

Red Cabbage pH Indicator



pH 1

7

14

What is pH?

It is a scale to measure acidity.

How is pH determined?

It is defined as:

$$\text{pH} = -\log[\text{H}^+]$$

What is log? Is it the stuff a log cabin is made of?

No, it is not the same as what a log cabin is made from. Log is a mathematical term for the opposite of 10 raised to the power of a number. Example:

$$10^5 = 100,000$$

or

$$\log 100,000 = 5$$

$$10 \times 10 \times 10 \times 10 \times 10$$



What is $[\text{H}^+]$?

$[\text{H}^+]$ is the number of hydrogen (H) ions per a liter of liquid. An ion is a charged atom. In this case the charge is +1.