Cheatography

Chemistry Chemical Equations Cheat Sheet by Katherine Doucet (katherinedoucet) via cheatography.com/171479/cs/36039/

Chemical Equations			Chemical Equations (cont)		Calculations (cont)		Types of Reactions	
chemical reaction	process that neither creates nor destroys atoms, but that rearranges atoms in chemical compounds. involve changes in		gases, liquids, au solids are labeled w (g), (l), ar (s).	e species that are vith dissolved in nd water; labeled	theore- tical yield	amount of product that forms when all the limiting reactant reacts to form the desired product; maximum	combin- ation reaction	two or more reactants combine to form a single product - A + B> AB
chemical equation	energy. uses chemical symbols to denote what occurs		(s). (aq) some nonmetals exist as polyatomic molecules: H2, N2, O2, F2, Cl2, Br2, I2, and P4.			obtainable yield, predicted by the balanced equation	decomp- osition reaction	two or more products form a single reactant; opposite of
in a chemical reaction. a chemical equation represents a chemical statement.		Balancing Chemical Equations			(the limiting reactant produces the theoretical yield).		combination reaction - AB> A + B	
reactant	each chemical species that appears to the left of the arrow.	substances that are consumed in the course of a chemical reaction.	law of conse rvation of mass	atoms can neither be created nor destroyed.	actual yield percent yield	amount of product actually obtained from a reaction; almost always less than the theoretical	combustion reaction	substance burns in the presence of oxygen. produces carbon dioxide gas and water.
			iom- etric coeffi-	numeric values written to the left of each species in a chemical equation to balance the equation.		yeild.		-
						determines the efficiency of a chemical reaction	Combustion A combustion analysis	experimental determination of
product	each species that appears to the right of the arrow.	substances that form during the course of a chemical reaction.	Calculations stoich- quantity of reactant in			% yield = actual yield/theoretical yield (100%)		an empirical formula by a reaction with
			iometric amount	the same relative amount as that represented in the		temperature and pressure can affect percent yield.		oxygen to produce carbon dioxide and
				balanced chemical equation.	atom economy	theoretical determ- ination of how much of the starting mass of reactants can end up in the final mass of the desired product.	organic compounds	water. containing C, H, and O, are carried out using an apparatus in combustion analysis.
			limiting reactant	reactant used up first in a reaction, limits the amount of product that can form.				
			excess reactant	present in quantities greater than necessary to react with the quantity of the limiting reactant.		atom economy = sum of molar mass of desired produc- t/sum of molar masses of reactants (100%)		

Page 1 of 1.

http://crosswordcheats.com

cheatography.com/katherinedoucet/