

AP Chemistry: A Sample Formal Laboratory Report

This paper is designed to help you prepare a chemistry lab report. Keep it in your chemistry notebook. All chemistry lab reports must be written neatly and well organized to receive full credit. Lab reports may be written or typed. It is highly recommended that you use graph or engineering bond paper for written reports.

Laboratory #7: Quantitative Determination of an Empirical Formula

I. Hypothesis: If nitric acid is poured onto tin, a tin oxide will be produced. If we know the initial mass of the tin metal and the mass of the final product, we can determine the empirical formula of the tin oxide product. There should be a whole number ratio between oxygen and tin. *(The hypothesis explains what is to be tested and will be written after reading the entire laboratory worksheet.)*

II. Equipment: *(Non-chemical equipment used in the experiment.)*
evaporating dish
watch glass
stirring rod
burner with ring stand, ring and wire gauze
forceps
beaker
balance

III. Reagents: *(A listing of chemicals used in the experiment with their amounts and any warnings.)*
tin metal (granulated) ~2 g.
5 cm³ (mL) nitric acid (HNO₃) **caution! severe burns**

IV. Procedure: Each step of the procedure must be written here. You may paraphrase and shorten the explanations, but the reader must be able to perform the experiment from these instructions. *(The procedure must be read carefully before the lab begins. Drawings of the experimental setup may be included here. The teacher may make changes to the procedure; make sure that you write any changes down!)*

V. Data: *(If the laboratory report is handwritten use a ruler to draw data tables and graphs! Always include units with all data entries.)*

	Procedure	Trial 1	Trial 2
a	mass of dish, and watch glass	74.14 g	
b	mass of dish, glass and tin	76.20 g	
c	mass of tin =b-a	2.06 g	
d	moles of tin	.0173 mol	
e	mass of dish, glass, and product	76.76 g	
f	mass of oxygen =e-b	.56 g	
g	moles of oxygen	.0350 mol	
h	mole ratio	2.02 : 1	
i	accepted ratio	2 : 1	
j	% error	1.00 %	

Sample Chemistry Laboratory Report

SJ Ball



Sample Chemistry Laboratory Report:

Addison-Wesley Chemistry Laboratory Manual Dennis D. Staley,1995 Sampliny and Analysis of Rain S.A. Campbell,1981 *Combined Compilation of Meat and Poultry Inspection Issuances for ...* ,1991 **Science Educator's Guide to Laboratory Assessment** Rodney L. Doran,2002 The book opens with an up to date discussion of assessment theory research and uses Then comes a wealth of sample assessment activities in biology chemistry physics and Earth science Keyed to the National Science Education Standards the activities include reproducible task sheets and scoring rubrics All are ideal for helping students reflect on their own learning during science lab **Embankment Dam Instrumentation Manual** Charles L. Bartholomew,1987 **Report** United States. Congress. House,1939 **Scientific and Technical Aerospace Reports** ,1995-05 *Report* National Center for Radiological Health (U.S.). Interlaboratory Technical Advisory Committee,1965 **NTP GMM.** ,2005 *Compilation of Meat and Poultry Inspection Issuances* ,1985-11 *Water-resources Investigations Report* ,2003 *Consolidated Annual Report on State and Territorial Public Health Laboratories* ,1975 **Reports of Committee D-1 on Preservation Coatings for Structural Materials, 1903-1914** American Society for Testing Materials. Committee D-1 on Paint, Varnish, Lacquer, and Related Products,1914 **Semiannual Report to the Congress** United States. Environmental Protection Agency. Office of the Inspector General,1990 *The Basic Practice of Statistics* David S. Moore,2010 This is a clear and innovative overview of statistics which emphasises major ideas essential skills and real life data The organisation and design has been improved for the fifth edition coverage of engaging real world topics has been increased and content has been updated to appeal to today s trends and research **Quality Assurance Representative's Guide** ,1992 **Annual Reports of Officers, Boards, and Institutions of the Commonwealth of Virginia, for the Year Ending September 30 ...** Virginia,1928 Manual for the Certification of Laboratories Analyzing Drinking Water ,1982 **Forensic Toxicology** Nicholas T. Lappas,Courtney M. Lappas,2021-10-22 Selected for Doody s Core Titles 2024 in Toxicology The second edition of Forensic Toxicology Principles and Concepts takes the reader back to the origins of forensic toxicology providing an overview of the largely unchanging principles of the discipline The text focuses on the major tenets in forensic toxicology including an introduction to the discipline principles of forensic toxicology including pharmacokinetics pharmacodynamics drug interactions and toxicogenomics fundamentals of forensic toxicology analysis types of interpretations based on analytical forensic toxicology results and reporting from the laboratory to the courtroom Also included in the second edition is a Unit focused on the forensic toxicology of individual drugs of abuse Includes significant emphasis on the fundamental principles and concepts of forensic toxicology Provides students with an introduction to the core tenets of the discipline focusing on the concepts strategies and methodologies utilized by professionals in the field Coauthored by a forensic toxicologist with over 40 years of experience as a professor who has taught graduate courses in forensic and analytical toxicology and who has served as a

consultant and expert witness in civil and criminal cases **For All Practical Purposes** Consortium for Mathematics and Its Applications (U.S.), 2003 The sixth edition of the acclaimed classroom favorite offer a number of new features to help instructors strengthen the mathematical literacy of their students

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