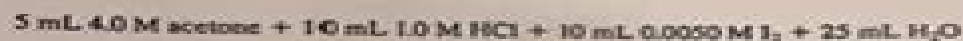


Experiment 20

Advance Study Assignment: The Iodination of Acetone

- In a reaction involving the iodination of acetone, the following volumes were used to make up the reaction mixture:



- How many moles of acetone were in the reaction mixture? Recall that, for a component A, moles $A = M_A \times V$, where M_A is the molarity of A and V is the volume in liters of the solution of A that was used. $5 \text{ mL} = 0.005 \text{ L}$

$$A = 4.0 \text{ M} \times 0.005 \text{ L}$$

$$\underline{0.02} \text{ moles acetone}$$

$$A = 0.02 \text{ moles acetone}$$

- What was the molarity of acetone in the reaction mixture? The volume of the mixture was 50 mL, 0.050 L, and the number of moles of acetone was found in Part (a). Again,

$$M_A = \frac{\text{moles of A}}{V \text{ of soln. in liters}}$$

$$M_A = \frac{0.02 \text{ M}}{0.050 \text{ L}} = 0.4 \text{ M acetone}$$

$$\underline{0.4} \text{ M acetone}$$

- How could you double the molarity of the acetone in the reaction mixture, keeping the total volume at 50 mL and keeping the same concentrations of H^+ ion and I_2 as in the original mixture?

1. Double the moles of acetone concentration

- Using the reaction mixture in Problem 1, a student found that it took 510 seconds for the color of the I_2 to disappear.

- What was the rate of the reaction? Hint: First find the initial concentration of I_2 in the reaction mixture, $[I_2]_0$. Then use Equation 3.

$$[I_2]_0 = 0.0050 \text{ M} \times 0.01 = \frac{0.000050 \text{ mol}}{0.050 \text{ L}} = 0.001 \text{ M}$$

$$\text{rate} = \underline{2.0 \times 10^{-6}} \text{ M/sec}$$

$$\text{rate} = \frac{0.001 \text{ M}}{510 \text{ s}} = 1.96 \times 10^{-6} \text{ M.s}^{-1} \approx 2.0 \times 10^{-6} \text{ M.s}^{-1}$$

- Given the rate from Part (a), and the initial concentrations of acetone, H^+ ion, and I_2 in the reaction mixture, write Equation 3 as it would apply to the mixture.

$$\text{rate} = K [\text{acetone}]^m [I_2]^n [H^+]^p$$

$$2.0 \times 10^{-6} = K (0.4 \text{ M})^m (0.02)^n (0.001)^p$$

- What are the unknowns that remain in the equation in Part (b)?

$$\underline{K} \quad \underline{m} \quad \underline{n} \quad \underline{p}$$

(continued on following page)

$$\begin{aligned} \text{mol } H^+ &= 1.0 \text{ M} \times 0.010 \\ &= \frac{0.010}{0.050} = 0.20 \end{aligned}$$

Advance Study Assignment Experiment 20 Answers

Jianjun Gao



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Physics Laboratory Experiments Jerry D. Wilson, 1986 **Introduction to Chemical Principles** Susan A. Weiner, Peters, Edward I. Peters, 1997 This laboratory manual provides a detailed chemical overview that enables students to truly understand the function of the laboratory All experiments have been thoroughly student tested and include step by step instructions including safety and disposal methods for each Research and Advanced Technology for Digital Libraries Jose Borbinha, Thomas Baker, 2003-06-26 ECDL2000 the Fourth European Conference on Research and Advanced Technology for Digital Libraries is being held this year in Lisbon Portugal following previous events in Pisa 1997 Heraklion 1998 and Paris 1999 One major goal of the ECDL conference series has been to draw information professionals stakeholders and user communities from both the research world and from industry into a discussion of the alternative technologies policies and scenarios for global digital libraries The success of previous conferences makes them a hard act to follow The field of digital libraries draws on a truly diverse set of scientific and technical disciplines In the past three years moreover global cooperation on research and development has emerged as an urgent priority particularly in the new European Framework Programme and in the Digital Library Initiative in the United States Because of this diversity the field is perhaps still struggling for an identity But this struggle for identity is itself a source of energy and creativity Participants in this field feel themselves to be part of a special community with special people Each of us may claim expertise on a narrow issue with specific projects but the choices we make and the methods we use in local solutions can have unforeseen impacts within a growing universe of interconnected resources *Artificial Intelligence in Education* Igbert Bittencourt, Mutlu Cukurova, Kasia Muldner, Rose Luckin, Eva Millán, 2020-07-04 This two volume set LNAI 12163 and 12164 constitutes the refereed proceedings of the 21th International Conference on Artificial Intelligence in Education AIED 2020 held in Marrakech Morocco in July 2020 The 49 full papers presented together with 66 short 4 industry innovation 4 doctoral consortium and 4 workshop papers were carefully reviewed and selected from 214 submissions The conference provides opportunities for the cross fertilization of approaches techniques and ideas from the many fields that comprise AIED including computer science cognitive and learning sciences education game design psychology sociology linguistics as well as many domain specific areas The conference was held virtually due to the COVID 19 pandemic **What Counts as Credible Evidence in Applied Research and Evaluation Practice?** Stewart I. Donaldson, Christina A. Christie, Melvin M. Mark, 2009 What Counts as Credible Evidence in Applied Research and Evaluation thoroughly covers one of the most fundamental issues facing applied research and evaluation practice today what counts as sound evidence for decision making An internationally renowned line up of authors explore a wide range of issues that address the fundamental challenges of designing and executing high quality applied research and evaluation studies Readers will come away from this volume with a new and clear understanding of the philosophical theoretical methodological political and ethical dimensions of gathering credible evidence to answer

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Research and Technology Program Digest United States. National Aeronautics and Space Administration, *Advances in Design for Inclusion* Giuseppe Di Bucchianico, 2018-06-23 This book addresses a range of topics in design such as universal design design for all digital inclusion universal usability and accessibility of technologies for people regardless of their age financial situation education geographic location culture and language It especially focuses on accessibility for people with auditory cognitive neurological and visual impairments ageing populations and mobility for those with special physical needs The book explores some of the overlaps between inclusive design and web accessibility to help managers designers developers policy makers and researchers optimize their efforts in these areas Based on the AHFE 2018 International Conference on Design for Inclusion held on July 21 25 2018 in Orlando Florida USA it discusses new design technologies and highlights the disparate needs of the individuals within a community Thanks to its multidisciplinary approach it is a valuable resource for readers from various backgrounds providing them a timely practice oriented guide to design for inclusion

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web solution w d 1 5936 0 500mol 8 3145jk1mol1 300k d 1 99 103j q d w d 1 99 103j 3 5 this problem is designed to test the assertion on page 60 that for typical thermodynamic processes in which the elevation of the center of mass changes it is usually a good approximation to set w equal to w_{lab}

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web solution for a refrigerator cop low t high t low solve for the hot side temperature 45 c low 273 high t low cop 10 45 c 273 250 8k answer is a 2 helium

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web question 1 what is true of isothermal process a $\Delta t = 0$ b $\Delta u = 0$ c $\Delta q = \Delta w$ d p v constants solution in an isothermal process temperature remains constant $\Delta t = 0$ since internal energy depends on the temperature $\Delta u = 0$ from first law of thermodynamics $\Delta u = \Delta q - \Delta w$ since $\Delta u = 0$ $\Delta q = \Delta w$ also p v n r t as t is constant p v