

CLEAPSS advice on handling liquid nitrogen in schools

(<http://www.cleapss.org.uk/>)

This is an extract from Section 11 of the CLEAPSS Laboratory Handbook which is supplied to all member secondary schools and colleges (but not to primary schools) on the CLEAPSS Science Publications CD-ROM and on paper.

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|---|--|---|
| m | Liquid nitrogen | <p>The use of liquid nitrogen allows exciting and thought-provoking demonstrations but there are significant hazards, the risks from which must be controlled. They are:</p> <ul style="list-style-type: none">• asphyxiation in oxygen-deficient atmospheres;• fire in oxygen-enriched atmospheres;• cold burns, frost bite & hypothermia from the intense cold;• over-pressurisation from the large volume expansion of the liquid;• manual-handling accidents if using large (25 litre) volumes. <p>There are also risks associated with the transport of liquid nitrogen.</p> |
| m | Asphyxiation in oxygen-deficient atmospheres | <p>Small amounts (not exceeding 2 litres) of liquid nitrogen can be safely used in school laboratories, without risk of asphyxiation. It would be prudent to ensure good ventilation. However, if liquid nitrogen is kept in preparation rooms, stores and other confined spaces, these must be ventilated as much as possible. In the event of a spill in a confined space, the room should be evacuated. If liquid nitrogen has been kept in a confined space, when retrieving it, a second person should be present in case of asphyxia.</p> |
| m | Fire in oxygen-enriched atmospheres | <p>The boiling point of oxygen is -183°C, higher than that of nitrogen, -196°C. Liquid nitrogen may condense liquid oxygen from the surrounding air. Substances will burn more fiercely and ignite. Provided that the quantities of liquid nitrogen are small (eg, 2 litres) there is not much risk of significant oxygen enrichment. Never leave a test tube, or any other container surrounded by liquid nitrogen, for long periods.</p> |
| m | Cold burns, frost bite and hypothermia from the intense cold | <p>When handling liquid nitrogen, eye protection (preferably goggles or a face shield) must be worn as well as non-absorbent, leather gloves. Shoes and gloves need to be easily removable but open-toed shoes should not be worn. Demonstrators need to be vigilant about the possibility of splashes of liquid nitrogen becoming entrapped in clothing, etc.</p> |
| m | Over-pressurisation from the large volume expansion of the liquid | <p>2 litres of liquid nitrogen will become 1366 litres of gaseous nitrogen. In an enclosed vessel this will give rise to a huge increase in pressure. Because liquid nitrogen is cold, it will condense any moisture in the atmosphere, possibly forming an ice plug which may seal an open vessel, causing the pressure to build up. To our knowledge this has caused at least two explosions in schools/colleges. Liquid nitrogen must be transported, kept and used only in a vented Dewar flask, specially designed for cryogenic work. Do not, under any circumstances, use ordinary vacuum flasks. (Suitable small Dewars are available for less than £100 (2005 prices), eg, from Camlab.</p> |
| m | Transport of liquid nitrogen | <p>Under the <i>Transportable Pressure Vessels Regulations</i>, liquid nitrogen must only be transported in vessels which are suitable for this purpose (see above). Open vessels are not suitable, because of the risk of splashing and spills.</p> <p>If liquid nitrogen is transported by road, the <i>Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations</i> require that the driver shall have had special training. The BCGA Code of Practice CP30 <i>The Safe Use of Liquid Nitrogen Dewars up to 50 litres</i> (British Compressed Gases Association, 2000) states that Dewars must be transported separately from driver or passengers. Flat-back pick-ups, trailers or vehicles fitted with a separating bulkhead should be used. These two requirements mean it is unlikely that schools will be able to obtain free supplies from a</p> |

Cleapss Laboratory Manual

Jan Rees

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author's name.

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CLEAPSS Laboratory Handbook CLEAPSS School Science Service, **Aspects of Teaching Secondary Science** Sandra Amos, Richard Boohan, 2003-09-02 This book's structure reflects the different dimensions to learning science. The first section focuses on the importance of talk in the science classroom while the second explores the key role of practical work. The third section is concerned with the creative theoretical aspect of science. Section four follows this by considering the communication of ideas and how pupils learn to participate in the discourse of the scientific community. Section five emphasizes the place of science in the broader context considering its moral and ethical dimensions and its place in a cultural context. Finally, section six explores the complexity of the task faced by science teachers highlighting the knowledge and skills science teachers must acquire in order to create an environment in which students are motivated to learn science.

CLEAPSS School Science Service Laboratory Handbook CLEAPSS School Science Service, 1989* **That's Chemistry!** Jan Rees, 2000 That's Chemistry is a concise manual of ideas, activities and investigations about the science of materials and their properties for teachers to use with primary age children. All experiments in this book have been trialled in schools. It is designed for both specialist and non-specialist primary teachers to encourage interest and enthusiasm in a new generation of scientists.

Advanced GNVQ Science M. W. Brimicombe, 1995 This is a student resource book covering the eight mandatory units and core skills at Advanced Level. Developed in association with the RSA Examinations Board, it provides information and techniques to support assignments, case studies to illustrate real life science and exemplar assignments.

The School Science Review, 2007 **Salter's Higher Chemistry** Gwen Pilling, 1999 This work is the accompanying teacher's book to the student book and gives the answers to all the questions in the student book together with details of how the student book delivers all the content statements in Higher chemistry.

Health, Safety and Risk Dorothy Warren, 2001 Health Safety and Risk has been produced in order to help teachers bring about a better understanding of these concepts in their students so that they can be properly aware of the risks associated with the world in which they live and how to minimise them.

Chemists in a Social and Historical Context Dorothy Warren, 2001 This book focuses on strategies for teaching about people in chemistry and is an introduction to some chemists who played a role in the development of major ideas in the subject.

Paracetamol Frank Ellis, 2002 First made in the late 19th century, paracetamol is now widely used in a variety of pharmaceutical products. It is used as a painkiller and to reduce the temperature of patients with a fever. Aimed at post-16 students, this book provides a series of classroom activities both written and practical relating to paracetamol. The activities can be carried out singly or as a coherent package and are supported by a guide for teachers and technicians.

Laboratory Manual for Principles of General Chemistry Jo Allan Beran, 1999-11-17 This flexible lab manual, appropriate for use with a wide range of general chemistry books, offers a wealth of practical chemistry experiments. It includes pertinent information on rules and safety in the lab. Preparation of the new

edition was guided by specific feedback from users *Laboratory Manual for Principles of General Chemistry* J. A. Beran, 2013-12-12 A two term manual for General Chemistry This supplementary manual focuses on chemical principles and techniques The *Laboratory Manual for Principles of General Chemistry* tenth edition provides a broad scope of experiments coupled with a clear layout for ease of use The manual delivers material for two or three course terms It also assists chemistry students in knowing how to time various techniques in the lab environment The companion manual is organized into topic sections such as Chemical and Physical Properties Atomic and Molecular Structure Gases and Solutions **A Laboratory Manual for Schools and Colleges** John Creedy, 1977 **Laboratory Manual for Introductory Chemistry** Charles H. Corwin, 2018-01-05 For lab courses in introductory preparatory and basic chemistry Prepare introductory chemistry students for laboratory and provide a safe experience Emphasizing environmental considerations Corwin's acclaimed *Laboratory Manual for Introductory Chemistry* offers a proven format of a pre laboratory assignment a stepwise procedure and a post laboratory assignment More than 500 000 students to date in Introductory Chemistry Preparatory Chemistry and Allied Health Chemistry have used these experiments successfully The 7th Edition continues to evolve with increased sensitivity to environmental and safety concerns in the laboratory Recycle icons in the margin of each procedure alert students to recycle chemical waste and green chemical indicators remind students to use the appropriate waste containers provided to dispose of chemicals Corwin's lab manual can be packaged with any Pearson Intro Prep Chemistry book **Laboratory Manual for Principles of General Chemistry** Foster, 2004-01-01 **General Chemistry Laboratory Manual and Notebook** Philip Borer, 2019-05-28 *Laboratory Manual of Physical Chemistry (Classic Reprint)* Albert Watson Davison, 2017-09-16 Excerpt from *Laboratory Manual of Physical Chemistry* In view of the fact that there are as a rule available for laboratory work not more than two and one half hours at a time it has been found desirable to have the different pieces of apparatus set up beforehand by the instructor To this end each experiment is preceded by an exact list of the apparatus and chemicals needed It is believed that this will materially aid the instructor in assembling the necessary equipment At the Rensselaer Polytechnic Institute the laboratory course immediately follows the completion of the theoretical course in physical chemistry and students are thus prepared to take up the study of any experiment herein listed It is therefore found practical to prepare the equipment for one or two units of each exercise before the laboratory course starts and to shift the student successively from one experiment to another In this way an excessive amount of preparatory work is avoided Many of the experiments have been in use in their present form at this Institute and elsewhere for a number of years and have been found to be thoroughly satisfactory About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books Find more at www.forgottenbooks.com This book is a reproduction of an important historical work Forgotten Books uses state of the art technology to digitally reconstruct the work preserving the original format whilst repairing imperfections present in the aged copy In rare cases an imperfection in the original such as a blemish

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Table of Contents Cleapss Laboratory Manual

1. Understanding the eBook Cleapss Laboratory Manual
 - The Rise of Digital Reading Cleapss Laboratory Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Cleapss Laboratory Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Cleapss Laboratory Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Cleapss Laboratory Manual
 - Personalized Recommendations
 - Cleapss Laboratory Manual User Reviews and Ratings
 - Cleapss Laboratory Manual and Bestseller Lists

5. Accessing Cleapss Laboratory Manual Free and Paid eBooks
 - Cleapss Laboratory Manual Public Domain eBooks
 - Cleapss Laboratory Manual eBook Subscription Services
 - Cleapss Laboratory Manual Budget-Friendly Options
6. Navigating Cleapss Laboratory Manual eBook Formats
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7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Cleapss Laboratory Manual
 - Highlighting and Note-Taking Cleapss Laboratory Manual
 - Interactive Elements Cleapss Laboratory Manual
8. Staying Engaged with Cleapss Laboratory Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Cleapss Laboratory Manual
9. Balancing eBooks and Physical Books Cleapss Laboratory Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Cleapss Laboratory Manual
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Cleapss Laboratory Manual
 - Setting Reading Goals Cleapss Laboratory Manual
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Cleapss Laboratory Manual
 - Fact-Checking eBook Content of Cleapss Laboratory Manual
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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