



## Standard pH buffer 4.0 $\pm$ 0.02

### Always remember

1. To tightly close the container after use.
2. Always keep the buffer bottle at 2-8 °C when not in use.
3. Bring the temperature of the bottle to room temperature before use.
4. The intended colour of the pH buffer 4.0 is light yellow. If the colour of the buffer changes to green, blue or any other colour, discard the buffer.
5. If you see any floating matter in the buffer, discard it.
6. Un-opened buffer bottle has at least 2 years of shelf life. Discard the buffer after that period.

### Usage Information:

1. Open the top cap of the bottle by breaking the seal.
2. Before opening the inner cap, wipe the inner cap area with clean cloth to prevent contamination by any foreign material sticking on the pouring surface.
3. The provided buffer is a ready to use solution, take out the solution in a 50 ml beaker.
4. Thoroughly wipe the pH electrode using tissue paper and Dip the electrode in the buffer solution.
5. Go through the calibration process according to your pH meter manual.
6. After the calibration is done, place the solution back in to the buffer bottle.
7. Close the lid tightly and store at 2-8°C until next use.

# Material Safety Data Sheet

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 Telephone number for information and emergency response-  
 +91- 8768935911

## Product Identification

<b>Trade Names and Synonyms:</b>	Lifesonic Standard pH buffer 4.0 ± 0.02
<b>Reagent Application area</b>	Calibration of pH meter
<b>Chemical Name and Family</b>	Sodium citrate, Citric acid, NaOH, Water, HgCl <sub>2</sub>
<b>Formula</b>	Mixture
<b>CAS#</b>	Not Applicable
<b>DOT HazardClass/ID#/Label</b>	Not Applicable
<b>Report Quality</b>	Not Applicable
<b>NPCA-HMIS Hazard Index:</b>	Health: 1 Flammability: 0 Reactivity: 0 Personal Protection: C

## Hazardous Ingredients/ Identity Information

Ingredient	% by weight	Exposure Limits
HgCl <sub>2</sub>	0.001	None established
NaOH	0.001	None established

## Physical/ Chemical Characteristics

<b>Boiling Point</b>	NA	<b>Bulk Density</b>	NA
<b>Vapor Pressure (mmHg)</b>	NA	<b>% Volatiles</b>	0%
<b>Vapor Density (AIR-1)</b>	NA	<b>Evaporati on Rate</b>	NA
<b>Solubility in Water</b>	Soluble at room temp.	<b>pH</b>	4.0
<b>Appearance and Odor</b>	Light Yellow		

## Fire and Explosion Hazard Data

<b>Flash Point</b>	NA
<b>Flammable Limits</b>	NA
<b>Extinguishing Media</b>	NA

## Reactivity Data

<b>Stable</b>	Yes
<b>Conditions to Avoid</b>	NA
<b>Incompatibility (Materials to Avoid)</b>	NA
<b>Hazardous Decomposition or Byproducts</b>	NA
<b>Hazardous Polymerization</b>	Will not Occur

## Health Hazard Data

<b>Inhalation</b>	Vapors may be irritating to nose throat and respiratory tract producing symptoms of nausea in poor ventilated area. Remove subject to fresh air obtain medical Attention
<b>Skin and Eye Contact</b>	Slightly irritating to skin / Wash affected skin with soap / water and obtain medical attention Irritating to eyes / wash eyes with large amount of water for at least 15 minutes and obtain medical attention
<b>Carcinogenicity</b>	NA

## Emergency and First Aid Procedures:

**In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If irritation develops, see a physician. Wash Skin with soap and water promptly to remove dye and prevent possible irritation. If irritation develops, contact a physician.**

**If swallowed in large amounts, include vomiting by giving 2 glasses of water to drink and sticking finger down throat. Call a physician. Never give anything by mouth to an unconscious person. If inhaled, get fresh air, If symptoms of irritation develop, contact a physician.**

## Precautions for safe handling and Use

### Warning Statements

"Since the product is non-hazardous, no uncommon handling procedures are required."

### Precautionary Measures:

Avoid contact with eyes and skin

Wash thoroughly after handling

Keep out of the reach of children.

### Steps to be taken in case Material is Released or Spilled

Prevent product from entering drinking water supply.

Observe above precautions. Sweep into dry containers, recycle or remove for disposal.

### Waste Disposal Method

According to US EPS waste of this material is not defined as hazardous. Dispose of all waste in accordance with applicable regulations. Consult state and local regulations to determine If their hazardous waste definitions differ from the US EPA.

## Control Measures

Respiratory protection (specify type): Not required, dust or fumes will not form.

### Ventilation

<b>Local exhaust</b>	Not generally required
<b>Mechanical</b>	Not generally required
<b>Special</b>	NA
<b>Other</b>	NA

**Protective Gloves:** Recommended always, while using the product.

**Eye protection:** Recommended, wear a while glassed goggle while using the product

**Protective clothing:** Recommended, wear a standard lab apron, While using the product

**Work/Hygienic Practices :** Note precautions above

**Note- Lifesonic is not responsible for unexpected results due to mishandling or wrong storage conditions.**

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