

# Taylor's Standard Solutions

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## INTRODUCTION

In addition to manufacturing water test kits for field use, **Taylor makes reagents for instrument calibration and laboratory analysis**, including pH buffers, conductivity standards, and buret titration reagents. Buying prepared reagents from Taylor can:

- save you from dealing with many hazardous-material storage and disposal issues,
- lessen the potential expense for wasted raw materials,
- save you preparation time, and
- increase product consistency.

Some customers may find buying standard solutions from us is a quick way to **move to the next level of our discount schedule**.

Taylor's standard solutions are manufactured under strict laboratory controls with high-quality ingredients so you can feel confident about the accuracy of your test results. **All Taylor reagent labeling and Safety Data Sheets comply with OSHA and "Right-to-Know" regulations.**

Generally, these solutions are packaged in bottles with a black threaded cap. Exceptions include those items marked as DB (dropper bottle) or DT (dispenser tip). If you are meticulous about preventing contamination, you can repour pints, quarts, or gallons into kit-size dropper bottles.

## NOTE ABOUT pH BUFFERS

**Color-coded** for instant, error-free recognition, Taylor's pH buffer solutions for pH 4.0 (pink), pH 7.0 (yellow), and pH 10.0 (blue), are prepared with high-purity water and American Chemical Society (ACS) chemicals using proven formulations. They are standardized at 25°C against National Institute of Standards and Technology (NIST) standard reference materials to  $\pm 0.01$  pH units.

Besides the color-coded buffer solutions at pH 4.0, 7.0, and 10.0 that are commonly used to calibrate pH meters, Taylor offers laboratory analysts reference buffers **without dyes** ranging from pH 2.0 to pH 12.0, as well. The buffer solution pH 7.6 frequently sought by pool/spa testers is one of these.

Prolong the useful life of your electrodes. When not in use, keep the sensors moist with our **pH Soaker Solution (R-0834)**. Prepared with ACS chemicals, this odorless hydrating solution will not foul electrodes as a color-coded buffer can.



Taylor offers a wide selection of standard solutions in various sizes. Most are bottled in plastic to avoid additional shipping/handling charges by carriers.

## CONDUCTIVITY TESTING

The traditional method for neutralizing a sample's alkalinity is a two-part process that uses **phenolphthalein** as the indicator and **gallic acid** as the neutralizer. This reliable procedure has served the industry well for more than 50 years and, in fact, Taylor sells these reagents.

But now you can neutralize your sample in one simple step because our neutralizing solution has a built-in color indicator. Just add **Conductivity Neutralizing Solution (R-7022)** dropwise until the sample turns red. Then continue adding R-7022 one drop at a time until the red color vanishes. At this point, the sample alkalinity is neutralized, and it's ready for accurate measurement of the conductivity.



*the most trusted name in water testing*

**Taylor Technologies, Inc.**

410-472-4340

800-TEST KIT (837-8548)

www.taylortechnologies.com

ISO 9001:2008 Certified

Description of Product	Reagent #
<b>Barium Chloride Solution</b>	
Barium Chloride Solution 10% 16 oz.	R-0646-E
Barium Chloride Solution 10% 32 oz.	R-0646-F
Barium Chloride Solution 10% gal.	R-0646-G
Barium Chloride Solution 20% 2 oz.	R-0711-C
Barium Chloride Solution 20% 16 oz.	R-0711-E
Barium Chloride Solution 20% 32 oz.	R-0711-F
Barium Chloride Solution 30% 16 oz.	R-0720-E*

<b>Buffer Solution</b>	
Buffer Solution pH 2.0 16 oz.	R-1099-02-E
Buffer Solution pH 4.0 2 oz. DT	R-1099-04-C
Buffer Solution pH 4.0 4 oz.	R-1099-04-D
Buffer Solution pH 4.0 16 oz.	R-1099-04-E
Buffer Solution pH 4.0 32 oz.	R-1099-04-F
Buffer Solution pH 4.0 gal.	R-1099-04-G
Buffer Solution pH 7.0 2 oz. DT	R-1099-07-C
Buffer Solution pH 7.0 4 oz.	R-1099-07-D
Buffer Solution pH 7.0 16 oz.	R-1099-07-E
Buffer Solution pH 7.0 32 oz.	R-1099-07-F
Buffer Solution pH 7.0 gal.	R-1099-07-G
Buffer Solution pH 7.6 16 oz.	R-7062-E
Buffer Solution pH 7.6 gal.	R-7062-G
Buffer Solution pH 8.0 16 oz.	R-1099-08-E
Buffer Solution pH 9.0 16 oz.	R-1099-09-E
Buffer Solution pH 10.0 2 oz. DT	R-1099-10-C
Buffer Solution pH 10.0 4 oz.	R-1099-10-D
Buffer Solution pH 10.0 16 oz.	R-1099-10-E
Buffer Solution pH 10.0 32 oz.	R-1099-10-F
Buffer Solution pH 10.0 gal.	R-1099-10-G
Buffer Solution pH 11.0 16 oz.	R-1099-11-E
Buffer Solution pH 12.0 16 oz.	R-1099-12-E
pH Soaker Solution** 2 oz.	R-0834-C
pH Soaker Solution** 16 oz.	R-0834-E

<b>Conductivity Neutralizing Solution</b>	
Conductivity Neutralizing Solution 2 oz. DB	R-7022-C
Conductivity Neutralizing Solution 16 oz.	R-7022-E
Conductivity Neutralizing Solution gal.	R-7022-G*

Description of Product	Reagent #
<b>Conductivity Solution</b>	
Conductivity Solution 50 µS (23.4 ppm NaCl) 32 oz.	R-0868-50-F
Conductivity Solution 500 µS (242 ppm NaCl) 16 oz.	R-0868-5C-E
Conductivity Solution 500 µS (242 ppm NaCl) 32 oz.	R-0868-5C-F
Conductivity Solution 500 µS (242 ppm NaCl) gal.	R-0868-5C-G
Conductivity Solution 1000 µS (492 ppm NaCl) 16 oz.	R-0868-1K-E
Conductivity Solution 1000 µS (492 ppm NaCl) 32 oz.	R-0868-1K-F
Conductivity Solution 1000 µS (492 ppm NaCl) gal.	R-0868-1K-G
Conductivity Solution 2500 µS (1273 ppm NaCl) 2 oz. DT	R-0868-25C-C
Conductivity Solution 2500 µS (1273 ppm NaCl) 4 oz.	R-0868-25C-D
Conductivity Solution 2500 µS (1273 ppm NaCl) 16 oz.	R-0868-25C-E
Conductivity Solution 2500 µS (1273 ppm NaCl) 32 oz.	R-0868-25C-F
Conductivity Solution 2500 µS (1273 ppm NaCl) gal.	R-0868-25C-G
Conductivity Solution 3900 µS (2027 ppm NaCl) 2 oz. DT	R-0868-39C-C
Conductivity Solution 3900 µS (2027 ppm NaCl) 32 oz.	R-0868-39C-F
Conductivity Solution 5000 µS (2634 ppm NaCl) 32 oz.	R-0868-5K-F
Conductivity Solution 5000 µS (2634 ppm NaCl) gal.	R-0868-5K-G

<b>DI Water</b>	
DI Water 2 oz. DT	R-0833-C
DI Water 32 oz.	R-0833-F
DI Water gal.	R-0833-G

<b>Dilute Ammonia</b>	
Dilute Ammonia 1:1 2 oz. DT	R-1305Y-C

<b>Dilute Hydrochloric Acid</b>	
Dilute Hydrochloric Acid 4 oz.	R-1305J-D
Dilute Hydrochloric Acid 16 oz.	R-1305J-E

<b>EDTA Standard Solution</b>	
EDTA Standard Solution 0.005M 32 oz.	R-7035-F

**KEY:** DB = Dropper Bottle DT = Dispenser Tip

\* Requires special packaging or has shipping restrictions that may involve additional shipping/handling charges. Contact Customer Service Department at 800-TEST-KIT for more information.

\*\* This is Buffer Solution pH 4.0 with no dye.

Description of Product	Reagent #
<b>FAS-DPD Titrating Reagent</b>	
FAS-DPD Titrating Reagent (chlorine) 16 oz.	R-0875-E
<b>Gallic Acid</b>	
Gallic Acid .25 lb.	R-7046-J
Gallic Acid 1 lb.	R-0746-K
<b>Hardness Reagent</b>	
Hardness Reagent .001M 32 oz.	R-0920-F
Hardness Reagent .001M gal.	R-0920-G
Hardness Reagent .0025M 2 oz. DB	R-0684-C
Hardness Reagent .0025M 16 oz.	R-0684-E
Hardness Reagent .01M 16 oz.	R-0618-E
Hardness Reagent .01M 32 oz.	R-0618-F
Hardness Reagent .01M gal.	R-0618-G
Hardness Reagent .01M gal., 4-pack	R-0618-G4
<b>Hydrochloric Acid</b>	
Hydrochloric Acid N/50 gal.	R-0760-G*
Hydrochloric Acid N/30 gal.	R-0899-G*
Hydrochloric Acid N/20 2 oz. DB	R-0785-C
Hydrochloric Acid N/10 16 oz.	R-0627H-10-E
Hydrochloric Acid .12N 2 oz. DB	R-0724-C
Hydrochloric Acid .12N 16 oz.	R-0724-E
Hydrochloric Acid .12N 32 oz.	R-0724-F
Hydrochloric Acid .25N 2 oz. DB	R-0627H-4-C
Hydrochloric Acid .6N 16 oz.	R-0735-E
Hydrochloric Acid .6N 32 oz.	R-0735-F
Hydrochloric Acid 1N 16 oz.	R-0738-E
Hydrochloric Acid 1N 32 oz.	R-0738-F
Hydrochloric Acid 2.5N 32 oz.	R-0655H-2-F
Hydrochloric Acid 3N 2 oz. DB	R-0737-C
Hydrochloric Acid 3N 32 oz.	R-0737-F
Hydrochloric Acid Concentrated 2 oz.	R-0616-C
Hydrochloric Acid Concentrated 16 oz.	R-0616-E*
<b>Iodide Iodate</b>	
Iodide Iodate N/126 16 oz.	R-0633-126-E
Iodide Iodate N/126 32 oz.	R-0633-126-F
Iodide Iodate N/126 gal.	R-0633-126-G
Iodide Iodate N/80 16 oz.	R-0633-80-E
Iodide Iodate N/80 32 oz.	R-0633-80-F
Iodide Iodate N/80 gal.	R-0633-80-G
Iodide Iodate N/63 16 oz.	R-0617-E

Description of Product	Reagent #
Iodide Iodate N/63 32 oz.	R-0617-F
Iodide Iodate N/63 gal.	R-0617-G
Iodide Iodate N/40 16 oz.	R-0633-40-E
Iodide Iodate N/40 32 oz.	R-0633-40-F
Iodide Iodate N/40 gal.	R-0633-40-G
Iodide Iodate N/10 16 oz.	R-0633-10-E
Iodide Iodate N/10 gal.	R-0633-10-G
<b>Permanganate</b>	
Permanganate N/10 16 oz.	R-0652-E
Permanganate N/5 2 oz.	R-1305L-C
<b>pH Soaker Solution (see Buffer Solution)</b>	
<b>Phenolphthalein Indicator</b>	
Phenolphthalein Indicator .75 oz. (X = kit color code)	R-0638X-A
Phenolphthalein Indicator 2 oz. DB (X = kit color code)	R-0638X-C
Phenolphthalein Indicator 16 oz.	R-0638-E
Phenolphthalein Indicator 32 oz.	R-0638-F
Phenolphthalein Indicator gal.	R-0638-G*
Phenolphthalein Indicator 1% 16 oz.	R-0638S-E
Phenolphthalein Indicator 1% 32 oz.	R-0638S-F
<b>Silver Nitrate</b>	
Silver Nitrate N/71 16 oz.	R-0629-71-E
Silver Nitrate N/71 32 oz.	R-0629-71-F
Silver Nitrate N/58.4 16 oz.	R-0629-58-E
Silver Nitrate N/58.4 32 oz.	R-0629-58-F
Silver Nitrate N/50 16 oz.	R-0629-50-E
Silver Nitrate N/50 32 oz.	R-0629-50-F
Silver Nitrate N/35.5 16 oz.	R-0629-35-E
Silver Nitrate N/35.5 32 oz.	R-0629-35-F
Silver Nitrate N/10 2 oz. DB	R-0698-C
Silver Nitrate N/10 32 oz.	R-0698-F
Silver Nitrate N/7.1 32 oz.	R-0692-F
Silver Nitrate .54N 2 oz. DB	R-0629-C
<b>Sodium Carbonate</b>	
Sodium Carbonate N/50 gal.	R-0632-50-G
Sodium Carbonate N/10 2 oz. DB	R-0716-C
Sodium Carbonate .24N 2 oz. DB	R-0810-C
Sodium Carbonate .24N 16 oz.	R-0810-E

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Description of Product	Reagent #
<b>Sodium Hydroxide</b>	
Sodium Hydroxide N/50 16 oz.	R-0628-50-E
Sodium Hydroxide N/50 32 oz.	R-0628-50-F
Sodium Hydroxide N/50 gal.	R-0628-50-G*
Sodium Hydroxide N/44 16 oz.	R-0628-44-E
Sodium Hydroxide N/44 32 oz.	R-0628-44-F
Sodium Hydroxide N/10 2 oz. DB	R-0628-10-C
Sodium Hydroxide N/10 16 oz.	R-0628-10-E
Sodium Hydroxide N/10 32 oz.	R-0628-10-F
Sodium Hydroxide N/10 gal.	R-0628-10-G*

<b>Sodium Thiosulfate</b>	
Sodium Thiosulfate 2% gal.	R-7008-G
Sodium Thiosulfate 10% 2 oz. DB	R-7061-C

<b>Standard Alkali</b>	
Standard Alkali N 2 oz. DB	R-0656-C
Standard Alkali N 32 oz.	R-0656-F

<b>Sulfuric Acid</b>	
Sulfuric Acid N/50 16 oz.	R-0627S-50-E
Sulfuric Acid N/50 32 oz.	R-0627S-50-F
Sulfuric Acid N/50 gal.	R-0627S-50-G*
Sulfuric Acid N/50 gal., 4-pack	R-0627S-50G4*
Sulfuric Acid N/10 2 oz. DB	R-0627S-10-C
Sulfuric Acid N/10 16 oz.	R-0627S-10-E
Sulfuric Acid N/10 32 oz.	R-0627S-10-F
Sulfuric Acid N/10 gal.	R-0627S-10-G*
Sulfuric Acid .12N 2 oz. DB (X = kit color code)	R-0687X-C
Sulfuric Acid .12N 16 oz.	R-0687-E
Sulfuric Acid .12N 32 oz.	R-0687-F

Description of Product	Reagent #
Sulfuric Acid .12N gal.	R-0687-G*
Sulfuric Acid .12N gal., 4-pack	R-0687-G4*
Sulfuric Acid .24N 2 oz. DB	R-0811-C
Sulfuric Acid .24N 16 oz.	R-0811-E
Sulfuric Acid .6N 2 oz. DB (X = kit color code)	R-0736X-C
Sulfuric Acid .6N 16 oz.	R-0736-E
Sulfuric Acid .6N 32 oz.	R-0736-F
Sulfuric Acid N 2 oz. DB (X = kit color code)	R-0686X-C
Sulfuric Acid N 16 oz.	R-0686-E
Sulfuric Acid N 32 oz.	R-0686-F
Sulfuric Acid N gal.	R-0686-G*
Sulfuric Acid N gal., 4-pack	R-0686-G4*
Sulfuric Acid 1.28N 32 oz.	R-0655S-1-F
Sulfuric Acid 50% 2 oz.	R-0729-C
Sulfuric Acid 50% 2 oz. DB	R-0729-C-DB
Sulfuric Acid 50% 16 oz.	R-0729-E*
Sulfuric Acid Concentrated 2 oz.	R-0608-C
Sulfuric Acid Concentrated 16 oz.	R-0608-E*

<b>TDS Solution</b>	
TDS Solution (equivalent to 1000 ppm 442™) 2 oz. DT	R-0968-1K-C
TDS Solution (equivalent to 1000 ppm 442™) 32 oz.	R-0968-1K-F*

<b>Thiosulfate</b>	
Thiosulfate N/10 2 oz. DB	R-0697-C
Thiosulfate N/10 16 oz.	R-0697-E
Thiosulfate N/10 32 oz.	R-0697-F
Thiosulfate N/10 gal., 4-pack	R-0697-G4
Thiosulfate N 16 oz.	R-0824-E

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