



Thermo Scientific Orion pH Buffers and Solutions

We have the pH buffers, storage solutions, cleaning solutions, kits and pH electrode filling solutions for every application. All Orion pH buffers and standards are traceable to NIST reference materials. A wide variety of sizes are available from 15 mL single use pouches to large volume 19 L cubitainers.



pH Buffers in 475 mL (1 Pint) Bottles

Great for standard laboratory applications and everyday use

| Cat. No. | Description |
|---------------|--|
| 810199 | ROSS All-in-One pH Buffer Kit 475 mL each of pH 4.01, 7.00 and 10.01 buffers; 475 mL of ROSS pH electrode storage solution (810001); 60 mL of pH electrode cleaning solution; and 12 mm diameter electrode storage bottle |
| 910199 | Standard All-in-One pH Buffer Kit 475 mL each of pH 4.01, 7.00 and 10.01 buffers; 475 mL of pH electrode storage solution (910001); and 12 mm diameter electrode storage bottle |
| 910168 | pH 1.68 buffer, NIST traceable, 475 mL |
| 910104 | pH 4.01 buffer, color coded red, NIST traceable, 475 mL |
| 910105 | pH 5.00 buffer, color coded orange, NIST traceable, 475 mL |
| 910686 | pH 6.86 buffer, DIN standard, NIST traceable, 475 mL |
| 910107 | pH 7.00 buffer, color coded yellow, NIST traceable, 475 mL |
| 910918 | pH 9.18 buffer, DIN standard, NIST traceable, 475 mL |
| 910110 | pH 10.01 buffer, color coded blue, NIST traceable, 475 mL |
| 910112 | pH 12.46 buffer, NIST traceable, 475 mL |



pH Buffers in 5 x 60 mL (5 x 2 Oz) Bottles

Perfect for field measurements, occasional pH analysis or limited lab space

| Cat. No. | Description |
|------------------|---|
| 916099 | All-in-One 60 mL pH Buffer Kit 60 mL each of pH 4.01, 7.00 and 10.01 buffers; 60 mL of pH electrode storage solution (910060); and 60 mL of pH electrode cleaning solution (900024) |
| 9116860 | pH 1.68 buffer, NIST traceable, 5 x 60 mL |
| 910460 | pH 4.01 buffer, color coded red, NIST traceable, 5 x 60 mL |
| 916860 | pH 6.86 buffer, DIN standard, NIST traceable, 5 x 60 mL |
| 910760 | pH 7.00 buffer, color coded yellow, NIST traceable, 5 x 60 mL |
| 9191860 | pH 9.18 buffer, DIN Standard, NIST traceable, 5 x 60 mL |
| 911060 | pH 10.01 buffer, color coded blue, NIST traceable, 5 x 60 mL |
| 911260-WA | pH 12.46 buffer, NIST traceable, 5 x 60 mL |



pH Buffers and Rinse Solution in Individual Use Pouches
Ideal for field measurements, pharma applications or single use buffer requirements

| Cat. No. | Description |
|-----------------------------------|---|
| 910410-WA 910425 | pH 4.01 Buffer, Color Coded Red, NIST Traceable Individual use pouches, 10 x 15 mL Individual use pouches, 25 x 15 mL |
| 910710 910725 | pH 7.00 Buffer, Color Coded Yellow, NIST Traceable Individual use pouches, 10 x 15 mL Individual use pouches, 25 x 15 mL |
| 911010 911025-WA | pH 10.01 Buffer, Color Coded Blue, NIST Traceable Individual use pouches, 10 x 15 mL Individual use pouches, 25 x 15 mL |
| 911110 911125 | pH Electrode Rinse Solution Individual use pouches, 10 x 15 mL Individual use pouches, 25 x 15 mL |



pH Buffers in 19 L (5 Gallon) Cubitainers with Easy-Pour Spout

Excellent for large laboratories and multiple users

| Cat. No. | Description |
|---------------|--|
| 9104CB | pH 4.01 buffer, color coded red, NIST traceable, 19 L (5 gallon) cubitainer |
| 9107CB | pH 7.00 buffer, color coded yellow, NIST traceable, 19 L (5 gallon) cubitainer |
| 9110CB | pH 10.01 buffer, color coded blue, NIST traceable, 19 L (5 gallon) cubitainer |



pH Electrode Storage Solution and ROSS pH Electrode Storage Solution

Get the fastest, most reliable performance from your pH electrode

| Cat. No. | Description |
|----------|--|
| 810199 | ROSS All-in-One pH Buffer Kit 475 mL each of pH 4.01, 7.00 and 10.01 buffers; 475 mL of ROSS pH electrode storage solution (810001); 60 mL of pH electrode cleaning solution; and 12 mm diameter electrode storage bottle |
| 910199 | Standard All-in-One pH Buffer Kit 475 mL each of pH 4.01, 7.00 and 10.01 buffers; 475 mL of pH electrode storage solution (910001); and 12 mm diameter electrode storage bottle |
| 916099 | All-in-One 60 mL pH Buffer Kit 60 mL each of pH 4.01, 7.00 and 10.01 buffers; 60 mL of pH electrode storage solution (910060); and 60 mL of pH electrode cleaning solution (900024) |
| 810001 | ROSS pH Electrode Storage Solution 475 mL |
| 910001 | pH Electrode Storage Solution 475 mL |
| 910060 | 5 x 60 mL |
| 9100CB | 19 L (5 gallon) cubitainer |



pH Electrode Cleaning Solutions

Specially formulated cleaning solutions for slow, dirty or clogged pH electrodes

| Cat. No. | Description |
|-----------|---|
| 900020 | pH Electrode Cleaning Kit – 30 mL of cleaning solution A and C, 60 mL of cleaning solution B and D, beaker and pipet |
| 900021-WA | pH electrode cleaning solution A for protein removal, 4 x 30 mL, beaker and pipet |
| 900022-WA | pH electrode cleaning solution B for bacteria removal, 4 x 60 mL, beaker and pipet |
| 900023 | pH electrode cleaning solution C for general cleaning, 4 x 30 mL, beaker and pipet |
| 900024 | pH electrode cleaning solution D for general cleaning and oil and grease removal, 4 x 60 mL, beaker and pipet |
| 510015 | Stain lifter solution for no cal fill solution and ORP standard stain removal, 60 mL |



pH Specialty Solutions and ORP Standards

| Cat. No. | Description |
|-----------|--|
| 700001 | Pure Water Low Ionic Strength pH Test Kit – 4 x 475 mL of pH 6.97 buffer, 2 x 475 mL of pH 4.10 buffer, 2 x 60 mL of pHISA adjuster and app note |
| 700003 | Pure water pHISA low ionic strength adjuster, 5 x 60 mL |
| 700402 | Pure water pH 4.10 buffer B for low ionic strength pH samples, 4 x 475 mL |
| 700702 | Pure water pH 6.97 buffer A for low ionic strength pH samples, 4 x 475 mL |
| 700902 | Pure water pH 9.15 buffer C for low ionic strength pH samples, 4 x 475 mL |
| 700010 | Total Alkalinity Test Kit – 475 mL of alkalinity reagent (700011-WA), 475 mL of alkalinity standard (700012), conversion chart and app note |
| 700011-WA | Total alkalinity reagent refill, 4 x 475 mL |
| 700012 | Total alkalinity standard/control refill, 475 mL |
| 967901 | ORP Standard , +420 mV vs. standard hydrogen electrode (EH), +220 mV vs. Ag/AgCl electrode using 900011 fill solution, 475 mL |
| 967961 | ORP Standard , +420 mV vs. standard hydrogen electrode (EH), +220 mV vs. Ag/AgCl electrode using 900011 fill solution, 5 x 60 mL |



Pure Water® pH Test Kit: Get fast, accurate pH results in high purity waters such as well, rain, distilled/deionized, boiler feed and process. The kit includes special low ionic strength buffers and pHISA additive that increases sample ionic strength without changing the pH. For best results, a high quality pH electrode such as the ROSS Ultra 8102BNUWP is recommended (purchase separately).



Total Alkalinity Test Kit: A two-step direct measurement of total alkalinity and pH. Calibrate for pH, add alkalinity reagent and read total alkalinity of 0-200 ppm CaCO₃ from the included pH conversion chart.



Thermo Scientific Orion Electrode Fill Solutions and Accessories



pH Electrode and Reference Electrode Fill Solutions

Ensure the proper performance and function from your electrode by using our specially formulated fill solutions

| Cat. No. | Description | Use With Electrodes |
|-----------|---|---|
| 810007 | ROSS electrode fill solution, 3 M KCl, 5 x 60 mL | ROSS Ultra, ROSS and Micro ROSS Electrodes 800300, 800500U, 8102BN, 8102BNUWP, 8103BN, 8103BNUWP, 8104BN, 8104BNUWP, 8115BN, 8115BNUWP, 8135BN, 8135BNUWP, 815600, 8156BNUWP, 8157BNU, 8157BNUMD, 8157UWMD, 8163BNWP, 8165BNWP, 8172BNWP, 8175BNWP, 8220BNWP, 8302BNUMD |
| 900011 | Silver Chloride pH electrode fill solution, 4 M KCl with Ag/AgCl, 5 x 60 mL | Standard, Specialty, Single Junction Refillable Green, Micro and ORP Electrodes 9102BNWP, 9103BNWP, 9104BNWP, 9156BNWP, 9157BN, 9157BNMD, 9162BNWP, 9165BNWP, 9172BNWP, 9180BN, 9180BNMD, 9678BNWP, 9778BNWP, 9780SC, 9810BN, 9826BN, 9863BN, GS9156BNWP |
| 900004 | Silver Chloride pH electrode (low level) fill solution, 2 M KCl with Ag/AgCl, 5 x 60 mL | Standard, Specialty, Single Junction Refillable Green, Micro and ORP Electrodes (low ionic strength samples) 9102BNWP, 9103BNWP, 9104BNWP, 9156BNWP, 9157BN, 9157BNMD, 9162BNWP, 9165BNWP, 9172BNWP, 9180BN, 9180BNMD, 9678BNWP, 9778BNWP, 9780SC, 9810BN, 9826BN, 9863BN, GS9156BNWP |
| 910008-WA | Double junction pH electrode fill solution, 3 M KCl, 5 x 60 mL | Double Junction, Double Junction Refillable Green and KNPHE Electrodes 9102DJWP, 9110DJWP, 9120APWP, GD9156BNWP |
| 510011 | No Cal pH electrode fill solution, 5 x 60 mL | No Cal Electrodes 5107BNMD, 5107NC |
| 610001 | pHuture pH electrode fill solution, 5 x 60 mL | pHuture Electrodes |
| 900001 | Single junction reference electrode fill solution, equitransferent solution with Ag/AgCl, 5 x 60 mL | Single Junction Reference Electrode 900100 |
| 900002 | Double junction reference electrode inner fill solution, equitransferent solution with Ag/AgCl, 5 x 60 mL | Double Junction Reference Electrode 900200 |
| 900003 | Double junction reference electrode outer fill solution, 10 % KNO ₃ , 5 x 60 mL | Double Junction Reference Electrode 900200 |

pH Accessories

| Cat. No. | Description |
|----------|---|
| 020017 | No Cal electrode storage chamber |
| 810017 | Storage sleeve and base for 12 mm x 120 mm electrodes |
| 910003 | 12 mm electrode storage bottles, 3 pack |
| 910004 | 8 mm electrode storage bottles, 3 pack |
| 910005 | Bulb guard for glass pH electrode, 5 pack |
| 910006 | 6 mm electrode storage bottles, 3 pack |



Signifies a hazardous solution.

See terms and conditions for important shipping information at www.thermoscientific.com/water.

Visit the WAI Online Library on www.thermoscientific.com/water for the most up-to-date MSDS and Certificate of Analysis files for Orion solutions.

