## Cheatography

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

Chemical				I Equations (cont)	Calculation		Types of Rea	
chemical reaction		or destroys t that s atoms in compounds.	gases, liquids, a solids are labeled w (g), (l), ar	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;	combin- ation reaction	two or more reactants combine to form a single product - A + B> AB
chemical	involve changes in energy. uses chemical symbols		(s). (aq) some nonmetals exist as polyatomic molecules: H2, N2, O2, F2, Cl2, Br2, I2, and P4.			maximum obtainable yield, predicted by the balanced equation (the limiting reactant	decomp- osition reaction	two or more products form a single reactant; opposite of combination
equation	to denote what occurs in a chemical reaction.							
a chemical equation represents a chemical statement.			Balancing Chemical Equations			produces the theoretical yield).		reaction - AB> A + B
reactant	nt each chemical species that appears to the left of the arrow.	substances that are consumed in the course of a chemical reaction.	conse rvation of mass	created nor destroyed.	actual yield	amount of product actually obtained from a reaction; almost always less than the theoretical	combustion reaction	substance burns in the presence o oxygen. produces carbon dioxide gas and water.
			iom- etric coeffi-	umeric values written the left of each	percent yield	yeild. determines the efficiency of a chemical reaction	Combustion	
				species in a chemical equation to balance the equation.			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 balanced chemical equation.		temperature and pressure can affect percent yield.		oxygen to produce carbon dioxide and
					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.

Learn to solve cryptic crosswords! http://crosswordcheats.com

cheatography.com/katherinedoucet/