

Title: Exp. #1 - Physical Properties of Organic Solvents Post Lab

Purpose: To learn how to properly measure density and solubility of organic solvents in comparison to water.

Data and Calculations:

Observed Value	Acetone	DCM	Ethanol	EtOAc	Hexane	MTBE	Toluene	Water
Density (g/mL)	0.68	1.52	0.94	2.47	0.75	0.68	0.85	1.01
Boiling Point (°C)	58	39.6	78.4	77.1	69	55.2	116.6	100
Water Solubility	S	ΔS	S	ΔS	I	ΔS	I	S
Naphthalene	S	S	S	S	S	S	S	I
Benzophenone	S	S	S	S	S	S	S	ΔS
Benzoic Acid	B	B	S	S	I	S	S	S
Citric Acid	S	B	S	S	I	S	I	S

Discussion: For aqueous solubility, the results show a correlation between polarity and solubility where the non-polar molecules (Hexane, MTBE, and Toluene) were either insoluble in water (polar), or only soluble at elevated temperatures. Two solubilities that resulted unexpectedly were Benzoic Acid in Hexane and Citric Acid in MTBE, as BA:Hex was predicted to be Barely Soluble and CA:MTBE to be insoluble. From these results, we can conclude that solubility is not bound to a specific measurement or absolute standard but can instead be broadly represented within specific expectations.

Error Analysis: A possible source of error was the measurement between different solutes and solvents. The instructions asked to us to measure 1 mg of the solute, but the scale measured greater values in grams, leading to more inconsistencies in the overall solute measurements. The consistent measurement of different solutes is important to get an accurate value of the solubility between solvents. The hot plates exhibited functional issues, where the plate would not heat up to the desired temperature required (45-55°C). This led to an unequal measurement between the hot plates, creating a difference in heating standards.

Conclusions: The objective of the experiment was achieved. This experiment led us to the conclusion that solubility will not always represent a measurable value that can be repeated consistently.

Post Lab Questions:

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Ensheng Dong



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Chemical and Engineering News ,1963 *Forthcoming Books* Rose Army,2001 *Safety Scale Laboratory Experiments for Chemistry for Today* Spencer L. Seager,Michael R. Slabaugh,Brooks/Cole Publishing Company,2004 The Fifth Edition of this accurate and well tested lab manual contains 15 general chemistry and 20 organic biochemistry safety scale laboratory experiments The experiments are designed to use small quantities of chemicals and emphasize safety and proper disposal of materials Safety scale is the authors own term for describing the amount of chemicals each lab experiment requires less than macroscale quantities which are expensive and hazardous and more than microscale quantities which are difficult to work with and require special equipment This lab manual provides a unique blend of laboratory skills and exercises that effectively illustrate concepts from the main text CHEMISTRY FOR TODAY GENERAL ORGANIC AND BIOCHEMISTRY Fifth Edition
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