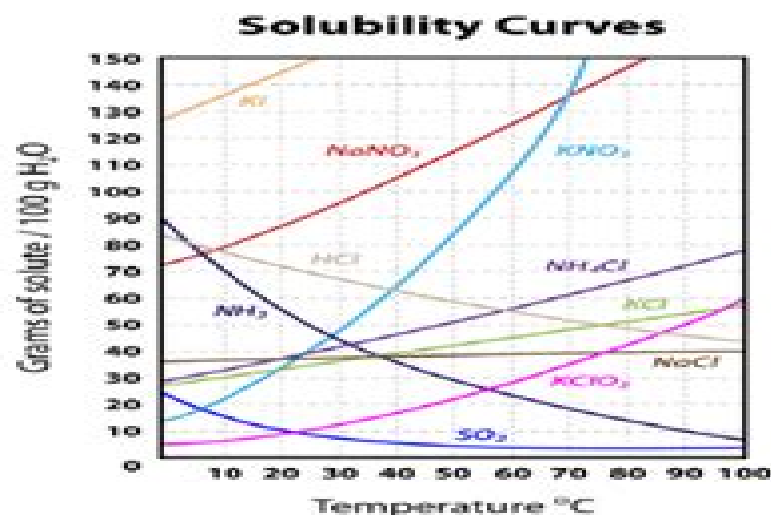


WS 6.1: Interpreting Solubility Curves

Directions: Use the Solubility Curve Table below to answer all questions. So you do not have to keep flipping your paper over you might want to put the solubility curve on your phone or computer screen when answering the questions on the back. All questions assume the amount of water is 100 ml.



- What is the solvent in this Solubility Curve?
water
- Saturation points are given per how much solvent?
100 ml or 100 g
- What is the saturation point of NaNO_3 at 10°C , 40°C , & 80°C ?
@ 10°C = ~79 g
@ 40°C = ~105 g
@ 80°C = ~146 g
- How much NH_3 can you dissolve in water at 10°C , 30°C , & 90°C ?
@ 10°C = ~70 g
@ 30°C = ~45 g
@ 90°C = ~10 g
- What is the maximum amount of KCl that can be dissolved in water at 20°C , 50°C , & 90°C ?
@ 20°C = ~33 g
@ 50°C = ~42 g
@ 90°C = ~53 g
- If you want to make a saturated solution of NaCl how many grams would you dissolve in 100 grams of water @ 80°C ?
About 40 grams
- Except for KCl What substance is the most soluble in water at 20°C ?
 NaNO_3
- Except for KCl what substance is the most soluble in water at 72°C ?
 KNO_3
- Look up The boiling points for SO_2 , HCl , and NH_3 and write them below:
B.P. SO_2 = -10°C
B.P. HCl = -85°C
B.P. NH_3 = -33°C
- Based on the boiling points you looked up, are SO_2 , HCl , & NH_3 solids, liquids, or gases at 0°C ? (and anywhere else on the solubility curve)
gases

Solubility Curve Ws

Brendan G. Carr

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Solubility Curve Ws :

Enantiomers, Racemates, and Resolutions Jean Jacques, André Collet, Samuel H. Wilen, 1994 Journal of the American Chemical Society American Chemical Society, 1925 Proceedings of the Society are included in v 1 59 1879 1937 Chemical Abstracts, 1915 **NBS Monograph**, 1962 *Thermodynamics and Chemistry* Pierre Maurice Marie Duhem, 1903

Development of Empirical Models to Predict Sucrose Crystallization in Confections Patricia A. Ryan, 2004

Solution and Electrolysis Sir William Cecil Dampier Dampier, 1895 *BIOSPERATIONS* B. SIVASANKAR, 2005-01-01

This systematically organized and well balanced book compresses within the covers of a single volume the theoretical principles and techniques involved in bio separations also called downstream processing These techniques are derived from a range of subjects for example physical chemistry analytical chemistry bio chemistry biological science and chemical engineering Organized in its 15 chapters the text covers in the first few chapters topics related to chemical engineering unit operations such as filtration centrifugation adsorption extraction and membrane separation as applied to bioseparations The use of chromatography as practiced at laboratory as well as industrial scale operation and related techniques such as gel filtration affinity and pseudoaffinity chromatography ion exchange chromatography electrophoresis and related methods have been discussed The important applications of these techniques have also been highlighted **The Journal of**

Industrial and Engineering Chemistry, 1923 **Introduction to Engineering Materials** George Murray, Charles V. White, Wolfgang Weise, 2007-09-07 Designed for the general engineering student Introduction to Engineering Materials Second Edition focuses on materials basics and provides a solid foundation for the non materials major to understand the properties and limitations of materials Easy to read and understand it teaches the beginning engineer what to look for in a particular material offers examples of materials usage and presents a balanced view of theory and science alongside the practical and technical applications of material science Completely revised and updated this second edition describes the fundamental science needed to classify and choose materials based on the limitations of their properties in terms of temperature strength ductility corrosion and physical behavior The authors emphasize materials processing selection and property measurement methods and take a comparative look at the mechanical properties of various classes of materials Chapters include discussions of atomic structure and bonds imperfections in crystalline materials ceramics polymers composites electronic materials environmental degradation materials selection optical materials and semiconductor processing Filled with case studies to bring industrial applications into perspective with the material being discussed the text also includes a pictorial approach to illustrate the fabrication of a composite Consolidating relevant topics into a logical teaching sequence Introduction to Engineering Materials Second Edition provides a concise source of useful information that can be easily translated to the working environment and prepares the new engineer to make educated materials selections in future industrial applications Corrosion Engineering, 2003 Solution & Electrolysis William Cecil Dampier

Whetham,1895 **Humidity and Moisture: Fundamentals and standards. A. Wexler and W.A. Wildhack, editors**
 Arnold Wexler,1965 **Residue Reviews** Francis A. Gunther,Jane Davies Gunther,2012-12-06 Worldwide concern in
 scientific industrial and governmental communities over traces of toxic chemicals in foodstuffs and in both abiotic and biotic
 environments has justified the present triumvirate of specialized publications in this field comprehensive reviews rapidly
 published progress reports and archival documentations These three publications are integrated and scheduled to provide in
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 Electrochemical Society,1916

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