

# Your pH Calibration



## Preparation

- Switch on the pH meter** and select the correct buffer group.
- Enter the **correct temperature** for the buffers if no automatic temperature capture is done.
- Pour a sufficient amount of each **buffer solution into a clean beaker**.
- Rinse the electrode** with distilled or deionized water. For refillable electrodes: Ensure that the electrolyte filling hole is open.



## Calibration

- Immerse the electrode into the **first buffer solution** and start the calibration on the pH meter. Start with the lowest pH value.
- Wait until the measurement has **reached the endpoint**.
- Take the electrode out of the buffer solution and **rinse** it.
- Add calibration points by repeating steps a-c with the next buffer solution. Once complete, **end the calibration** on the pH meter.



## Evaluation

- Review the calibration results** on the meter:

Slope \ Offset	± (0 – 20) mV	± (20 – 35) mV	> ± 35 mV
95 – 105%			
90 – 95%			
85 – 90%			
< 85% or > 105%			

- Electrode in good condition
- Electrode requires cleaning soon
- Electrode requires cleaning AND/OR regeneration
- Electrode is worn out and needs to be replaced

- Save the calibration** if it is acceptable. The electrode is now **ready** for your measurements!
- If no acceptable calibration can be achieved, visit our **TroubleShooter** and sensor handling movies on ► [www.electrodes.net](http://www.electrodes.net).