

CHEMISTRY I EQUATION SHEET

Solubility Rules

Solubility Rules			Form a Compound which is	
Negative Ion Plus Positive Ion				
Any neg. ion + group 1a ions Soluble				
Any neg. ion + Ammonium ion Soluble				
Nitrate + any positive ion Soluble				
Acetate	+	any positive ion except Ag ⁺ or Hg ²⁺	Soluble	
bromide or iodide + Any other positive ion	+	Ag ⁺ , Pb ²⁺ , Hg ²⁺ or Cu ⁺	Not Soluble	Soluble
Sulfate	+	Ca ²⁺ , Sr ²⁺ , Ba ²⁺ , Ra ²⁺ , Ag ⁺ or Pb ²⁺	Not Soluble	Soluble
+ Any other positive ion Soluble				
Sulfide	+	group 1a ions or ammonium	Soluble	
Be ²⁺ , Mg ²⁺ , Ca ²⁺ , Sr ²⁺ , Ba ²⁺ or Ra ²⁺			Soluble	
+ Any other positive ion Not Soluble				
Hydroxide	+	group 1a ions or ammonium	Soluble	
+ Any other positive ion Not Soluble				
Carbonate, Chromate, Phosphate, or Sulfite + Any other positive ion	+	group 1a ions or ammonium	Soluble	
Not Soluble				

Equations

D = m/v	c = specific heat
Molarity = $\frac{\text{mol}}{\text{V}}$	d = density
$P_1 V_1 = P_2 V_2$	I = initial amount
$\frac{T_1}{T_2}$	F = final amount
Q = mc ΔT	m = mass
nRTPV =	M = molarity
F = I (1/2) *	n = number of moles & number of half lives
n = Total Time	P = pressure
Half Life Time	R = ideal gas constant
	Q = heat energy
	T = temperature
	V = volume
	X = amount of matter left

Constants

	1 atm = 101.3 kPa Pressure
	1 atm = 760 mm Hg
	R = 8.314 L x kPa / mol°C Universal
Constant or 0.0821 L x atm / mol°C	
Avogadro's number	6.02 X
Specific Heats (J / g°C)	
	Water = 4.180
	Aluminum = 0.895
	Copper = 0.387
	Iron = 0.448

Activity Series in Decreasing Activity

Metals
Lithium
Rubidium
Potassium
Calcium
Sodium
Magnesium
Aluminum
Manganese
Zinc
Iron
Nickel
Tin
Lead
Hydrogen
Copper
Silver
Platinum
Gold
Nonmetals
Fluorine
Chlorine
Bromine
Iodine

Polyatomic Ions

Name	Formula
Ammonium	NH ₄ ⁺
Acetate	C ₂ H ₃ O ₂ ⁻
Carbonate	CO ₃ ⁻²
Bicarbonate or Hydrogen carbonate	HCO ₃ ⁻
Hypochlorite	ClO ⁻
Chlorite	ClO ₂ ⁻
Chlorate	ClO ₃ ⁻
Perchlorate	ClO ₄ ⁻
Hydroxide	OH ⁻
Cyanide	CN ⁻
Nitrate	NO ₃ ⁻
Nitrite	NO ₂ ⁻
Chromate	CrO ₄ ⁻²
Oxalate	C ₂ O ₄ ⁻²
Sulfate	SO ₄ ⁻²
Sulfite	SO ₃ ⁻²
Hydrogen sulfate	HSO ₄ ⁻
Phosphate	PO ₄ ⁻³
Phosphite	PO ₃ ⁻³
Hydrogen phosphate	HPO ₄ ⁻²

Metric Conversions

Unit	Abbr.	Meaning
Mega-	M	10 ⁶
kilo-	k	10 ³
hecto-	h	10 ²
deca-	da	10 ¹
Liter	L	1
gram	g	1
meter	m	1
deci-	d	10 ⁻¹
centi-	c	10 ⁻²
milli-	m	10 ⁻³
micro-	μ	10 ⁻⁶
nano-	n	10 ⁻⁹

Calorie Conversions

Water = 1 cal/ g°C
1000 cal = 1 Cal

High School Chemistry Formulas Cheat Sheet

Annelies Wilder-Smith



High School Chemistry Formulas Cheat Sheet:

Unveiling the Power of Verbal Art: An Mental Sojourn through **High School Chemistry Formulas Cheat Sheet**

In a world inundated with displays and the cacophony of immediate transmission, the profound power and psychological resonance of verbal art often disappear in to obscurity, eclipsed by the regular assault of noise and distractions. However, nestled within the lyrical pages of **High School Chemistry Formulas Cheat Sheet**, a charming work of fictional beauty that pulses with raw feelings, lies an unforgettable trip waiting to be embarked upon. Penned by way of a virtuoso wordsmith, that exciting opus manuals visitors on a mental odyssey, lightly exposing the latent potential and profound affect embedded within the elaborate internet of language. Within the heart-wrenching expanse of the evocative evaluation, we shall embark upon an introspective exploration of the book is central styles, dissect its fascinating publishing design, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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web nov 20 2019 one needs to have two of the following three criteria to make a formal diagnosis of acute respiratory

failure po 2 less than 60 mm hg hypoxemia pco 2 greater than 50 mm hg hypercapnia with ph less than 7 35 signs and symptoms of acute respiratory distress one may think that it would be difficult to meet criteria without an abg
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web 21112972 10 1136 emj 2005 030643 acute respiratory failure arf is a frequent emergency department ed presentation the definition and common causes of arf are discussed in this article and ed management of the condition is discussed using an illustrative case report

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web jul 16 2020 this review describes ebps that are associated with fewer ventilator days and or lower mortality rates among patients who received imv for acute respiratory failure ards many of these ebps are connected across the care continuum which indicates the need to promote and assess effective implementation jointly rather than

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web oct 29 2021 in this paper the main research is to explore the way of severe nursing of respiratory failure before the nursing of respiratory failure we should carry out nursing detection of the ventilator and test its performance