

Unit 4: Laboratory Techniques and their Application

Assignment C: Exploring manufacturing techniques and testing methods for an organic solid

P5 – Correctly prepare and test the purity of an organic solid and draw conclusions

The Preparation of Aspirin

Introduction – What is Aspirin?

Aspirin is a synthetic drug most commonly used in the United Kingdom, with the UK producing over 4 million tablets per year. The most common use of this tablet is to reduce fever symptom such as a cold or headache, it can also be prescribed to be used to reduce the chances of a heart attack. Aspirin is also commonly known as acetylsalicylic acid.

Formula of Aspirin – $C_9H_8O_4$

Aim

The aim of this experiment to produce aspirin a viable number of aspirin which can be filtered, and then I should be able to test the purity by testing its melting point, the preparation of the aspirin is the first step before testing the purity.

Equipment

Safety –

- Goggles – Protect eyes and face from possible chemical splashes.
- Lab coat – Buttoned up – to protect torso and clothes from contamination.
- Gloves – Reduces the exposure to the chemicals being used.

Experiment –

- 100g of 2-hydroxybenzenecarboxylic acid (OH- group – attached to the benzene ring)
- 100 ml of Ethanoic anhydride
- Concentrated sulphuric acid – this will act as the catalyst for this reaction.
- 100cm³ conical flask
- Spatula – Used to transfer the solid.

Unit Assignment Applications

Patrick Vollmar



Unit Assignment Applications:

Theory and Applications of Satisfiability Testing - SAT 2007 Joao Marques-Silva, Karem A. Sakallah, 2007-06-30 This book constitutes the refereed proceedings of the 10th International Conference on Theory and Applications of Satisfiability Testing SAT 2007 held in Lisbon Portugal in May 2007 The 22 revised full papers presented together with 12 revised short papers and two invited talks cover all current research issues in propositional and quantified Boolean formula satisfiability testing

Manual of Patent Examining Procedure United States. Patent and Trademark Office, 1998 *Personnel*, 1984

Student Engagement and Participation: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources, 2017-06-19 The delivery of quality education to students relies heavily on the actions of an institution's administrative staff Effective teaching strategies allow for the continued progress of modern educational initiatives Student Engagement and Participation Concepts Methodologies Tools and Applications provides comprehensive research perspectives on the multi faceted issues of student engagement and involvement within the education sector Including innovative studies on learning environments self regulation and classroom management this multi volume book is an ideal source for educators professionals school administrators researchers and practitioners in the field of education

Handbook for Grants Assistants National Institutes of Health (U.S.). Division of Research Grants. Referral and Review Branch, 1987 **Resources in education**, 1984-02 **Code of Federal Regulations**, 1995 Special edition of the Federal Register containing a codification of documents of general applicability and future effect with ancillaries *Assignment of Airborne Officers and Processing Volunteers for Training* United States. Department of the Army, 1989 **Manual of**

Patent Examining Procedure, 2004 **United States of America V. Laird**, 1971 **Official Gazette of the United States Patent and Trademark Office**, 1998 *Official Gazette of the United States Patent and Trademark Office* United States. Patent and Trademark Office, 1999 *AR 135-7 04/15/1996 INCENTIVE PROGRAMS*, Survival Ebooks Us

Department Of Defense, www.survivalebooks.com, Department of Defense, Delene Kvasnicka, United States Government US Army, United States Army, Department of the Army, U. S. Army, Army, DOD, The United States Army, AR 135 7 04 15 1996 INCENTIVE PROGRAMS Survival Ebooks **Personnel: Personnel concept III, end users manual** United States.

Department of the Air Force, 1992 **Intellectual Property Legal Opinions** Thronson, Roth, Grossman, 1997 **Theory and Application of Satisfiability Testing** Karem A. Sakallah, Laurent Simon, 2011-06-11 This book constitutes the refereed proceedings of the 14th International Conference on Theory and Applications of Satisfiability Testing SAT 2011 held in Ann Arbor MI USA in June 2011 The 25 revised full papers presented together with abstracts of 2 invited talks and 10 poster papers were carefully reviewed and selected from 57 submissions The papers are organized in topical sections on complexity analysis binary decision diagrams theoretical analysis extraction of minimal unsatisfiable subsets SAT algorithms quantified Boolean formulae model enumeration and local search and empirical evaluation **AR 635-200 06/06/2005 ACTIVE**

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