

Revised August 2012

## AP LAB 5c: REDOX Titration Simulations

### Manganate(VII)/Fe<sup>2+</sup> titration

1. Given that aqueous manganate(VII) (permanganate) ions will be converted to Mn<sup>2+</sup> ions in acid solution, write a half equation to summarize this process.
2. Write a half equation to summarize the conversion of Fe<sup>2+</sup> to Fe<sup>3+</sup>.
3. Combine the equations in #1 and #2 above to form a complete REDOX equation, and clearly identify the oxidizing agent and the reducing agent.

4. The REDOX titration computer simulation to accompany this LAB is located at [www.chem.iastate.edu/group/Greenbowe/sections/projectfolder/flashfiles/redoxNew/redox.html](http://www.chem.iastate.edu/group/Greenbowe/sections/projectfolder/flashfiles/redoxNew/redox.html)

Go to the computer simulation and do the following:

- (a) Select the reaction: Choose KMnO<sub>4</sub>. The buret will automatically fill with the selected oxidizing agent. The computer will automatically assign a molarity for the oxidizing agent.
  - (b) Use the slider to add a few mL of the oxidizing agent to the Fe<sup>2+</sup> solution. Repeat this process until a slight pink "flash" of color is observed and then disappears. This is the signal that you are near the endpoint of the titration.
  - (c) Titrate to the end point. Getting the exact end point, requires great care (adding dropwise) and will be reached when there is a permanent pale pink color in the flask. Avoid adding too much oxidizing agent (dark purple) and having to start over.
5. Fill in the table below.

Molarity of oxidizing agent	
Volume of oxidizing agent added	
Volume of Fe <sup>2+</sup> solution	

6. Calculate the molarity of the Fe<sup>2+</sup>, enter this number (to three sig. figs) and click-on "OK". If you have done the titration accurately and correctly completed the calculation then you will have the correct answer. If NOT, then repeat the titration until the "Correct" message is seen.

# Ap Lab 5c Redox Titration Simulations Adrian Dingles

**M Mark**



**Ap Lab 5c Redox Titration Simulations Adrian Dingles:**

## **Ap Lab 5c Redox Titration Simulations Adrian Dingles** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Ap Lab 5c Redox Titration Simulations Adrian Dingles**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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