Cheatography

Chemistry Basics Cheat Sheet by JadeWatson via cheatography.com/20924/cs/3781/

Metric Conversions			Unit Conversions (cont)			Formula Types		Solubility Rules (cont)		
micro milli centi	0.00 0.00 0.01		1.0 g = 0.0353 oz	1.0 L = 61.0 in^3	1.0 mi = 1.609 km	Molecular Formula	a chemical formula that indicates the actual # of each element in one	4. All sulfates (SO4 ²⁻) are soluble, except those of Pb Ca ²⁺ , Sr ²⁺ , Hg ²⁺ , and Ba ²⁺ Insoluble Compounds		
deci 0.1 (base unit) 1.0 deca 10.0)	1.0 g = 0.0022 lb	1.0mL=- 0.03381 floz	1.0 m = 3.28 ft		molecule of a substance a chemical formula that only shows the reacting substances in the smallest possible	 5. All hydroxides (OH) and metal oxides (containing O²) ar insoluble, except those of group IA and Ca²⁺, Sr²⁺, NH4⁺, and Ba²⁺. When metal oxides do dissolve, they give hydroxides. 6. All compounds that contain 		
hecto kilo Mega	hecto 100.0 kilo 1000.0		1.0 lb = 0.454 kg	1.0 mL=0.061 in^3	1.0 m = 39.37 in	i = Formula				
Temperature Conversions Fahrenheit to C=0.555(F-32)		1.0 lb = 453.51 g	1.0 fl oz=29.58 mL	1.0 ft = 30.48 cm		whole number ratios	PO4 ³⁻ , CO3 ²⁻ , SO3 ²⁻ , and S ²⁻ are insoluble, except those of group IA and NH4			
Celsius Celsius to		1.8C + 32	1.0 oz = 28.34 g	1.0 in^3=29.58 mL	1.0 ft = 0.3048	Structural Formula	a chemical formula that shows all of the molecules and	Chemical Reactions		
Fahrenheit Celsius to Kelvin		C + 273		1.0 ft^3=2- 8.317 L	m 1.0 in = 2.54 cm 1.0 in = 0.0254	Solubility R	placements	Combination Reaction Decomposition Reaction Combustion Reaction	A + B = C C = A + B	
Kelvin to Celsius Fahrenheit		< - 273 0.555(F-32)		1.0 ft^3=1.264		Soluble Cor	mpounds ounds of alkali metals		ends in CO2 and H2O	
Kelvin + 273 Kelvin to F=1.8(K-273) Fahrenheit + 32		Mole Conversions			 All salts containing NH4, NO3, CIO4, CIO3, and C2H3O2 are soluble. All chlorides (Cl⁻), bromides 					
Unit Conversions			Mole	mole-mas	5/1 VV	(Br ⁻), and iodides (I ⁻) are				
Mass Volum		Distance	Mole to Gram	Mass=mol	x FW	soluble, exe Pb ²⁺ , and F	cept those of Ag ⁺ , Ig ²⁺			
1.0 kg = 2.205 lb	1.0 L = 1.057 qt	1.0 km = 0.6214 mi 1.0 km = 3281.0 ft	Particle to Mole	mole = partic- les/(6.022×10^{23} part = mol x (6.022 x 10^{23})						
1.0 kg = 35.280	1.0 L = 0.2642		Mole to Particle							
OZ	gal		Misc. Cor	iversions						
		1 amu = 1 Joule =	1.66054 x 1 kg x m ²	10 ⁻²⁴ g						
			1 Cal = 1 GHz =	4.184 J 1,000,000,	000 Hz					

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Bi

Cu

Hg

Ag

Pt

Au

How to Write a Chemical			States o	f Matter	Activity Series of Metals		
Formula			Gas	has no fixed volume or	Li	Mg	Со
	1. Write the ele	emental symbols.		shape	Rb	Al	Ni
	2. Determine t	0	Liquid	has a distinct volume	К	Mn	Sn
	3. Determine t multiple of the			not shape	Ва	Zn	Pb
	4. Balance eq	-	Solid	has a definite volume	Sr	Cr	H2
				and shape	Са	Fe	Sb
	Acids and Bas	es	Percent	Formulas	Na	Cd	
	Acids	ion acceptor	%	[(# of atoms x			
	Bases	ion donater	compos				
	Strong Acids	Strong Bases	ition of	weight)/FW] x 100			
	HCI, HBr	LiOH, NaOH	element				
	(H group)	(OH group)	% error	[(experimental -			
				true)/true] x 100			
	Properties of M	Aatter	% yield	[(actual -theoreti-			
	, ,	erties: properties		cal)/theoretical] x			
		served without		100			
	changing the i	dentity. Derties: describe	Basic Fo	ormulas			
		ice may change or	Area of	$3.14 \times r^2$			
		other substances.	a Circle	3.14 X ľ			
	Intensive Prop	erties: temper-	Volume	area x height			
	ature and melt	ing point		5			
		perties: mass and	Molarity	(moles of a solute)/(- volume of solution in			
	volume						

L)

mass/volume

Density

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