

## *Butane Lab Answers*

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**Butane Lab Answers**

I am trying to do the calculations for my chemistry lab, I seem to be having trouble. Water Temp: 311K Barometric Pressure: 0.98 atm Volume Gas Collected: 0.125 L Initial Mass of the lighter: 21g Final Mass of the lighter: 20 g Vapor Pressure: 0.065 atm Partial Butane Gas Volume: 0.915 atm I think the volume of butane gas is: 0.104 L Assuming butane is an ideal gas, using avogadro's number ...

**Help With Butane Lab Calcs? | Yahoo Answers**

Lab - The Molar Mass of Butane Gas, C<sub>4</sub>H<sub>10</sub> Date \_\_\_\_ Purpose: To experimentally determine the molar mass of butane gas. Materials: Thermometer, Big Water Bucket, Funnel, Butane lighter, 50 mL or 100 mL graduated cylinder, Balance ... Lab - Butane Lab Sample Calculations Author:

**Lab - Butane Lab Sample Calculations**

The reason why the butane appears as a liquid inside the lighter is due to the fact that the gas is placed in its containing body under very high pressure which causes a phase change in the butane from a gas to a liquid. The opposite occurs as the butane is released.

**Butane Lab - AP Chemistry Lab Reports**

Lab: Determining the Molar Mass of Butane Introduction In many laboratory settings, a gas must be collected for study. There are several ways of collecting and storing gases and the preferred method will vary according to the gas being collected and the purpose for which it is needed. In many occasions, chemists collect gases over water.

**Determining the Molar Mass of Butane**

Answer to BUTANE LAB DATA: 1. initial mass of the butane lighter: 16.908g. 2. final mass of the butane lighter: 16.280g. 3. mass o...

**Solved: BUTANE LAB DATA: 1. Initial Mass Of The Butane Lig ...**

T represented the temperature of the butane (the temperature of the butane was assumed to be equivalent to the temperature of the water) in kelvin which can be found by adding the measurement in step 5 by 273. 16) The molar mass of the butane can be found by dividing the mass of the butane (found in step 12) by the result in step 15.

**Butane Lab - AP Chemistry Labs**

Your answer is quite higher than the molecular weight of butane. That's really not a big issue. I can't remember many times I did a lab like this and my final calculation came out to what was expected. Sometimes you'll be completely off. Failure is expected and that's okay.

**Hello Chemhelp, I am having a problem with a lab report ...**

Gas Laws and the Molar Mass of Butane CHEM 30A The Erlenmeyer flask is initially full of water. The butane gas bubbles released from the butane cylinder displace the water in the flask, lowering the water level inside the flask (and raising the water ... the lab room P total (inside) ...

**Gas Laws and the Molar Mass of Butane - Cabrillo College**

In conclusion, there were 4950495.05g/mole of butane. This calculation must be wrong because that is a very high number for the molarity of butane. This could be due to other gases being present in the lighter that skewed the results. The calculations seemed to be correct up until the final molarity was calculated.

**Butane Lab - AP Chemistry**

Initial mass - final mass = mass of butane gas Therefore, based on the experimental value for the molar mass of butane gas, the chemical formula is C<sub>3</sub>H<sub>8</sub>. However, based on extensive research it is known that C<sub>4</sub>H<sub>10</sub> is the correct chemical formula for butane gas.

**Molar Mass of a Gas Lab by Stuti on Prezi**

MOLAR MASS OF BUTANE DETERMINED EXPERIMENTALLY Reminder – Goggles must be worn at all times in the lab! PRE-LAB DISCUSSION: In this particular lab, we are going to try to determine the molar mass of butane,  $C_4H_{10}$ , experimentally. A simple calculation using a periodic table would give us the correct answer for the molar mass of butane, but

**Molar Mass of Butane 2017 - ScienceGeek.net**

Molar Mass of Butane continue 3 21 linn identifi n All ights esere Materials for Molar Mass of Butane—Applying the Gas Laws are available from Flinn Scientific, Inc. Catalog No. Description AP8334 Pneumatic Trough AP1884 Barometer, Aneroid AP6367 The Gas Laws, Flinn ChemTopic™ Labs, Volume 9 Consult the Flinn Scientific website for current prices.

**Molar Mass of Butane - Flinn Scientific**

Lab Hints. Corrections for water vapor pressure and for the difference in internal and external pressure by equalizing levels are required. ... Determine the empirical formula of butane based on your data. Answers to Closure Questions: Bubbles entering the gas tube before the butane was added; lost bubbles of butane during filling of the gas ...

**Determining the Molar Mass of Butane**

Avogadro's law, Dalton's law, and the ideal gas law—show how these gas laws can be applied to determine the molar mass of butane.

**Molar Mass of Butane - Flinn Scientific**

The calculated molar mass of the gas should have the average molar mass of the entire gas, including butane. Therefore, other gases should have higher molar mass to balance butane's molar mass of 58 g/mole to 66.6 g/mole. 6. In this lab, we have referred to the gas inside the lighter.

**Butane Lab - AP Chemistry**

Initial mass of butane lighter= 19.2 g Final mass of butane lighter=19.1 g Mass of butane released=0.1 g (c)Combine the  $pV=nRT$  and  $n=m/M$  to solve for molar mass,  $M$ .  $M = mRT/PV$ .????  
 $M = (d)$  Using your answers to (b) and (c), answer the question by calculating the molar mass of butane according to your evidence. ... Have a lab and its calculating ...

**have a lab and its calculating the molar mass of Butane ...**

AP Chemistry - Molar Mass of Butane Lab . Introduction: The molar masses of compounds are used daily in the chemistry profession. Molar mass is defined as the mass, in grams, of 1 mole of any element or compound. So how is molar mass determined and how is the molar mass of an unknown found? In this experiment, the molar mass of butane,  $C_4H_{10}$

**AP Chemistry - Molar Mass of Butane Lab**

The molar mass of butane is 58.12 g/mol but when calculated the molar mass was 67.0 g/mol. This shows that there must have been other gases besides just butane in the lighter fluid. These other are predicted to have a larger molar mass than butane because the gases make up a difference of about 8.88 g/mol in the molar mass. 6.

**Butane Lab - AP Chemistry Labs**

1. Based on the calculations, the molar mas of the gas is 248.942 grams/mole. 2. A possible formula for the gas could be  $C_{19}H_{21}$ . This is determined by using the standard molar masses for carbon and hydrogen, and finding a ratio that adds up to the calculated molar mass of butane.

**Butane Lab - AP Chemistry Krebs 2012-2013**

Butane is very flammable. NO FLAMES should be used in the room while this experiment is in progress. This includes striking "strickers", lighting matches, rolling the wheel on the lighters, etc. Butane gas is toxic, it will be released through the hood or outdoors. Wear safety goggles at all times during this lab! Procedure: 1.

## Butane Lab Answers

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