

pH 6.86 Buffer Solution

The use of pH 6.86 buffer to calibrate the offset of pH meters is a quite recent practice. This is due to the fact that even though this buffer offers higher accuracy, it has been known for not being very stable. In addition, the introduction of microprocessors in pH meters, that perform automatic buffer recognition, has eliminated calibration trimmers and screwdrivers. Although, in many cases, this first generation of microprocessor was not able to distinguish between pH 6.86 and pH 7.01. As a consequence, the first was abandoned in favor of the second.

Modern pH meters from HANNA instruments® have brought back this calibration value. Our latest portable and bench microprocessor instruments, may now be calibrated both with pH 6.86 and pH 7.01.

The HANNA instruments® range of pH 6.86 buffer solutions has been expanded and stability has been improved to match the stability of pH 7.



HI 6068 Millesimal Standard Solution

- 500 mL and 1 L Bottle
- Standard Solution at pH 6.862



Traceability with Reference to NIST Standards

The buffer solution at pH 6.86 is standardized with a pH meter calibrated with NIST buffer solutions. The buffer is certified according to NIST standards.

Solution Bottle

Code	pH Value @25°C	Size	Package	FDA Bottle	Certificate of Analysis
HI 5068	6.86	500 mL	1 bottle		•
HI 6068	6.862	500 mL	1 bottle		•
HI 6068-01	6.862	1 L	1 bottle		•
HI 7006/1G	6.86	1 Gallon (3.78 L)	1 bottle		
HI 7006/1L	6.86	1 L	1 bottle		
HI 7006L	6.86	500 mL	1 bottle		
HI 7006L/C	6.86	500 mL	1 bottle		•
HI 7006M	6.86	230 mL	1 bottle		
HI 8006/1L	6.86	1 L	1 bottle	•	
HI 8006L	6.86	500 mL	1 bottle	•	
HI 8006L/C	6.86	500 mL	1 bottle	•	•

Solution Sachet

Code	pH Value @25°C	Size	Package	Certificate of Analysis
HI 50068-01	6.86	20 mL	10 sachets	•
HI 50068-02	6.86	20 mL	25 sachets	•
HI 60068-01	6.862	20 mL	10 sachets	•
HI 60068-02	6.862	20 mL	25 sachets	•
HI 70006C	6.86	20 mL	25 sachets	•
HI 70006P	6.86	20 mL	25 sachets	