



## # 562 Salt - Brackish - Estuary Ocean Water Sciencefaircenter.com Study Kit

Each water sample is tested for this Set of parameters:  
Salinity (Dissolved Salt) and pH of Water  
(2 tests per Set)

Log onto  
[www.sciencefaircenter.com/documentation.tpl](http://www.sciencefaircenter.com/documentation.tpl)  
for additional information on this study kit.

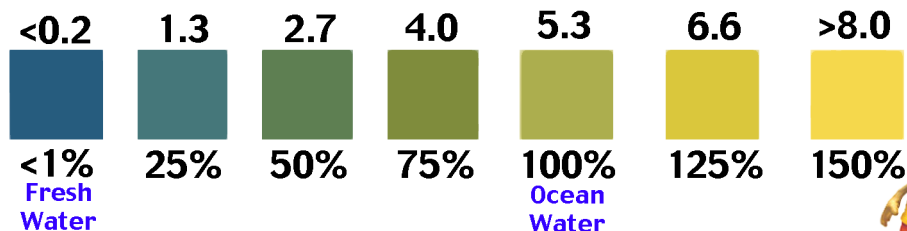
Find more water information at [www.sciencefairwater.com](http://www.sciencefairwater.com) (a web work in progress).

© Copyright 2004 thru 2013 including all related website content on [www.sciencefaircenter.com](http://www.sciencefaircenter.com) - all rights reserved. Gordon Snyder & Consultants, Inc.

# Salinity (Dissolved Salt)

## Conductivity

(x10<sup>4</sup>microSiemens/cm or  $\mu$ S/cm)



## Salt Concentration

(as percentage of ocean water)



## # 175 Salinity (Dissolved Salt) in Water

Colorimetric test strips. (1 test per strip)

Testing for Salinity of Salt and Brackish water is very common when monitoring tidal water, bays, estuaries and water wells near the ocean. Distinguishing between salt and fresh water with a pH between 5.5 to 9.5 is very quick and easy with these test strips.

The color chart allows you to read Salinity or Dissolved Salt as Conductivity or as a percentage of average Ocean water salt concentration.

The Color Comparator Chart for this test reports Salt concentration levels in water at:

<0.2, 1.3, 2.7, 4.0, 5.3, 6.6 and >8.0 (10 microSiemens/cm or  $\mu$ S/cm). Results are obtained from this test in about 1 minute.

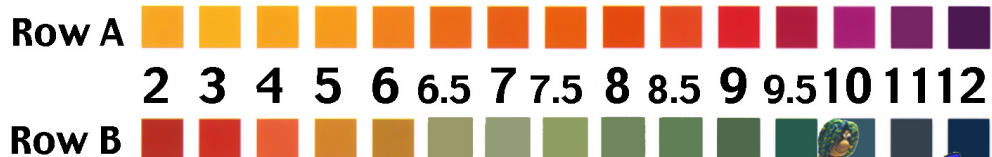
Salinity is simply a measure of the amount of salt dissolved in the water. Salts are substances such as common table salt (sodium chloride, NaCl), limestone (calcium carbonate, CaCO<sub>3</sub>) and many others. They are picked up by the groundwater as it passes through the rocks and soils that make up the aquifer.

Low levels of these salts are vital to the growth of aquatic plants

Find more water information at [www.sciencefairwater.com](http://www.sciencefairwater.com) (a web work in progress).

© Copyright 2004 thru 2013 including all related website content on [www.sciencefaircenter.com](http://www.sciencefaircenter.com) - all rights reserved. Gordon Snyder & Consultants, Inc.

# pH Scales



## # 110 pH Testing of Water

Colorimetric test strips. (1 test per strip)

This pH test is very versatile in that it can be used for Drinking Water testing, food processing, environmental applications or in any other water matrix.

pH is short for “Power of Hydrogen”. The balance of positively charged and negatively charged hydrogen ions in drinking water determines pH.

Water that has a low pH is acidic or aggressive and can corrode plumbing resulting in metal ions being present in drinking water and damages fixtures and pipes.

Water that has a high pH is basic and will leave scale in pipes and fixtures.

This test features two test pads both measuring at the same range using different color indicators. This makes color matching easier on the Color Comparator Chart than with other colorimetric tests.

The test reports water pH at the following levels:  
2.0, 3.0, 4.0, 5.0, 6.0, 6.5, 7.0, 7.5, 8.0, 8.5, 9.0, 9.5, 10, 11, and 12  
Results are obtained from this test in 1 minute.

Find more water information at [www.sciencefairwater.com](http://www.sciencefairwater.com) (a web work in progress).

© Copyright 2004 thru 2013 including all related website content on [www.sciencefaircenter.com](http://www.sciencefaircenter.com) - all rights reserved. Gordon Snyder & Consultants, Inc.

## **Note:**

These pH test strips perform optimally in water with a Total Alkalinity above 80 mg/L or ppm. Water highly saturated with dissolved solids or highly buffered samples will give elevated results for pH.

## **Note:**

National Secondary Drinking Water Regulations set forth by EPA recommend a pH level 6.5 - 8.5 .

Find more water information at [www.sciencefairwater.com](http://www.sciencefairwater.com) (a web work in progress).

© Copyright 2004 thru 2013 including all related website content on [www.sciencefaircenter.com](http://www.sciencefaircenter.com) - all rights reserved. Gordon Snyder & Consultants, Inc.