

# Certipur<sup>®</sup> Ready-to-Use pH Calibration Buffer Solutions



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### YOUR TRUSTED PARTNER IN ANALYTICAL CHEMISTRY

Buffer solutions are essential for maintaining proper calibration of pH instruments. Organizations such as the United States Pharmacopeia (USP <791>) and the European Pharmacopoeia (Ph. Eur. 2.2.3) describe preparation of buffer solutions from solid starting material, but this process can be time consuming and error-prone.

Accuracy of your pH measurements are directly affected by the buffer reference materials used in calibration. It is important to consider the both quality of the raw materials used, as well as the accuracy of the preparation. With ready to use ISO Guide 34 compliant Certipur® certified reference buffer solutions from Supelco<sup>®</sup> analytical products, you benefit from maximum accuracy, reliability and convenience, ensuring consistent results and avoiding costly repeat analyses.

Available in PE bottles, convenient single-use sachets, or award-winning Titripac<sup>®</sup> formats, there is a pH buffer solution format to suit your unique needs.

#### Our high standards match yours

#### pH buffers that measure up accurately. Every time.

We use 5-point calibration for accurate certification of each reference buffer solution batch.

By using a 5-point calibration, rather than more traditional 2, or 3-point methods, laboratories are assured that their pH buffers are as accurate as possible. Every time.



#### Secure: Accredite

Accredited

as CRM oducer and

Calibration

Accredited to ISO Guide 34 and ISO/IEC 17025

**Trusted:** Traceable to the SI units via NIST and PTB

**Ready for Audits:** Detailed CoA for every product

**Always Fresh:** Available single-use sachets

**Long-Lasting:** Up to 3-year shelf life

#### **Ready-to-use pH Buffer Solutions**

With certified pH values at both 20 °C and 25 °C, Certipur<sup>®</sup> pH buffer solutions from Supelco<sup>®</sup> analytical products meet your calibration needs.

Compliance, always ensured



#### pH Buffer Solutions [20 °C]

ISO Guide 34 Certified Reference Materials

pH Value	Composition	Content	Format	Cat. No.
1.00	Glycine, sodium chloride, hydrochloric acid	1 L	PE Bottle	1.09432.1000
2.00	Citric acid, sodium hydroxide, hydrochloric acid	1 L 4 L 10 L	PE Bottle Titripac® Titripac®	1.09433.1000 1.09433.4000 1.09433.9010
3.00	Citric acid, sodium hydroxide, hydrochloric acid	1 L	PE Bottle	1.09434.1000
4.00	Citric acid, sodium hydroxide, hydrochloric acid	1 L 4 L 10 L	PE Bottle Titripac® Titripac®	1.09435.1000 1.09435.4000 1.09435.9010
4.66	Acetic acid, sodium acetate	1 L	PE Bottle	1.07827.1000
5.00	Citric acid, Sodium hydroxide	1 L	PE Bottle	1.09436.1000
6.00	Citric acid, Sodium hydroxide	1 L 4 L	PE Bottle Titripac®	1.09437.1000 1.09437.4000
6.88	Di-Sodium hydrogen phosphate, Potassium dihydrogen phosphate	1 L	PE Bottle	1.07294.1000
7.00	Di-Sodium hydrogen phosphate, Potassium dihydrogen phosphate	1 L 4 L 10 L	PE Bottle Titripac® Titripac®	1.09439.1000 1.09439.4000 1.09439.9010
8.00	Boric acid, Sodium hydroxide, Hydrogen chloride	1 L 4 L	PE Bottle Titripac®	1.09460.1000 1.09460.4000
9.00	Boric acid, Sodium hydroxide, Potassium chloride	1 L 4 L 10 L	PE Bottle Titripac® Titripac®	1.09461.1000 1.09461.4000 1.09461.9010
9.22	Di-Sodium tetraborate	1 L	PE Bottle	1.01645.1000
10.00	Boric acid, Sodium hydroxide, Potassium chloride	1 L 4 L 10 L	PE Bottle Titripac® Titripac®	1.09438.1000 1.09438.4000 1.09438.9010
11.00	Boric acid, Sodium hydroxide, Potassium chloride	1 L	PE Bottle	1.09462.1000

\*pH 4.00 (red), 7.00 (green), 9.00 (blue) and 10.00 (yellow) are also available in colored solutions for ease-of-use

#### Did you know?

You can save time and reduce environmental impact with our innovative TitriPac® format, available for buffer solutions in 4 L and 10 L sizes

- Easy to use with an integrated tap
- Reliable to the last drop: hermetically sealed packaging
- Minimize packaging waste



#### **Titripac® Environmental Benefits<sup>1</sup>**



Reduction in greenhouse gas emissions



solid waste

mass at your

facility

Life Cycle

Reduction in total life cycle greenhouse emissions





Waste of 20  $\times$  1 L solution in PE bottles

Waste of 2  $\times$  10 L solution in Titripac® packaging

<sup>1</sup>Compared to 1 L PE Bottles

#### pH Buffer Solutions [25 °C]

#### ISO Guide 34 Certified Reference Materials

pH Value	Composition	Content	Format	Cat. No.
1.00	Glycine, sodium chloride, hydrochloric acid	500 mL 4 L	PE bottle Titripac®	1.09441.0500 1.09441.4000
2.00	Citric acid, sodium hydroxide, hydrochloric acid	500 mL 4 L	PE bottle Titripac®	1.09442.0500 1.09442.4000
3.00	Citric acid, sodium hydroxide, hydrochloric acid	500 mL 4 L	PE bottle Titripac®	1.09444.0500 1.09444.4000
4.00*	Citric acid, sodium hydroxide, hydrochloric acid	500 mL 4 L	PE bottle Titripac <sup>®</sup>	1.09445.0500 1.09445.4000
4.01	Potassium hydrogen phthalate	500 mL 1 L 4 L	PE Bottle PE bottle Titripac®	1.09406.0500 1.09406.1000 1.09406.4000
5.00	Citric acid, sodium hydroxide	500 mL 4 L	PE bottle Titripac®	1.09446.0500 1.09446.4000
6.00	Citric acid, sodium hydroxide	500 mL 4 L	PE bottle Titripac®	1.99036.0500 1.99036.4000
7.00*	Di-Sodium hydrogen phosphate, potassium dihydrogen phosphate	500 mL 1 L 4 L	PE Bottle PE bottle Titripac®	1.09407.0500 1.09407.1000 1.09407.4000
8.00	Boric acid, sodium hydroxide, hydrogen chloride	500 mL 4 L	PE bottle Titripac®	1.99038.0500 1.99038.4000
9.00	Boric acid, sodium hydroxide, potassium chloride	500 mL 1 L 4 L	PE Bottle PE bottle Titripac®	1.09408.0500 1.09408.1000 1.09408.4000
10.00*	Boric acid, sodium hydroxide, potassium chloride	500 mL 1 L 4 L	PE Bottle PE bottle Titripac®	1.09409.0500 1.09409.1000 1.09409.4000
11.00	Boric acid, sodium hydroxide, potassium chloride	500 mL 4 L	PE bottle Titripac <sup>®</sup>	1.99041.0500 1.99041.4000
12.00	Di-Sodium hydrogen phosphate, sodium hydroxide	4 L	Titripac®	1.99022.4000

\*pH 4.00 (red), 7.00 (yellow), and 10.00 (blue) are also available in colored solutions for ease-of-use

#### The ultimate in convenience

Simply tear open and place your probe directly into the sachet using the included stand.

- Decreased risk of contamination
- Accurate pH value
- Packed as 30 x 30 mL sachets with convenient stand
- Always fresh and ready-to-use
- Use only what you need, reducing waste







## **Certipur® buffer solutions in sachets [25 °C]** ISO Guide 34 Certified Reference Materials

pH Value	Composition	Cat. No.
2.00	Citric acid, sodium hydroxide, hydrochloric acid	1.99012.0001
4.00	Citric acid, sodium hydroxide, hydrochloric acid	1.99064.0001
4.01	Potassium hydrogen phthalate	1.99001.0001
6.00	Citric acid, sodium hydroxide	1.99016.0001
7.00	Potassium dihydrogen phosphate, di-sodium hydrogen phosphate	1.99002.0001
9.00	Boric acid, potassium chloride, sodium hydroxide solution	1.99003.0001
9.18	di-Sodium tetraborate	1.99019.0001
10.00	Boric acid, potassium chloride, sodium hydroxide	1.99004.0001
11.00	Boric acid, sodium hydroxide, potassium chloride	1.99021.0001
12.00	di-Sodium hydrogen phosphate, sodium hydroxide	1.99022.0001
Buffer Solution Kits		
4.01 7.00 9.00	Certipur <sup>®</sup> buffer solution Set I	1.99005.0001
4.01 7.00 10.00	Certipur® Buffer solution Set II	1.99006.0001

#### **Certified Reference Buffers**

Secondary standards directly traceable and compared to primary reference materials from a National Measurement Institute.

pH Value [25 °C]	Composition	Pack size	Cat. No.
Solutions			
1.68	Potassium tetroxalate dihydrate	5 x 100 mL	1.07204.0105
4	Potassium hydrogen phthalate	5 x 100 mL	1.07200.0105
6.86	Potassium dihydrogen phosphate, di-sodium hydrogen phosphate	5 x 100 mL	1.07202.0105
7.41	Potassium dihydrogen phosphate, di-sodium hydrogen phosphate	5 x 100 mL	1.07205.0105
9.18	Di-Sodium tetraborate decahydrate	5 x 100 mL	1.07203.0105
Neats			
1.68	Potassium tetroxalate dihydrate	25 g	1.01961.0025
3.64	Potassium hydrogen tartrate	25 g	1.01963.0025
4.01	Potassium hydrogen phthalate	25 g	1.01965.0025
6.86/7.42	Potassium hydrogen phosphate, di-sodium hydrogen phosphate	2 x 25 g	1.01960.0001
9.18	Di-Sodium tetraborate decahydrate	25 g	1019640025







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