

## 19.4 The Buffer Region (Video)

This project was preformed to supply **Libretext authors** with videos on General Chemistry topics which can be used to enhance their projects. Also, these videos are meant to act as a learning resource for **all General Chemistry students**.

### Video Topics

A buffer is only effective when the pH of the solution is within plus or minus 1 of the pK<sub>a</sub> of the weak acid.

The weak acid HC<sub>2</sub>H<sub>3</sub>O<sub>2</sub> has: pK<sub>a</sub> = 4.74. A buffer created using this weak acid would be effective between the pH of 3.74 and 5.74.

For a buffer to work {A} ~ {CB}. This is why a buffer works best when the pH is near the pK<sub>a</sub> of the acid.

### Link to Video

The Buffer Region: [https://youtu.be/s5H\\_S\\_vmdlk](https://youtu.be/s5H_S_vmdlk)



### Attribution

- Prof. Steven Farmer ([Sonoma State University](#))

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