

The Synthesis and Analysis of Aspirin

Acetylsalicylic acid is the chemical name for aspirin, the ubiquitous pain reliever. One of the compounds used in the synthesis of aspirin is salicylic acid, which is itself a pain reliever that was known to many ancient cultures, including the Native Americans who extracted it from willow tree bark. Salicylic acid is extremely bitter tasting, and frequent use can cause severe stomach irritation. The search for a milder form of this pain reliever led to the successful synthesis of acetylsalicylic acid by the German chemist Felix Hoffmann in 1893.

Your two primary objectives in this experiment will be to synthesize and analyze aspirin. There is more than one way to synthesize aspirin; in this experiment, you will react acetic anhydride with salicylic acid in the presence of phosphoric acid (which acts as a catalyst). The reaction equation is shown below.



You will conduct two tests of your synthesis to verify that you did indeed make aspirin, and to determine its relative purity. First, you will measure the melting temperature of a sample of your product, using a Melt Station. Second, you will use a Spectrophotometer to test the absorbance of salicylic acid impurity in your aspirin sample after it has been complexed with Fe^{3+} from iron (III) nitrate solution.

OBJECTIVES

In this experiment, you will

- Synthesize a sample of acetylsalicylic acid (aspirin).
- Calculate the percent yield of your synthesis.
- Measure the melting temperature of your aspirin sample.
- Conduct a spectrophotometric analysis of your aspirin sample.

Synthesis Of Aspirin Pre Lab Answers

Tao Le



Synthesis Of Aspirin Pre Lab Answers:

Experimental Chemistry Robert J. Artz, 1982 Study Guide for Abrams' Clinical Drug Therapy GERALYN FRANDSEN, 2013-03-07 This study tool provides a wealth of activities to reinforce content from the text The activities accommodate many learning styles and promote the reader's ability to apply information in the patient care setting Applying Your Knowledge exercises challenge readers to develop critical thinking skills Mastering the Information exercises expand the reader's understanding of drug therapy and develop insight about client teaching needs NCLEX style multiple choice and alternate format questions offer opportunities to practice test taking skills **First Aid Q & A for the USMLE Step 1** Tao Le, 2007 Contains 1000 high yield board style questions and answers from the USMLE Rx Step 1 Qmax Test Bank with comprehensive explanations for correct and incorrect answers Also provides a full length 350 question practice test with 150 images that clarify answers and reinforce important high yield facts **Ebony**, 2001-10 EBONY is the flagship magazine of Johnson Publishing Founded in 1945 by John H Johnson it still maintains the highest global circulation of any African American focused magazine **Secondary Prevention of Ischaemic Cardiac Events** Elio E. Polli, M. Cortellaro, 1983

Board Buster Step 1 Stanley Zaslau, 2007 Students are continually searching for more questions and answers to test themselves and to review for course exams and boards Board Buster Step 1 is based on the guidelines of the USMLE Step 1 exam It contains two complete practice exams with over 700 board format and content questions These will be divided into blocks to simulate the exam Students can time each block to simulate a test experience for endurance Questions with answers for correct and incorrect options have been written by students and reviewed for accuracy Features of the book include tear out answer sheets to optimize study time content index to test specific content comprehensive index to search for specific content accurate and current board format questions This comprehensive Q A book will provide a superior review resource for medical students and IMGs It is also applicable for physician assistants and nurse practitioners studying for licensure exams *Drug and Allied Industries*, 1953 *Singapore Medical Journal*, 1960 **Science Citation Index**, 1993 Vols for 1964 have guides and journal lists **Bibliography of Agriculture**, 1989-07

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fuses Fuse box diagram (location and assignment of electrical fuses) for SEAT Altea (2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015). Seat Altea 2008 Fuse Box The fuse box is located under the instrument panel behind the cover on the driver's side. Engine compartment fuse box location: Fuse Box Diagram | Layout. Seat Altea XL fuse box diagrams for all years Explore interactive fuse box and relay diagrams for the Seat Altea XL. Fuse boxes change across years, pick the year of your vehicle: Is ... Seat Altea (2005) - fuse box diagram Mar 8, 2018 — Seat Altea (2005) - fuse box diagram · Fuses box on the left side of dash panel · Location under steering wheel, on relay carrier · Fuses layout in ... Seat Altea 2010 Fuse Box The fuse box is located under the instrument panel behind the cover on the driver's side. Engine compartment fuse box location: Fuse Box Diagram | Layout. SEAT Fuse & Relay Diagram. PDF Download - Volkswagen Here you will find SEAT fuse box diagrams, Relay and Fitting locations: SEAT Arona, Ateca, Alhambra, Ibiza / Cordoba, Toledo / Altea, Leon, Arosa, Inka, ... The End of the Affair Set in London during and just after the Second World War, the novel examines the obsessions, jealousy and discernments within the relationships between three ... The End of the Affair (1999 film) The End of the Affair is a 1999 romantic drama film written and directed by Neil Jordan and starring Ralph Fiennes, Julianne Moore and Stephen Rea. The End of the Affair by Graham Greene "The End of the Affair" is about a writer named Maurice Bendrix. Maurice is a very jealous man. This is quite ironic because he is jealous of Sarah, the married ... End of the Affair, The (The Classic Collection) The End of the Affair, set in London during and just after World War II, is the story of a flourishing love affair between Maurice Bendrix and Sarah Miles. The End of the Affair (1955) In WW2 London, a writer falls in love with the wife of a British civil servant but both men suspect her of infidelity with yet another man. The End of the Affair eBook : Greene, Graham: Kindle Store The book is an excellent psychological study of Sarah and her life changing decisions and their effect on Bendrix, Henry and another important character, Smythe ... No 71 - The End of the Affair by Graham Greene (1951) Jan 26, 2015 — Graham Greene's moving tale of adultery and its aftermath ties together several vital strands in his work, writes Robert McCrum. The End of the Affair | Graham Greene, 1955, Catholic faith The novel is set in wartime London. The narrator, Maurice Bendrix, a bitter, sardonic novelist, has a five-year affair with a married woman, Sarah Miles. When a ... Graham Greene: The End of the Affair The pivotal moment of Graham Greene's novel The End of the Affair (1951) occurs in June 1944 when a new form of weapon strikes home: the V-1, the flying ... The End of the Affair Based on a novel by Graham Greene, this is a romantic drama set during World War II that is in many ways a standard love triangle involving a guy, his best ...