

## Technical Calibration Solutions



### Precise Measurements

To obtain precise and valid pH measurements, the pH meter and pH electrode must be calibrated at a minimum of 2 different points, close to the value of the sample to be tested.

HANNA instruments® offers a complete range of pH buffer solutions, that will satisfy all your calibration needs and which have now been extended with two additional lines: the HI 50xx series of technical buffer solutions (shown in these pages,) and the solutions with millesimal resolution, HI 60xx.

### Technical Solutions ( $\pm 0.01$ pH) for Each Point of the pH Scale.

A complete scale of buffer solutions offers a higher degree of accuracy for pH measurements in specific areas of application, such as in monitoring the pH of must and wine.

This new line includes 13 solutions starting from a value of pH 1.00 up to pH 13.00 with an accuracy of  $\pm 0.01$  pH, thus covering every point of the pH scale.

These solutions have been prepared for all those applications that require very accurate pH monitoring, and are also available with certificate of analysis prepared by comparison against the NIST standards.

Also available are solution bottles, that are colored according to a given standard calibration value: HI 5004-R (Red), HI 5007-G (Green) and HI 5010-V (Violet)



### Technical Buffer Solutions ( $\pm 0.01$ pH) - Bottle

pH Value @25°C	Code	Package	pH Value @25°C	Code	Package
1.00	HI 5001	1 x 500 mL	7.01	HI 5007-12	12 x 500 mL
1.68	HI 5016	1 x 500 mL	7.01	HI 5007-36	36 x 500 mL
2.00	HI 5002	1 x 500 mL	7.01	HI 5007-G	1 x 500 mL
2.00	HI 5002-01	1 x 1 L	7.01	HI 5007-G08	1x1 Gallon (3.78 L)
2.00	HI 5002-36	36 x 500 mL	7.01	HI 5007-G36	36 x 500 mL
3.00	HI 5003	1 x 1 L	7.41	HI 5074	1 x 500 mL
3.00	HI 5003-36	36 x 500 mL	7.41	HI 5074-01	1 x 1 L
3.79	HI 5037	1 x 500 mL	8.00	HI 5008	1 x 500 mL
4.01	HI 5004	1 x 500 mL	8.00	HI 5008-01	1 x 1 L
4.01	HI 5004-01	1 x 1 L	8.00	HI 5008-36	36 x 500 mL
4.01	HI 5004-12	12 x 500 mL	9.00	HI 5009	1 x 500 mL
4.01	HI 5004-36	36 x 500 mL	9.00	HI 5009-01	1 x 1 L
4.01	HI 5004-R	1 x 500 mL	9.00	HI 5009-36	36 x 500 mL
4.01	HI 5004-R08	1x1 Gallon (3.78 L)	9.18	HI 5091	1 x 500 mL
4.01	HI 5004-R36	36 x 500 mL	10.01	HI 5010	1 x 500 mL
4.63	HI 5046	1 x 500 mL	10.01	HI 5010-01	1 x 1 L
4.63	HI 5046-01	1 x 1 L	10.01	HI 5010-12	12 x 500 mL
5.00	HI 5005	1 x 500 mL	10.01	HI 5010-36	36 x 500 mL
5.00	HI 5005-01	1 x 1 L	10.01	HI 5010-V	1 x 500 mL
6.00	HI 5006	1 x 500 mL	10.01	HI 5010-V08	1x1 Gallon (3.78 L)
6.00	HI 5006-01	1 x 1 L	10.01	HI 5010-V36	36 x 500 mL
6.00	HI 5006-36	36 x 500 mL	11.00	HI 5011	1 x 500 mL
6.86	HI 5068	1 x 500 mL	12.00	HI 5012	1 x 500 mL
7.01	HI 5007	1 x 500 mL	12.45	HI 5124	1 x 500 mL
7.01	HI 5007-01	1 x 1 L	13.00	HI 5013	1 x 500 mL

### Solution Combination Kits - Bottle

Code	Solutions (pH Value @25°C)	Package
HI 54710	pH 4.01, pH 7.01, pH 10.01	3 x 500 mL bottle
HI 54710-10	pH 4.01, pH 7.01, pH 10.01, HI 70300	4 x 500 mL bottle
HI 54710-11	pH 4.01, pH 7.01, pH 10.01, HI 70300, HI 7061	5 x 500 mL bottle
HI 54710-12	pH 4.01, pH 7.01, pH 10.01, HI 70300, HI 7061, HI 7071	6 x 500 mL bottle
HI 54710-13	pH 4.01, pH 7.01, pH 10.01, HI 70300, HI 7061, HI 7072	6 x 500 mL bottle



In order to determine the quality of wine, an accurate check of the pH is necessary.



## Technical Calibration Solutions

For the highest level of reliability of field instrumentation, technical solutions are also provided in convenient single-dose sachets.

Calibration solution sachets are sold in boxes containing 10 or 25 pieces, so that there is always a small amount set aside for daily use.



### Technical Buffer Solutions ( $\pm 0.01$ pH) - Sachet

pH Value @25°C	Code	Package	pH Value @25°C	Code	Package
1.00	HI 50001-01	10 x 20 mL	7.01	HI 50007-01	10 x 20 mL
1.00	HI 50001-02	25 x 20 mL	7.01	HI 50007-02	25 x 20 mL
1.68	HI 50016-01	10 x 20 mL	7.41	HI 50074-01	10 x 20 mL
1.68	HI 50016-02	25 x 20 mL	7.41	HI 50074-02	25 x 20 mL
2.00	HI 50002-01	10 x 20 mL	8.00	HI 50008-01	10 x 20 mL
2.00	HI 50002-02	25 x 20 mL	8.00	HI 50008-02	25 x 20 mL
3.00	HI 50003-01	10 x 20 mL	9.00	HI 50009-01	10 x 20 mL
3.00	HI 50003-02	25 x 20 mL	9.00	HI 50009-02	25 x 20 mL
3.79	HI 50037-01	10 x 20 mL	9.18	HI 50091-01	10 x 20 mL
3.79	HI 50037-02	25 x 20 mL	9.18	HI 50091-02	25 x 20 mL
4.01	HI 50004-01	10 x 20 mL	10.01	HI 50010-01	10 x 20 mL
4.01	HI 50004-02	25 x 20 mL	10.01	HI 50010-02	25 x 20 mL
4.63	HI 50046-01	10 x 20 mL	11.00	HI 50011-01	10 x 20 mL
4.63	HI 50046-02	25 x 20 mL	11.00	HI 50011-02	25 x 20 mL
5.00	HI 50005-01	10 x 20 mL	12.00	HI 50012-01	10 x 20 mL
5.00	HI 50005-02	25 x 20 mL	12.00	HI 50012-02	25 x 20 mL
6.00	HI 50006-01	10 x 20 mL	12.45	HI 50124-01	10 x 20 mL
6.00	HI 50006-02	25 x 20 mL	12.45	HI 50124-02	25 x 20 mL
6.86	HI 50068-01	10 x 20 mL	13.00	HI 50013-01	10 x 20 mL
6.86	HI 50068-02	25 x 20 mL	13.00	HI 50013-02	25 x 20 mL