



Apera Instruments, LLC

## Safety Data Sheet

According to the rules for safety data sheet of the Global Harmonized System (GHS)  
Revision Date: 10/01/2021

### SECTION 1: IDENTIFICATION OF THE PRODUCT AND COMPANY

**Product Name:** pH 7.00 buffer Solution  
**Application:** pH Buffer Solution for calibrating pH probes,  $\pm 0.01$  @ 25°C  
**Supplier Name:** Apera Instruments, LLC  
6656 Busch Blvd  
Columbus, Ohio, 43229  
Tel: 1(614) 285-3080  
[www.aperainst.com](http://www.aperainst.com)

### SECTION 2: HAZARD IDENTIFICATION

Non-hazardous product as specified in **Directives 67/548/EEC** and **1999/45/EC**  
Non-hazardous product as specified in **OSHA regulation 29 CFR 1910.1200**

### SECTION 3: COMPOSITION AND COMPONENT INFORMATION

Aqueous buffer solution

### SECTION 4: FIRST AID MEASURES

**If Inhaled:** Remove person to fresh air. Call a physician if breathing becomes difficult.  
**In Case of Skin Contact:** Wash affected area with water and soap  
**In Case of Eye Contact:** Flush out with plenty of water for at least 15 minutes. If pain persists, seek medical attention.  
**In Case of Swallowing:** Wash out mouth with plenty of water, provided the person is conscious. Seek medical attention if feeling unwell.

### SECTION 5: FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media:**  
Water Spray, Foam, Dry Powder, Carbon Dioxide  
**Special Risks:**  
Non-combustible. Development of hazardous combustion gases or vapors possible in the event of fire.  
**Special Protective Equipment:**  
Do not stay in dangerous zone without suitable chemical protection clothing and self-contained breathing apparatus.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

**Personal precautions:** None  
**Environmental Precautions:** None  
**Additional Notes:** None

### SECTION 7: HANDLING AND STORAGE

**Handling:** Avoid contact with eyes  
**Storage:** Keep container closed and protected from direct sunlight. Store at room temperature (15°C to 25°C)



Apera Instruments, LLC

## Safety Data Sheet

According to the rules for safety data sheet of the Global Harmonized System (GHS)  
Revision Date: 10/01/2021

### SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

<b>Engineering:</b>	Maintain general industrial hygiene practice.
<b>Personal Productive Equipment:</b>	As appropriate to quantity handled.
<b>Respiratory Protection:</b>	Required when vapors/aerosols are generated.
<b>Protective Gloves:</b>	Rubber or plastic
<b>Eye Protection:</b>	Goggles or face mask
<b>Industrial Hygiene:</b>	Change contaminated clothing. Wash hands after working with substance.

### SECTION 9: PHYSICAL/CHEMICAL PROPERTIES

Physical State:	Liquid	Appearance:	Light green liquid
Odor:	Odorless	Melting Point:	NA
Boiling point:	>100°C	Solubility:	Soluble
pH@25°C:	7.00	Explosion Limit:	NA
Flash Point:	NA	Thermal Decomp.:	NA

### SECTION 10: STABILITY AND REACTIVITY

<b>Conditions to be avoided:</b>	Heating
<b>Hazardous Decomposition Products:</b>	See section 5.
<b>Hazardous Polymerization:</b>	Will not occur
<b>Substances to be avoided:</b>	The generally known reaction partners of water
<b>Further Information:</b>	Not available

### SECTION 11: TOXICOLOGICAL INFORMATION

#### Product Toxicity

Quantitative data on the toxicity of this product is not available

#### Potential Health Effects:

**Further Data:** Hazardous properties can't be excluded, but are relatively because of the low concentration of the dissolved substances, when the product is handled appropriately. The product should be handled with the usual care when dealing with chemicals.

#### Component Toxicity

**Acute Toxicity:** Not Available      **Chronic Toxicity:** Not Available      **Additional Data:** Not Available

### SECTION 12: ECOLOGICAL INFORMATION

Quantitative data on the ecological effect of the product is not available.

**Further Data:** No ecological problems are to be expected when the product is handled and used with due care and attention.

### SECTION 13: DISPOSAL CONSIDERATIONS

**Waste Disposal:** Can be safely disposed of as ordinary refuse.



Apera Instruments, LLC

## Safety Data Sheet

According to the rules for safety data sheet of the Global Harmonized System (GHS)  
Revision Date: 10/01/2021

---

### **SECTION 14: TRANSPORTATION INFORMATION**

**Land:** Not subject to transport regulations

**Air:** Not subject to transport regulations

**Sea:** Not subject to transport regulations

### **SECTION 15: REGULATORY INFORMATION**

Labeling according to the rules for the safety data sheet of the Global Harmonized System (GHS)

Non-hazardous according to EC Directives 67/548/EEC and 1999/45/EC

### **SECTION 16: OTHER INFORMATION**

**Revision Date:** 2021-10-01

**Supersedes edition of:** MSDS Sheet

**THE INFORMATION CONTAINED HEREIN IS BASED ON THE PRESENT STATE OF OUR  
KNOWLEDGE. IT CHARACTERIZES THE PRODUCT WITH REGARD TO  
THE APPROPRIATE SAFETY PRECAUTIONS. IT DOES NOT REPRESENT A GUARANTEE OF  
THE PROPERTIES OF THE PRODUCT.**



Apera Instruments, LLC

## Safety Data Sheet

According to the rules for safety data sheet of the Global Harmonized System (GHS)  
Revision Date: 10/01/2021

### SECTION 1: IDENTIFICATION OF THE PRODUCT AND COMPANY

**Product Name:** pH 4.00 buffer Solution  
**Application:** pH Buffer Solution for calibrating pH probes,  $\pm 0.01$  @ 25°C  
**Supplier Name:** Apera Instruments, LLC  
6656 Busch Blvd  
Columbus, Ohio, 43229  
Tel: 1(614) 285-3080  
[www.aperainst.com](http://www.aperainst.com)

### SECTION 2: HAZARD IDENTIFICATION

Non-hazardous product as specified in **Directives 67/548/EEC** and **1999/45/EC**  
Non-hazardous product as specified in **OSHA regulation 29 CFR 1910.1200**

### SECTION 3: COMPOSITION AND COMPONENT INFORMATION

Aqueous buffer solution

### SECTION 4: FIRST AID MEASURES

**If Inhaled:** Remove person to fresh air. Call a physician if breathing becomes difficult.  
**In Case of Skin Contact:** Wash affected area with water and soap  
**In Case of Eye Contact:** Flush out with plenty of water for at least 15 minutes. If pain persists, seek medical attention.  
**In Case of Swallowing:** Wash out mouth with plenty of water, provided the person is conscious. Seek medical attention if feeling unwell.

### SECTION 5: FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media:**  
Water Spray, Foam, Dry Powder, Carbon Dioxide  
**Special Risks:**  
Non-combustible. Development of hazardous combustion gases or vapors possible in the event of fire.  
**Special Protective Equipment:**  
Do not stay in dangerous zone without suitable chemical protection clothing and self-contained breathing apparatus.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

**Personal precautions:** None      **Environmental Precautions:** None  
**Additional Notes:** None

### SECTION 7: HANDLING AND STORAGE

**Handling:** Avoid contact with eyes  
**Storage:** Keep container closed and protected from direct sunlight. Store at room temperature (15°C to 25°C)



Apera Instruments, LLC

## Safety Data Sheet

According to the rules for safety data sheet of the Global Harmonized System (GHS)  
Revision Date: 10/01/2021

### SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

<b>Engineering:</b>	Maintain general industrial hygiene practice.
<b>Personal Productive Equipment:</b>	As appropriate to quantity handled.
<b>Respiratory Protection:</b>	Required when vapors/aerosols are generated.
<b>Protective Gloves:</b>	Rubber or plastic
<b>Eye Protection:</b>	Goggles or face mask
<b>Industrial Hygiene:</b>	Change contaminated clothing. Wash hands after working with substance.

### SECTION 9: PHYSICAL/CHEMICAL PROPERTIES

Physical State:	Liquid	Appearance:	Light red liquid
Odor:	Odorless	Melting Point:	NA
Boling point:	>100°C	Solubility:	Soluble
pH@25°C:	4.00	Explosion Limit:	NA
Flash Point:	NA	Thermal Decomp.:	NA

### SECTION 10: STABILITY AND REACTIVITY

<b>Conditions to be avoided:</b>	Heating
<b>Hazardous Decomposition Products:</b>	See section 5.
<b>Hazardous Polymerization:</b>	Will not occur
<b>Substances to be avoided:</b>	The generally known reaction partners of water
<b>Further Information:</b>	Not available

### SECTION 11: TOXICOLOGICAL INFORMATION

#### Product Toxicity

Quantitative data on the toxicity of this product is not available

#### Potential Health Effects:

**Further Data:** Hazardous properties can't be excluded, but are relatively because of the low concentration of the dissolved substances, when the product is handled appropriately. The product should be handled with the usual care when dealing with chemicals.

#### Component Toxicity

**Acute Toxicity:** Not Available      **Chronic Toxicity:** Not Available      **Additional Data:** Not Available

### SECTION 12: ECOLOGICAL INFORMATION

Quantitative data on the ecological effect of the product is not available.

**Further Data:** No ecological problems are to be expected when the product is handled and used with due care and attention.

### SECTION 13: DISPOSAL CONSIDERATIONS

**Waste Disposal:** Can be safely disposed of as ordinary refuse.



Apera Instruments, LLC

## Safety Data Sheet

According to the rules for safety data sheet of the Global Harmonized System (GHS)  
Revision Date: 10/01/2021

---

### **SECTION 14: TRANSPORTATION INFORMATION**

**Land:** Not subject to transport regulations

**Air:** Not subject to transport regulations

**Sea:** Not subject to transport regulations

### **SECTION 15: REGULATORY INFORMATION**

Labeling according to the rules for the safety data sheet of the Global Harmonized System (GHS)

Non-hazardous according to EC Directives 67/548/EEC and 1999/45/EC

### **SECTION 16: OTHER INFORMATION**

**Revision Date:** 2021-10-01

**Supersedes edition of:** MSDS Sheet

**THE INFORMATION CONTAINED HEREIN IS BASED ON THE PRESENT STATE OF OUR  
KNOWLEDGE. IT CHARACTERIZES THE PRODUCT WITH REGARD TO  
THE APPROPRIATE SAFETY PRECAUTIONS. IT DOES NOT REPRESENT A GUARANTEE OF  
THE PROPERTIES OF THE PRODUCT.**



Apera Instruments, LLC

## Safety Data Sheet

According to the rules for safety data sheet of the Global Harmonized System (GHS)  
Revision Date: 10/01/2021

### SECTION 1: IDENTIFICATION OF THE PRODUCT AND COMPANY

**Product Name:** pH 10.01 buffer Solution  
**Application:** pH Buffer Solution for calibrating pH probes,  $\pm 0.01$  @ 25°C  
**Supplier Name:** Apera Instruments, LLC  
6656 Busch Blvd  
Columbus, Ohio, 43229  
Tel: 1(614) 285-3080  
[www.aperainst.com](http://www.aperainst.com)

### SECTION 2: HAZARD IDENTIFICATION

Non-hazardous product as specified in **Directives 67/548/EEC** and **1999/45/EC**  
Non-hazardous product as specified in **OSHA regulation 29 CFR 1910.1200**

### SECTION 3: COMPOSITION AND COMPONENT INFORMATION

Aqueous buffer solution

### SECTION 4: FIRST AID MEASURES

**If Inhaled:** Remove person to fresh air. Call a physician if breathing becomes difficult.  
**In Case of Skin Contact:** Wash affected area with water and soap.  
**In Case of Eye Contact:** Flush out with plenty of water for at least 15 minutes. If pain persists, seek medical attention.  
**In Case of Swallowing:** Wash out mouth with plenty of water, provided the person is conscious. Seek medical attention if feeling unwell.

### SECTION 5: FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media:**  
Water Spray, Foam, Dry Powder, Carbon Dioxide  
**Special Risks:**  
Non-combustible. Development of hazardous combustion gases or vapors possible in the event of fire.  
**Special Protective Equipment:**  
Do not stay in dangerous zone without suitable chemical protection clothing and self-contained breathing apparatus.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

**Personal precautions:** None      **Environmental Precautions:** None  
**Additional Notes:** None

### SECTION 7: HANDLING AND STORAGE

**Handling:** Avoid contact with eyes  
**Storage:** Keep container closed and protected from direct sunlight. Store at room temperature (15°C to 25°C)



Apera Instruments, LLC

## Safety Data Sheet

According to the rules for safety data sheet of the Global Harmonized System (GHS)  
Revision Date: 10/01/2021

### SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

<b>Engineering:</b>	Maintain general industrial hygiene practice.
<b>Personal Productive Equipment:</b>	As appropriate to quantity handled.
<b>Respiratory Protection:</b>	Required when vapors/aerosols are generated.
<b>Protective Gloves:</b>	Rubber or plastic
<b>Eye Protection:</b>	Goggles or face mask
<b>Industrial Hygiene:</b>	Change contaminated clothing. Wash hands after working with substance.

### SECTION 9: PHYSICAL/CHEMICAL PROPERTIES

Physical State:	Liquid	Appearance:	Blue liquid
Odor:	Odorless	Melting Point:	NA
Boiling point:	>100°C	Solubility:	Soluble
pH@25°C:	10.01	Explosion Limit:	NA
Flash Point:	NA	Thermal Decomp.:	NA

### SECTION 10: STABILITY AND REACTIVITY

<b>Conditions to be avoided:</b>	Heating
<b>Hazardous Decomposition Products:</b>	See section 5.
<b>Hazardous Polymerization:</b>	Will not occur
<b>Substances to be avoided:</b>	The generally known reaction partners of water
<b>Further Information:</b>	Not available

### SECTION 11: TOXICOLOGICAL INFORMATION

#### Product Toxicity

Quantitative data on the toxicity of this product is not available

#### Potential Health Effects:

**Further Data:** Hazardous properties can't be excluded, but are relatively because of the low concentration of the dissolved substances, when the product is handled appropriately. The product should be handled with the usual care when dealing with chemicals.

#### Component Toxicity

**Acute Toxicity:** Not Available      **Chronic Toxicity:** Not Available      **Additional Data:** Not Available

### SECTION 12: ECOLOGICAL INFORMATION

Quantitative data on the ecological effect of the product is not available.

**Further Data:** No ecological problems are to be expected when the product is handled and used with due care and attention.

### SECTION 13: DISPOSAL CONSIDERATIONS

**Waste Disposal:** Can be safely disposed of as ordinary refuse.



Apera Instruments, LLC

## Safety Data Sheet

According to the rules for safety data sheet of  
the Global Harmonized System (GHS)  
Revision Date: 10/01/2021

---

### **SECTION 14: TRANSPORTATION INFORMATION**

**Land:** Not subject to transport regulations

**Air:** Not subject to transport regulations

**Sea:** Not subject to transport regulations

### **SECTION 15: REGULATORY INFORMATION**

Labeling according to the rules for the safety data sheet of the Global Harmonized System (GHS)

Non-hazardous according to EC Directives 67/548/EEC and 1999/45/EC

### **SECTION 16: OTHER INFORMATION**

**Revision Date:** 2021-10-01

**Supersedes edition of:** MSDS Sheet

**THE INFORMATION CONTAINED HEREIN IS BASED ON THE PRESENT STATE OF OUR  
KNOWLEDGE. IT CHARACTERIZES THE PRODUCT WITH REGARD TO  
THE APPROPRIATE SAFETY PRECAUTIONS. IT DOES NOT REPRESENT A GUARANTEE OF  
THE PROPERTIES OF THE PRODUCT.**