
Molar Mass Worksheet Answers

molar mass worksheet - nclark - molar mass worksheet calculate the molar mass of the following chemicals: 1) Cl_2 2) KOH 3) BeCl_2 4) FeCl_3 5) BF_3 6) CCl_2F_2 7) $\text{Mg}(\text{OH})_2$ 8) UF_6 9) SO_2 10) H_3PO_4 11) $(\text{NH}_4)_2\text{SO}_4$ 12) CH_3COOH 13) $\text{Pb}(\text{NO}_3)_2$ 14) $\text{Ga}_2(\text{SO}_3)_3$ **molar mass worksheet - everett community college** - molar mass worksheet w 339 everett community college tutoring center student support services program find the molar masses of the following compounds: 1) LiI 2) PbCO_3 3) $\text{Mg}(\text{OH})_2$ 4) K_3PO_4 5) $(\text{NH}_4)_3\text{PO}_4$ 6) $\text{C}_6\text{H}_{12}\text{O}_6$ 7) $\text{Fe}_2(\text{SO}_4)_3$ 8) Na_3PO_9 9) AgF 10) $\text{NH}_4\text{C}_2\text{H}_3\text{O}_2$ **molar mass worksheet answer key - riverdell** - molar mass worksheet ... "molar mass" is used to describe the mass of one mole of a chemical compound, while "atomic mass" is used to describe the mass of one mole of an element or the mass of one atom of an element. 8) which is a better unit for expressing molar mass, "amu" or "grams/mole"? ... **ws molar mass - saddleback college** - molar mass worksheet and key for the following compounds, write the chemical formula and determine the molar mass. write the units! water carbon dioxide sodium chloride calcium hydroxide potassium permanganate (KMnO_4) sodium carbonate barium nitrate hydrogen monochloride sulfuric acid (H_2SO_4) acetic acid ($\text{C}_2\text{H}_4\text{O}_2$) see next page for key **molar mass name chem worksheet 11-2** - what is its molar mass? 7. find the molar mass of acetylene C_2H_2 , the gas used in welding torches. 8. vinegar contains acetic acid, $\text{HC}_2\text{H}_3\text{O}_2$. what is the molar mass of this substance? 9. what is the molar mass of magnesium sulfate, MgSO_4 ? 10. find the molar mass of phosphorus pentachloride, PCl_5 . 11. bromine is diatomic. find the molar ... **molar mass practice worksheet - my chemistry class** - solutions to the molar mass practice worksheet: important note to students: all of the units given here are "grams per mole", which may be abbreviated as "g/mol", "grams/mol", or "g . mol⁻¹", depending on how your teacher likes to see it written. they all mean the same thing, but it's **chemistry computing formula mass worksheet** - find the formula mass of the following compounds. round atomic masses to the tenth of a decimal place. place your final answer in the formula mass column. chemistry computing formula mass worksheet problem set-up example: find the formula mass of $\text{Ca}(\text{NO}_3)_2$ ca: $1 \times 40.1 = 40.1$ n: $2 \times 14.0 = 28.0$ o: $6 \times 16.0 = 96.0$ **mole calculation worksheet - sheffieldschools** - 1 mole = molar mass (could be atomic mass from periodic table or molecular mass) 1 mole = 22.4 l of a gas at stp (you do not need to worry about this yet) each definition can be written as a set of two conversion factors. they are: ... mole calculation worksheet ... **gas law's worksheet - willamette leadership academy** - chemistry gas law's worksheet 20. determine the molar mass of a gas that has a density of 2.18 g/l at 66°C and 720 mm hg. (hint: the number of moles of a substance is its mass/molecular mass and density is mass/volume.) 19. what is the pressure in atm exerted by 2.48 moles of a gas in a 250.0 ml container at 58°C? 18. **mole calculation worksheet - nclark** - mole calculation worksheet 1) how many moles are in 15 grams of lithium? 2) how many grams are in 2.4 moles of sulfur? 3) how many moles are in 22 grams of argon? 4) how many grams are in 88.1 moles of magnesium? 5) how many moles are in 2.3 grams of phosphorus? 6) how many grams are in 11.9 moles of chromium? **mole worksheet - mmsphyschem** - mole worksheet use two decimal places for the molar masses and report your answer to the correct ... three times the molar mass of b (d) 4.8 times the formula mass of b 9) the atoms of element a are one-third as heavy as the atoms of c-12. the molar mass of a is: (a) 36.00 g **mole to grams, grams to moles conversions worksheet** - mole to grams, grams to moles conversions worksheet what are the molecular weights of the following compounds? 1) NaOH 2) H_3PO_4 3) H_2O 4) Mn_2Se_7 5) MgCl_2 6) $(\text{NH}_4)_2\text{SO}_4$ there are three definitions (equalities) of mole. they are: 1 mole = 6.02×10^{23} particles 1 mole = molar mass (could be atomic mass from periodic table or molecular mass) **worksheet 7 - ideal gas law i. ideal gas law ideal gas law ...** - the ideal gas law can be re-arranged to calculate the molar mass of unknown gases. $pV = nRT$ $n = \frac{\text{mass (g)}}{\text{molar mass (g/mol)}}$ $pV = \frac{\text{mass (g)}}{\text{molar mass}} \times R \times T = \text{molar mass} \times \frac{\text{mass}}{p \times V}$ knowing that the units for density are mass/volume, re-write this equation so that it equates density with molar mass. **worksheet #13 using avogadro's number and molar masses (2p.)** - worksheet #13 using avogadro's number and molar masses (2p.) 1 in these problems the compound (or chemical formula) becomes part of the unit: (e.g. 32.54g nacl) 1. calculate the molar mass of each of the following compounds: **mole & molar worksheet - annville-cleona school district** - mole & molar worksheet for math problems, show all your work, including correct units and sig figs. 1. what atom is used as the standard in the relative scale for atomic masses? 2. what is the assigned mass of this atom in atomic mass units (amu's)? 3. what is the atomic mass of an atom if its mass is approximately equal to the following? a. **mole conversions worksheet #1 - my chemistry class** - mole conversions worksheet #1 1. mole -> mass conversions - using molar mass of each substance, convert the following quantities. a. 10.0 mol cr 520 g f. **worksheet: mole problems name - worksheet: mole problems name** ... part 1: molar mass use the periodic table to find the molar masses of the following. hcl k₂co₃ ca(oh)₂ na₃po₄ part 2: mole conversions work each of the following problems. show all work. ... what is the mass of 9.30 moles of sih₄? 8. convert 8.00 x 10²⁰ molecules of h **molar mass of butane - flinn scientific** - molar mass of butane continue 3 21 linn ientifi 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. **the ideal gas law, molar mass, and density** - the

ideal gas law, molar mass, and density there are several relationships between the temperature, pressure, the number of moles and the volume of gases. boyle's law says at constant temperature, the volume and pressure of a sample of gas are inversely proportional [v % 1/p]. charles law says at constant pressure, the volume

chemistry moles packet - chino valley unified school district - chemistry moles packet page 3 chemistry worksheet # 1 molar mass (gram molecular/formula weights) we know that grams are actually a measure of the mass of matter and not the weight. mass is the quantity of matter present; weight is a measure of the pull of gravity on matter and is measured in pounds or newtons. ... **molar mass worksheet - courses - 3.**

determine the mass in grams of: 5.00×10^{-2} mol CO_2 5.00×10^{25} molecules

4. suppose you have 100.0 g sample of each of the following compounds: NH_3 , MgCl_2 . which sample contains the smallest number of moles?

5. one molecule of the hormone insulin has a mass of 9.5×10^{-21} g. what is the molar mass of insulin?

percent composition and molecular formula worksheet - percent composition and molecular formula worksheet

1. what's the empirical formula of a molecule containing 65.5% carbon, 5.5% hydrogen, and 29.0% oxygen?

2. if the molar mass of the compound in problem 1 is 110 grams/mole, what's the molecular formula?

3. **molar mass practice worksheet - northern highlands** - c.p. chemistry name _____ ws 4 more mole practice date _____ pd. _____ mass \leftrightarrow moles \leftrightarrow particles . molar mass practice **chapter 11 ideal gas law - chemunlimited** - chapter 11 ideal gas law worksheet 2 - density and molar mass via ideal gas law

1. what is the density of carbon tetrachloride vapor at 714 torr and 125°C ?

2. find the molar mass of a gas that has a density of 1.18g/l at 25°C and 1 atm?

3. exactly 250 ml of a gas at stp weighs 0.291g. the composition of the gas is as follows: c, 92.24%, **molar mass worksheet - chem.taysi** - molar mass worksheet name _____ remember—we can't measure atoms, so in chemistry we period __ date _____ "weigh" chemicals to count the particles. calculate the formula mass (amu) for each item. also give the molar mass (g)—this means the mass for one mole of that substance; the number is the same—just change the units to "g". ... **key - molar mass** - molar mass determine the molar mass (the mass of one mole) of each compound below. remember to include units (either amu or g/mol). hint: for hydrated compounds such as $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$, add the molar mass of the salt (CuSO_4) to the mass of the number of water molecules indicated by the coefficient ($5\text{H}_2\text{O} = 5$ water molecules).

molar mass problems - chemteam - molar mass problems

1. calculate the mass of 1.000 mole of CaCl_2

2. calculate grams in 3.0000 moles of CO_2

3. calculate number of moles in 32.0 g of CH_4

4. determine mass in grams of 40.0 moles of Na_2CO_3

5. calculate moles in 168.0 g of Hg

6. calculate moles in 510.0 g of Al_2S_3

7. how many moles are in 27.00 g of H_2O

8. **calculations+for+solutions+worksheet+and+key+ - calculations+for+solutions+worksheet+and+key+ 1)++23.5g+of+nacl+is+dissolved+in+enough+water+to+make+683l+of+solution . + a)++what+is+the+molarity+(m)+of+the+solution?+ b)++how ... mole calculations review worksheet - answers on next page.** - mole calculations review worksheet - answers on next page.

1. calculate the molar mass of each compound. a. LiOH c. $\text{Mg}(\text{C}_2\text{H}_3\text{O}_2)_2$ 2. b. barium bromide d. $\text{Ca}(\text{NO}_3)_2$

2. how many molecules are in 45.0 grams CH_4 ?

3. how many moles are in 18.8 grams NaOH ?

4. a salt shaker containing 9.58×10^4 formula units NaCl contains how many moles?

5. **molar volume calculations - hekademia** - molar volume calculations worksheet the image below summarizes the relationship that exists between the quantities and conversion factors you have learned up to this point. use either the formula or unit cancellation method to answer the following questions about conversions involving the mole. **formula mass wksht - msbunney.weebly** - chemistry 11 molar mass and formula mass assignment find the formula mass for each of the following compounds. show your work.

1. $\text{Sn}(\text{NO}_3)_2$ 2. AlBr_3 3. BaCO_3 4. NaClO_3 5. K_3PO_4

6. CH_3COOH 7. C_6H_6 8. CO_2 9. $\text{Ti}(\text{HPO}_4)_2$ 10. $\text{La}_2(\text{Cr}_2\text{O}_7)_3$

chemistry gas laws and molar volume at stp review worksheet - spi 3221.3.5 convert among the following quantities of a substance: mass, number of moles, number of particles, molar volume at stp

chemistry gas laws and molar volume at stp review worksheet

1. a balloon filled with oxygen gas occupies a volume of 5.5 l at 25 oc. what volume will the gas occupy at 100. oc?

2. **mole conversions name chem worksheet 11-3** - particles. using the periodic table we can find the molar mass, or the mass of a mole of a substance. the molar volume is the volume of a mole of substance. all gases have the same molar volume when measured at standard temperature and pressure (stp) : 22.4 l/mol . these values allow the conversion of grams, liters, or particles into moles.

a 2.3×10^2 g H_2O ? f.u. $\text{NaCl} = 3.55\text{ mol NaCl}$ 6.02×10^{23} ... - 7. what is the mass of 9.30×10^4 molecules SiH_4 ? ? g $\text{SiH}_4 = 9.30\text{ mol SiH}_4$! 32.1 g SiH_4 $1\text{ mol SiH}_4 = 299\text{ g SiH}_4$ $8\text{ convert } 0.120\text{ mol SiH}_4 \text{ to molecules. } ? \text{ mol SiH}_4 = 8.00 \times 10^{20} \text{ molecules SiH}_4$! $1\text{ mol SiH}_4 = 6.02 \times 10^{23} \text{ molecules SiH}_4 = 1.33 \times 10^{-3} \text{ mol SiH}_4$ 9. how many atoms of tin are found in 3.50 moles of tin? ? atoms $\text{Sn} = 3.50\text{ mol Sn}$! $6.02 \times 10^{23} \text{ atoms Sn}$ $1\text{ mol Sn} = 2 \times 10^{23} \text{ atoms Sn}$... **name: date: period: worksheet: molar volume/molar mass #1** - period: worksheet: molar volume/molar mass #1

1. how many moles of molecules are contained in 78.4 l of neon at stp?

2. what is the volume of 0.8 moles of chlorine gas at stp?

3. how many molecules are contained in 16.8 l of Xe at stp?

4. how many moles of molecules are contained in 39 l of F_2 gas at stp?

5. **naming compounds & writing formulas & calculating molar ...** - chemistry worksheet. naming compounds & writing formulas & calculating molar mass . questions: 1. identify the following compounds as ionic compound or covalent compound, write the name of the compounds, and calculate its molar mass. learning assistance center prepared by mh. **chem 115 pogil worksheet - week 4 moles & stoichiometry** - chem 115 pogil worksheet

- week 4 moles & stoichiometry why? chemists are concerned with mass relationships in chemical reactions, usually run on a macroscopic scale (grams, kilograms, etc.). to deal with the very large numbers of atoms and molecules in such samples, chemists developed the unit of the mole (abbreviated mol) and a unit **empirical and molecular formula worksheet** - empirical and molecular formula worksheet answer key. write the empirical formula for the following compounds. 1) C_6H_6 2) CH_4 3) WO_2 4) $C_2H_6O_2$ 5) X_3Y_{13} 6) a compound with an empirical formula of C_2O_4 and a molar mass of 88 grams per mole. what is the molecular formula of this compound? c. 4. o. 2. h. 8 **mole review practice problems - whitney high school** - i. atomic mass vs. molar mass: calculate the molar mass/ atomic mass of the following atoms and compounds: 1. complete the following table: list atom types & #'s of each type of atom atomic mass (with correct units) molar mass (with correct units) H_2O $H_2O = 18.02$ amu 18.02 grams/ mole Fe_2O_3 $NaCl$ CO_2 $Ba(OH)_2$ ii. **molar mass calculations worksheet - beach chemistry** - molar mass worksheet - answer key calculate the molar masses of the following chemicals: 1) Cl_2 71 g/mol 2) KOH 56.1 g/mol 3) $BeCl_2$ 80 g/mol 4) $FeCl_3$ 162.3 g/mol 5) BF_3 67.8 g/mol 6) CCl_2F_2 121 g/mol 7) $Mg(OH)_2$ **molar mass problems - incomplete key s o h o** - molar mass problems - incomplete key 1. 110.986 g/mol 2. 132.03 g 3. 1.99 mol 4. 4240 g 5. calculate moles in 168.0 g of H_2S 6. calculate moles in 510.0 g of Al_2S_3 7. **chemistry molar volume at stp practice problems** - spi 3221.3.5 convert among the following quantities of a substance: mass, number of moles, number of particles, molar volume at stp chemistry molar volume at stp practice problems assume all of the following problems are at standard conditions. 1. what volume will 0.750 moles of nitrogen gas occupy? 2. **molar mass worksheets with answers - kids.jdrf** - molar mass worksheet - nclark the molar mass worksheet is designed for students to practice calculating the molar mass of various chemicals. you can choose to include up to 20 problems on each worksheet that are randomly selected from a group of chemicals. molar mass worksheet | stem sheets find the formula mass of the following compounds. **chapter 3 molar mass calculation of molar masses** - molar mass molar ratio 180.1 g mol $C_6H_{12}O_6 = 2.33$ mol o strategy: once the number of moles of a substance present is known, we can use: - molar mass to find the number of grams - avogadro's number to find the number of atoms, ions, or molecules moles b grams b atoms b molar mass na moles a molar ratio molar conversions chapter 3 h? grams ...

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