers are instantly ready to use – just insert the sensor!
- **Easy handling:** The buffers are color-coded for fast and secure identification.

Overview: CPY3 ORP buffers

Feature	Buffer	220 mV	468 mV
Bottle size: 250 ml		CPY3-4	CPY3-5
Bottle size: 5000 ml		CPY3-A	CPY3-B
Accuracy		±5 mV	±5 mV
Temperature behavior printed on the label of the bottle		✓	✓
Colored for easy identification		yellow	brown

Please note

- There is worldwide no ORP standard reference material available, hence, certification about traceability is not possible.
- A manufacturer declaration with detailed production description is available on request.
- Do not mix the ORP buffer solutions! That would cause a chemical reaction with a deep blue precipitation.

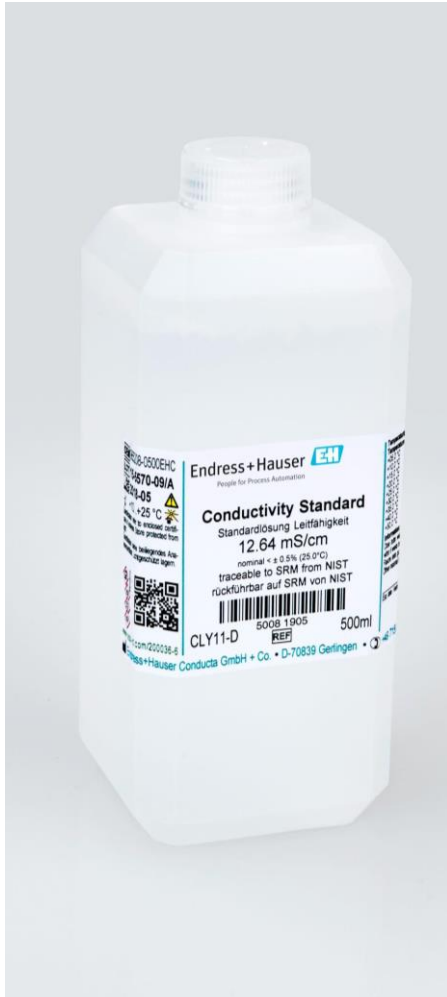
Standards for conductivity, oxygen and ISE sensors

CLY11 calibration standards for conductivity sensors

COY8 zero-point gel for oxygen sensors



Your benefits with CLY11 conductivity standards



Highly precise standards for reliable validation of your conductivity measuring points

- The high accuracy of CLY11 **ensures** the reliable validation of your conductivity sensors and, thus, **the quality and safety of your product.**
- CLY11 solutions come with a quality certificate and are traceable to standard reference material of NIST and **fulfil all documentation requirements.**
- The great band width of available standards with different conductivity values meet the required measurement range of all your sensors in the field and in the lab to **simplify your maintenance.**

Your benefits with COY8 zero-point gel



100% oxygen-free medium for validation, calibration and adjustment of oxygen measuring points

- **Be sure:** exact determination of the true zero point of your oxygen and chlorine measuring loops.
- **Enhance your product quality:** the zero-point calibration improves the accuracy and reliability of your measurements and can increase the quality and yield of your products.
- **Speed up your maintenance:** the gel is instantly ready to use – just insert the sensor!
- **Simplify your maintenance:** one tool for validation, calibration and adjustment of all your sensors in the field and the lab.
- **Improve safety at work:** the ready-made gel comes in safe, easy-to-use bottles removing the need for manual chemical preparation by plant personnel.

Conductivity and oxygen buffers

Parameter	Order code	Value	Bottle sizes in ml
Conductivity	CLY11-A	74.0 μ S	500
Conductivity	CLY11-B	149.6 μ S	500
Conductivity	CLY11-C	1.406 mS	500
Conductivity	CLY11-D	12.64 mS	500
Conductivity	CLY11-E	107.0 mS	500
Oxygen	COY8-AAA01	Zero point	25