

Technical Data Sheet

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Product Name pH Buffer	Original - Issue date: 08/08/17 - 15/12/17
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Section 1 - Product Description

- pH 4 Buffer:
 - Red liquid prepared using potassium hydrogen phthalate and high purity water
 - Colour dye and preservative added
 - pH = 4.00 - 4.02
- pH 7 Buffer:
 - Green liquid prepared using potassium phosphate monobasic, sodium phosphate dibasic
 - Colour dye and preservative added
 - pH = 6.95 - 7.08
- Accuracy +/- 0.02 @ 20 °C

Section 2 - General Information

- pH Buffer Values vs Temperature (+/- 0.02)

°C	0	5	10	15	20	25	30	35
pH			4.00	4.00	4.00	4.01	4.01	4.02
pH			7.08	7.03	7.00	6.98	6.95	6.95

Section 3 - Applications

- Calibrate pH meter

Section 4 - Instructions for use

- Use full strength, do not dilute
- Use at 20 °C or use temperature correction probe; meter should be at the same temperature as the buffer; cold buffer will give higher readings
- Procedure:
 - Pour enough buffer to cover electrode junction into a beaker or smaller bottle (cover when not in use, discard within 1-2 weeks)
 - Insert pH electrode into buffer; swirl gently or use stirrer on very slow setting
 - Rinse electrode thoroughly and blot excess water between buffers.
- Adjusting calibration:
 - For automatic calibration, follow meter prompts
 - For manual calibration, adjust meter to pH 7 using calibration knob, then adjust to pH 4 with slope

Section 5 - Rates of addition

N/A

Section 6 - Storage & Shelf life

- Store at 5 °C to 30 °C in tightly closed original container
- Shelf life: Unopened bottle, 2 years; opened bottle, 1 year
- Buffer used for calibration: discard after 1-2 weeks
- Do not store in direct sunlight
- Discard if mould forms.

Section 7 - Safety information

- Causes slight eye and skin irritation; low ingestion hazard
- Refer to Safety Data Sheet for more complete safety information

Revision Date: 18/08/2020

Revision Summary: New Supplier, update pH colour, buffer accuracy and value vs temperature

Version: 3

Owner: Oenologist

Disclaimer

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End of Technical Data Sheet