

Ionic Salts Simulation Lab**Learning Goals:**

- Understand how an ionic salt dissolves describing a saturated solution microscopically and macroscopically.
- Calculate solubility in grams/100ml
- Determine why some salts are more soluble than others
- Design and carry out a virtual lab to test a hypothesis

Directions: Go to

http://phet.colorado.edu/simulations/sims.php?sim=Salts_and_Solubility and run the Salts and Solubility simulation. Take a few minutes to get use to how the simulation works. Then answer the questions below.

Questions:

- 1) Describe what you observe when you shake table salt into water. Test numbers of particles with different volumes.
 - a. When the salt dissolves, which element becomes the anion (the negatively charged atom) and which one becomes the cation (the positively charged atom)?
 - b. What is the relationship between amount of particles and amount of water? (direct or indirect).
 - c. At 5.00×10^{-23} what is the point of saturation (point where you can't dissolve any more salt)?
- 2) Fill in the chart below to see if the ratio of particles to water is constant at the saturation point.

Particles	Water Volume	Ratio (particles/volume)

- a. Calculate the constant below (show your work)

- 3) Test a variety of slightly soluble salts, noting the relationship between numbers of each ion pair. Fill in the chart below to help you see a relationship.
 - a. How many particles of each element need to be present before the salt stops dissolving (point of saturation)?

Lab 30 Solubility Of A Salt Answers

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Lab 30 Solubility Of A Salt Answers:

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Self-assessment Questions for Clinical Molecular Genetics Haiying Meng,2019-05-28 Review Questions of Clinical Molecular Genetics presents a comprehensive study guide for the board and certificate exams presented by the American College of Medical Genetics and Genomics ACMG and the American Board of Medical Genetics and Genomics ABMGG It provides residents and fellows in genetics and genomics with over 1 000 concise questions ranging from topics in cystic fibrosis to genetic counseling to trinucleotide repeat expansion disorders It puts key points in the form of questions thus challenging the reader to retain knowledge As board and certificate exams require knowledge of new technologies and applications this book helps users meet that challenge Includes over 1 0000 multiple choice USMLE style questions to help readers prepare for specialty exams in Clinical Cytogenetics and Clinical Molecular Genetics Designed to assist clinical molecular genetic fellows genetic counselors medical genetic residents and fellows and molecular pathologist residents in preparing for their certification exam Assists trainees on how to follow guidelines and put them in practice *Laboratory Experiments in General Chemistry* ,1974 *10 JEE Main Online 2025 Session I Previous Year Solved Papers (All sittings) with Rank Predictor 4th Edition | PYQs for Physics, Chemistry & Mathematics | Mock Tests* Disha Experts, 10 JEE Main Online 2025 Session 1 Solved Papers All Sittings consists of the 10 JEE Main Papers held b w 22nd Jan 29th Jan 2025 in 10 Slots 2 shifts per day The detailed solutions are provided immediately after each Paper Each Paper also provides Rank Predictor with the help of which you can predict your Rank These Papers can also be attempted as Mock Tests and can help you improve your Score in 2025 Session 2 2026 Session 1 2 These papers would act as a VERY IMPORTANT practice tool for JEE Main **Lab Experiments for Modern Chemistry** Tzimopoulo,1990 **Publications, Reports, and Papers for 1966 from Oak Ridge National Laboratory** F. M. O'Hara,Ann S. Klein,1967 **Foundations of Chemistry in the Laboratory** Morris Hein,Leo R. Best,Robert L. Miner,1973 *Science Educator's Guide to Laboratory Assessment* Rodney L. Doran,2002 The book opens with an up to date discussion of assessment theory research and uses Then comes a wealth of sample assessment activities in biology chemistry physics and Earth science Keyed to the National Science Education

Standards the activities include reproducible task sheets and scoring rubrics All are ideal for helping students reflect on their own learning during science lab *Science Directions 8* Douglas A. Roberts,Mary Kay Winter,1990 **Symposium on Current Research in the Chemical Sciences** Timothy G. Rials,1994 **Oil & Gas Journal** ,1926 **Pharmaceutical Record and Weekly Market Review** P. W. Bedford,1893 *Selected Water Resources Abstracts* ,1987 *Title List of Documents Made Publicly Available* ,1985 *Journal of the Society of Chemical Industry* Society of Chemical Industry (Great Britain),1927 Includes list of members 1882 1902 and proceedings of the annual meetings and various supplements

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