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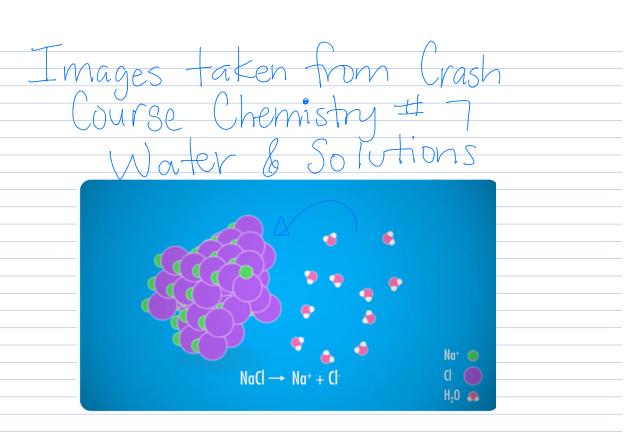
Chemistry 12 Solubility Lesson #1 A Review of SOLUBILITY

THE SOLUBILITY OF SALTS:
A salt is defined as ancompound which can not be classified as an ARRHENIUS (compounds that begin with "H") or an ARRHENIUS (compounds that end with "OH_").
An IONIC compound is one that is made up of a <u>metal</u> and a <u>non metal</u> , whereas a MOLECULAR compound is one that is made up of <u>non-metal</u> .
GENERAL RULES FOR DISTINGUISHING BETWEEN AN IONIC AND MOLECULAR COMPOUND: anion Acid
1. "IONIC" – a. metal + non-metal b. polyatomic metal + non-metal c. metal + polyatomic non – metal d. polyatomic metal + polyatomic non-metal Na ₃ PO ₄ NHy NO ₃
2. "MOLECULAR" - a. non-metal + non-metal b. ORGANIC compounds Ex. Co2, So2
3. An ionic compound will undergo 100 % DISSOCIATION when placed in water, whereas a molecular compound will not.
water, whereas a molecular compound will not. NaCl(S) $H_2O(e)$ Nat $(aq) + Cl(aq)$ HOUSE $H_2O(e)$ $H_2O(e)$ $H_2O(e)$ $H_2O(e)$ $H_2O(e)$
WIOLEGULAR: OLD TO BE TO TO THE TOTAL OF THE
4. Ionic compounds are therefore classified as <u>electrouses</u> (as they can conduct an electric current. While molecular compounds are classified as <u>non-electrouse</u> (as they DO NOT conduct an electric current).
THE FOLLOWING ARE A LIST OF IMPORTANT TERMS USED IN THIS UNIT:
SOLUBILITY is defined as the maximum amount of a substance that can discolve in a given temperature given volume of a solvent @ a given temperature
SATURATED SOLUTION is formed when the dissolved substance is in equilibrium. With some windissolved substance.
> (must have some solid present)

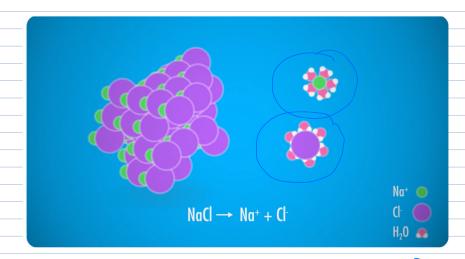
	MOLAR SOLUBILITY is used to express the solubility of a substance in terms of
X	SOLUBILITY can also be expressed in the terms of
	IN ORDER FOR A SOLUTION TO BE CONSIDERED SATURATED: 1. Some undissolved Solute is present
	2. an equilibrium exists between what is dissolved and undissolved in solution. A Saturated solution is expressed as an EQUILIBRIUM between the undissolved solid and it's component ions: AgBrO ₃ (S) Ag ⁺ (ag) + BrO ₃ (ag)
	You can break down the above EQUILIBRIUM EQUATION to show the two individual reactions:
	1. THE FORWARD REACTION (THE DISSOLVING REACTION)
	AgBrD3(s) Agt cag? + BrO3 (ag. re-crystallizing CP) 2. THE REVERSE REACTION (THE CRYSTALLLIZATION REACTION) REPORT P
	2. THE REVERSE REACTION (THE CRYSTALLLIZATION REACTION)
	Agt cap) + Broj (ag) - AgBroj (s)

SEATWORK/HOMEWORK: Exercises 1 – 7 pgs 74 + 76 in HEBDEN PLO's : G1- G4 + G6

Watch the crash course #7

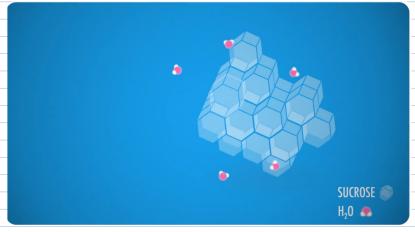


Nact (ionic)

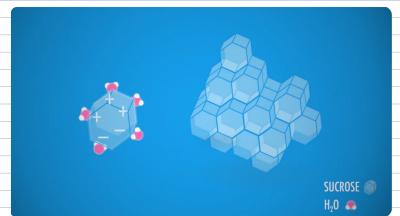


(dissolves & dissociates)

conduct electricity



C12 H22011 (8)



Cia Haa Oii (s) -> Cia tha Oii (ag)

(dissolves) does not dissocial

non-conductive