



## pH.vi Readme

This VI calculates the concentration of hydrogen ions, pOH, and concentration of hydroxide ions for a selected pH. A graph of concentration of hydrogen ions as a function of pH is displayed. The graph's cursor controls the selected pH.

Since  $\text{pH} = \log\left(\frac{1}{\text{H}^+}\right) = -\log(\text{H}^+)$ ,  $\text{H}^+$  is calculated as  $\text{H}^+ = 10^{-\text{pH}}$ . Then, assuming room temperature,  $\text{pOH} = 14 - \text{pH}$ . Finally,  $\text{OH}^- = 10^{-\text{pOH}}$ .

This VI was built using LabVIEW 8.5 on a Mac running OS X. The VI will run in Windows with LabVIEW 8.5 or later installed.

Please direct all comments and questions regarding the contents of this document to:

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Warm regards,

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