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# Calculating pH

How is pH related to the concentration of hydronium ions?

In biology and other science courses pH is introduced as a way to quantify the acidity or basicity of a solution. This property can be measured using a pH probe or with an indicator paper strip that changes color at different pH values. But, what is actually being measured? We know that a pH of 7 is neutral, below 7 is acid, and above 7 is base, but why? What in the solution is the paper strip or probe actually reacting with?

#### Model 1 - Ion Concentrations for Acids and Bases

Beaker	Solution	Acidic, Basic or Neutral?	[H <sub>3</sub> O*]	[OH-]	[H <sub>3</sub> O*] × [OH:
1	0.10 M HCl(aq)	Acidic	1.0×10 <sup>-1</sup> M	1.0×10 <sup>-13</sup> M	1×10-11
2	0.0010 M HCl(aq)	Acidic	1.0×10 <sup>-5</sup> M.	1.0×10 <sup>-11</sup> M	I×10-14
3	0.000010 M HCl(aq)	Acidic	1.0×10 <sup>-5</sup> M	1.0×10⁻º M	$I \times IO^{-td}$
4	0.0000010 M HCl(aq)	Acidic	1.0×10 <sup>-6</sup> M	1.0×10 <sup>-4</sup> M	$I \times IO^{-t4}$
5	0.00000010 M HCl(aq)	Neutral	1.0×10 <sup>-3</sup> M	1.0×10 <sup>-3</sup> M	$I \times IO^{-14}$
- 6	0.00000010 M NaOH(aq)	Neutral	1.0×10 <sup>-2</sup> M	1.0×10 <sup>-7</sup> M	1×10-14
7	0.0000010 M NaOH(aq)	Basic	1.0×10 <sup>-8</sup> M	1.0×10 <sup>-4</sup> M	1×10-34
8	0.00010 M NaOH(aq)	Basic	1.0×10 <sup>-10</sup> M	1.0×10 <sup>-4</sup> M	I×10-14
9	0.010 M NaOH(aq)	Basic	1.0×10 <sup>-12</sup> M	1.0×10 <sup>-2</sup> M	1×10-14
10	0.10 M NaOH(aq)	Basic	1.0×10 <sup>-13</sup> M	1.0×10 <sup>-1</sup> M	1×10-14

1. What does the symbol [H<sub>3</sub>O\*] in Model 1 indicate?

The molar concentration of hydronium ion.

- In Beaker 2, which ion has a higher concentration, hydronium ion or hydroxide ion?
   Hydronium ion.
- Describe how the concentration of hydronium ion was calculated for Beaker 3 in Model 1 from the concentration of the acid.

Since HCl is a strong acid, all of the molecules ionize in water. Therefore, the H<sub>3</sub>O' concentration is equal to the initial acid concentration in the solution.

 Describe how the concentration of hydroxide ion was calculated for Beaker 8 in Model 1 from the concentration of the base.

Since NaOH is a strong base, it completely disorciates in toater. Therefore, the OH concentration is equal to the initial base concentration in the solution.

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