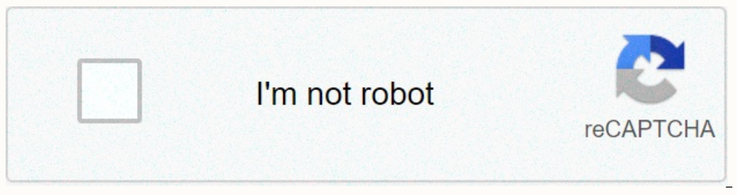

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Kinetics of crystal violet fading lab

Materials included in kit: crystal violet solution, 1%, 25 mLMalachite green solution, watery, 1%, 25 mLPhenolphthalein solution, 1%, 30 mLNadium hydroxide solution, 0.02 M, 500 mLPipet, serologically, 10 mL, 12 *AP is a registered trademark of the College Board, which was not involved in the production of, and does not endorse, this product. Item #: AP7644 Price: $46.60 In Stock. In the Kinetics of Crystal Violet Fading Inquiry Lab Solution for AP® Chemistry, students use spectroscopy methods and graphic analysis to determine the pricing law for the reaction of crystal violet with sodium

hydroxide. Includes access to exclusive FlinnPREP™ digital content to combine the benefits of classroom, laboratory and digital learning. Each blended learning lab solution includes prelab videos on concepts, techniques, and procedures, summary videos that relate the experiment to the AP® exam, built-in student lab safety training with assessments, and standards-based, tested research labs with real sample data. FlinnPREP™ Inquiry Lab Solutions are customizable to you and how you teach in multiple ways to access and run your AP® labs. See more product details Product Details Resources Accessories Specifications This item can only be shipped to schools, museums and science centers Resources Item #EL6026 AP7644 Type Digital Content Only Lab Kit & Digital Content Price $14.95 $46.60 Enter number of items Big Idea 4, Investigation 11, Primary Learning Objective 4.2 Crystal violet is a common, beautiful purple dye. In strong basic solutions, the bright color of the dye slowly fades and the solution becomes colorless. The kinetics of this fading reaction can be analyzed by measuring the color intensity or absorption of the solution versus time to determine the pricing law. In this advanced research lab, students use spectroscopy and graphic analysis to determine the pricing law for the color-blurring reaction of crystal violet with sodium hydroxide. First, students build a calibration curve of absorption versus concentration for crystal violet using a range of known or standard solutions. This procedure provides a model for students to design experiments to determine the order of reaction related to both crystal violet and sodium hydroxide. Two dyes with similar structures, malachite green and phenolphthalein, are provided for optional expansion or cooperative class research studies. Complete for 24 students working in pairs. A spectrophotometer or colorimeter and common laboratory equipment is required and available separately. A refill kit for the Kinetics from Crystal Violet Fading Advanced Inquiry Laboratory Kit is also available. A of this lab is available as a Wet/Dry Advanced Inquiry Laboratory Kit for a period (Catalog No. AP9475). Materials included in Kit: Crystal violet solution, 1%, 25 mLMalachite green, watery watery 1%, 25 mLPhenolphthalein solution, drip bottle, 1%, 30 mLNadium hydroxide solution, 0.02 M, 500 mLPipet, serological, 10 mL, 12Extra materials required (for each laboratory group): distilled or deionized water, cup, spectrophotometer/colorimeter and computer interface with data collection system (optional), pipep lamp filler, rudder rod, stopwatch (if not using data collection software), ribbon-free tissue or lens paper. Additional materials required (for prelab preparation): distilled or deimplanted water, serological pipette, pipette lamp filler, volumetric bottle. Advanced Placement • College/Chemistry Students determine the reaction order of crystal violet fading in the presence of sodium hydroxide. This version of the experiment is performed with a wireless colorimeter. A calibration curve of crystal violet is generated and optimal absorption wavelength determined by the student. Crystal violet fading is investigated using different concentrations of sodium hydroxide. PreviewDownloadStudent FilesTeacher FilesSign In to your PASCO account to access teacher files and sample information. Standards Correlations IB Topics AP Topics 6.1; 16.1; 16.3 TRA-3. B; TRA-3. C; TRA-3. A Watch Video How can we determine the order of a kinetic reaction? DOWNLOADS data file & student lab: SPARKvue... Recommended equipment This sensor can function as a turbidimeter or colorimeter and is able to measure absorption and transmission at six different wavelengths. Many lab activities can be performed with our wireless, PASPORT or even ScienceWorkshop sensors and equipment. Contact PASCO Technical Support for help replacing compatible instruments. We're here to help. Copyright © 2020 PASCO Copyright Disclaimer: Section 107 of the Copyright Act of 1976 takes into account fair use for education, scholarship, education and research. Reproduction under other circumstances, without the written consent of PASCO, is prohibited. Page 2 The following is a full list of lab activities from PASCO's Advanced Chemistry Through Inquiry Teacher Lab Manual. Each activity includes an editable student handout, IB/AP alignment data, and a Teacher Resource file that can be accessed by logging into your PASCO account. The experiments in this manual can be carried out using individual PASCO sensors, sensor beams or Lab Stations. You view the material list for an activity by previewing the student's handout. Product Detail Advanced Placement • College/Chemistry Students determine the reaction order of crystal violet fading in the presence of sodium hydroxide. This version of experiment is carried out with a wireless spectrometer. A calibration curve of crystal violet is generated and optimal absorption wavelength determined by the student. Crystal violet fading is examined using concentrations of sodium hydroxide. PreviewDownloadStudent FilesTeacher FilesSign In to your PASCO account to access teacher files and sample information. Standards Correlations IB Topics AP Topics 6.1; 16.1; 16.3 TRA-3. B; TRA-3. C; TRA-3. A Recommended equipment measures intensity, absorption, transmission over the visible spectrum and fluorescence at 405nm and 500nm. Many lab activities can be performed with our wireless, PASPORT or even ScienceWorkshop sensors and equipment. Contact PASCO Technical Support for help replacing compatible instruments. We're here to help. Copyright © 2020 PASCO Copyright Disclaimer: Section 107 of the Copyright Act of 1976 takes into account fair use for education, scholarship, education and research. Reproduction under other circumstances, without the written consent of PASCO, is prohibited. Page 2 The following is a full list of lab activities from PASCO's Advanced Chemistry Through Inquiry Teacher Lab Manual. Each activity includes an editable student handout, IB/AP alignment data, and a Teacher Resource file that can be accessed by logging into your PASCO account. The experiments in this manual can be carried out using individual PASCO sensors, sensor beams or Lab Stations. You view the material list for an activity by previewing the student's handout. 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Each blended learning lab solution includes prelab videos on concepts, techniques, and procedures, summary videos that relate the experiment to the AP® exam, built-in student lab safety training with assessments, and standards-based, tested research labs with real sample data. FlinnPREP™ Inquiry Lab Solutions are customizable to you and how you teach in multiple ways to access and run your AP® labs. See more product details Product Details Resources Accessories Specifications This item can only be shipped to Schools, Museums and Science Centers Resources # EL6026 AP7644 Type Digital Content Only Lab Kit & Digital Content Price $14.95 $46.60 Enter number of items Big Idea 4, Investigation 11, Primary Learning Objective 4.2 Crystal violet is a common, beautiful purple dye. Inch Inch basic solutions, the bright color of the dye fades slowly and the solution becomes colorless. 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