ADVANCED HONORS CHEMISTRY - CHAPTER 13 NAME: STATES OF MATTER DATE: MANOMETER PROBLEMS WKST - ANSWERS - V5 PAGE:

- 1. In the diagram below h is 15 mm Hg.
 - A. What is the pressure of the gas sample in mm Hg?
 - B. What is the pressure of the gas sample in kPa?

DATA TABLE		
h=15 mm Hg	P _{Gan Sample} = ?	

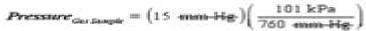
This is a close-ended manometer problem. .. The height of the Hg is the gas pressure.

Pressure Gas Sample = Height of the Hg



$$P_{Gas Sample} = 15 \text{ mm Hg}$$

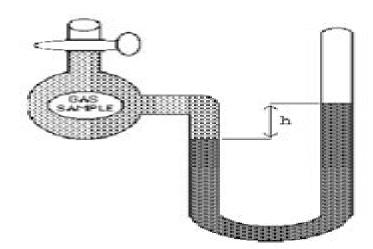




$$\frac{760 \text{ mm Hg}}{101 \text{ kPa}} = \frac{15 \text{ mm Hg}}{x}$$

$$\frac{760 \text{ mm-Hig}}{15 \text{ mm-Hig}} = \frac{101 \text{ kPa}}{x}$$

$$P_{Gas\ Sample} = 2.0 \text{ kPa}$$



Manometer Problems Answers

J R Backhurst,J H Harker,J.F. Richardson

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A Brief Introduction to Fluid Mechanics Donald F. Young, Bruce R. Munson, Theodore H. Okiishi, Wade W. Huebsch, 2010-11-23 A Brief Introduction to Fluid Mechanics 5th Edition is designed to cover the standard topics in a basic fluid mechanics course in a streamlined manner that meets the learning needs of today s student better than the dense encyclopedic manner of traditional texts This approach helps students connect the math and theory to the physical world and practical applications and apply these connections to solving problems The text lucidly presents basic analysis techniques and addresses practical concerns and applications such as pipe flow open channel flow flow measurement and drag and lift It offers a strong visual approach with photos illustrations and videos included in the text examples and homework problems to emphasize the practical application of fluid mechanics principles Fluid Mechanics Joseph H. Spurk, 1997-07-07 This collection of over 200 detailed worked exercises adds to and complements the textbook Fluid Mechanics by the same author and at the same time illustrates the teaching material via examples The exercises revolve around applying the fundamental concepts of Fluid Mechanics to obtain solutions to diverse concrete problems and in so doing the students skill in the mathematical modelling of practical problems is developed In addition 30 challenging questions WITHOUT detailed solutions have been included While lecturers will find these questions suitable for examinations and tests students themselves can use Dr. Salm's Chemistry Problem Drill Book Robert J. Salm, Robert J. them to check their understanding of the subject Salm Robert J. Salm Ph.D., 2005 This drill book contains many common problem types that are asked in General Chemistry classes in High School and College This work will give you practice with the major problem types as you prepare for finals and standardized tests Chemical Engineering: Solutions to the Problems in Volume 1 J R Backhurst, J H Harker, J.F. Richardson, 2013-10-22 This volume in the Coulson and Richardson series in chemical engineering contains full worked solutions to the problems posed in volume 1 Whilst the main volume contains illustrative worked examples throughout the text this book contains answers to the more challenging questions posed at the end of each chapter of the main text These questions are of both a standard and non standard nature and so will prove to be of interest to both academic staff teaching courses in this area and to the keen student Chemical engineers in industry who are looking for a standard solution to a real life problem will also find the book of considerable interest An invaluable source of information for the student studying the material contained in Chemical Engineering Volume 1 A helpful method of learning answers are explained in full

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