

Conductivity of Solutions: The Effect of Concentration

If an ionic compound is dissolved in water, it dissociates into ions and the resulting solution will conduct electricity. Dissolving solid sodium chloride in water releases ions according to the equation:



In this experiment, you will study the effect of increasing the concentration of an ionic compound on conductivity. Conductivity will be measured as concentration of the solution is gradually increased by the addition of concentrated NaCl drops. The same procedure will be used to investigate the effect of adding solutions with the same concentration (1.0 M), but different numbers of ions in their formulas: aluminum chloride, AlCl_3 , and calcium chloride, CaCl_2 . A computer-interfaced Conductivity Probe will be used to measure conductivity of the solution. Conductivity is measured in microsiemens (μS).



Figure 1

MATERIALS

Power Macintosh or Windows PC
Vernier computer interface
Logger Pro
Vernier Conductivity Probe
ring stand
utility clamp

100-mL beaker
distilled water
1.0 M NaCl solution
1.0 M CaCl_2 solution
1.0 M AlCl_3 solution
stirring rod

PROCEDURE

1. Obtain and wear goggles.
2. Prepare the computer for data collection by opening the file in the Experiment 14 folder of *Chemistry with Computers*. The vertical axis will have conductivity scaled from 0 to 2000 μS . The horizontal axis will have volume scaled from 0 to 8 drops.

Conductivity Lab Ap Chemistry

Lei Huang



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Geotechnics for Developing Africa G.E. Blight,A.B. Fourie,G.R. Wardle,1999-01-01 The proceedings represent a valuable reference on geotechnical problems peculiar to Africa and for engineering solutions to local problems Topics covered are Foundation engineering and lateral support Methods of design and analysis Monitoring laboratory and field testing Municipal industrial and mining waste and environmental geotechnics Soil improvement Transportation geotechnics Case studies The proceedings are also an invaluable source of data on the properties of African soils the properties of residual and tropical soils as well as climate related problems *Laboratory Apparatus and Reagents Selected for Laboratories of Chemistry and Biology* Thomas, Arthur H., Company, Philadelphia,1914 **Current Hydraulic Laboratory Research in the United States** ,1962 **American Chemical Journal** Ira Remsen,Charles August Rouiller,1906 **Contribution from the Research Laboratory of Physical Chemistry** Massachusetts Institute of Technology. Research Laboratory of Physical Chemistry, **Chemical Abstracts** ,1908 *Modern Laboratory Appliances for Chemical, Biological, Metallurgical Laboratories* Fisher Scientific Company,1960 **Bulletin of the National Research Council** National Research Council (U.S.),1922 **Research Laboratories in Industrial Establishments of the United States** ,1920 Research Laboratories in Industrial Establishments of the United States, Including Consulting Research Laboratories National Research Council (U.S.). Research Information Service,1922 Circulars Johns Hopkins University,1912 **Annual Report of the President of the Johns Hopkins University, Baltimore, Maryland** ,1910 *Report of the President of the Johns Hopkins University, Baltimore, Maryland* Johns Hopkins University,1908 **The Johns Hopkins University Circular** Johns Hopkins University,1912 Includes University catalogues President s report Financial report registers announcement material etc Chemical Laboratory Contributions Stanford University. Department of Chemistry,1929 *The Planter and Sugar Manufacturer* ,1926 Louisiana Planter and Sugar Manufacturer ,1926 The Journal of Physical Chemistry Wilder Dwight Bancroft,1903 Includes section New Books **The Journal of Physical Chemistry** ,1903 **Basic Laboratory Studies in College Chemistry** William Hered,1957

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