



Conductivity of Solutions

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(This demonstration will need to be done with a computer that has logger pro installed on it)

MATERIALS

- Conductivity probe
- Nano-pure water
- Tap water
- Vegetable oil
- Acetone in squirt bottle
- 2M NaCl solution
- *More solutions if desired*
- Waste beaker
- Three clean 250mL beakers with nano-pure water (to rinse probe)
- Hot-plate

PRESENTATION

- This presentation does not have to be in any particular order. Before the beginning of class it is important to make sure that the conductivity probe is communicating with the computer that you are using.
- After dipping the probe in the vegetable oil, liberally rinse it with acetone and then rinse it in the nano-pure water.

- After using the conductivity probe in any solution, rinse it in the three stages of nano-pure water. (similar to a pH probe wash)

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DISCUSSION

- Polarity
- Conductivity
- Kinetics

HAZARDS (MSDS Links)

- This demonstration should be done with goggles and gloves. There is nothing too harmful.

[Undergraduate](#)^[1]

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[1] <http://www.chem.arizona.edu/taxonomy/term/11>