Safety Data Sheet (SDS)

pH Calibration Buffer Solutions

Applicable Buffers: **pH 4.01, pH 6.86, pH 9.18, pH 10.01**

Supplier: **Meascom Pty Ltd**
Website: **www.meascom.com.au**

Revision 1.0

Date: 12 March 2026

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1. Identification

Product Name: pH Calibration Buffer Solutions

Recommended Use:
Calibration of pH meters and laboratory measurement instruments.

Supplier:
Meascom Pty Ltd
www.meascom.com.au

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2. Hazard Identification

These buffer solutions are **not classified as hazardous** according to GHS criteria at the concentrations supplied.

Avoid ingestion and unnecessary contact with eyes or skin.

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3. Composition / Information on Ingredients

These calibration solutions are aqueous buffers designed to maintain a stable pH.

Ph of Buffer	Composition
4.01	Potassium hydrogen phthalate (CAS 877-24-7)
6.86	Phosphate buffer salts (potassium dihydrogen phosphate / disodium hydrogen phosphate)
7.00	Phosphate buffer salts (potassium dihydrogen phosphate / disodium hydrogen phosphate)
9.18	Borate buffer salts
10.01	Borate buffer salts

All buffers are supplied as **dilute aqueous solutions in purified water**.

4. First Aid Measures

Eye Contact
Rinse cautiously with water for several minutes.

Skin Contact
Wash with soap and water.

Ingestion
Rinse mouth with water. Seek medical advice if discomfort occurs.

5. Fire Fighting Measures

Product is **non-flammable**.

Use fire-extinguishing methods suitable for surrounding materials.

6. Accidental Release Measures

Small spills may be diluted with water and wiped up.

Avoid large releases into drains.

7. Handling and Storage

Handle according to **good laboratory practice**.

Store in tightly closed containers at room temperature.

Avoid contamination of the solution.

8. Exposure Controls / Personal Protection

Use standard laboratory protective equipment such as:

- laboratory gloves
- safety glasses

when handling chemicals in laboratory environments.

9. Physical and Chemical Properties

Appearance: Clear aqueous liquid
Odour: None
Solubility: Completely soluble in water

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10. Stability and Reactivity

Stable under normal laboratory storage conditions.

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11. Toxicological Information

Low toxicity expected at the concentrations used for calibration buffers.

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12. Ecological Information

Low environmental impact in typical laboratory quantities.

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13. Disposal Considerations

Dispose of according to local regulations.

Small quantities may normally be diluted with water before disposal.

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14. Transport Information

Not classified as dangerous goods for transport.

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15. Regulatory Information

Product not classified as hazardous under typical chemical safety regulations.

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16. Other Information

Prepared for laboratory safety documentation and compliance in educational and industrial laboratories.