Pre-lab Questions – Experiment 4: Solution Conductivity

Write answers to the following questions on this page and bring it with you to lab. Show all your work.

1. Using Table 1 in the laboratory handout, rank the following species from most to least conductive: Cl^-, Br^-, OH^-, acetate ion

2. Write the balanced total ionic equation for the titration of aq. LiOH with aq. HNO_3.

3. You measure the conductivity of 50 mL of 0.1 M HBr. If you then add 50 mL of 0.1 M KOH, will your resulting conductivity be higher, lower, or the same? Explain your answer.