

Unit 4 Chemistry Test Cheat Sheet

by sunyzz via cheatography.com/50431/cs/13918/

Polar vs Non-Polar	
Polar	Non-Polar
made with two or more non-metals	no electrical poles
one end has a positive charge, the other has a negative.	electrons divided more equally
has electrical poles	charges cancel out
soluble in water	not soluble in water, but maybe like oil

Ionic vs Covalent	
Ionic	Covalent
electrons not shared equally	electrons shared equally
high melting point	low melting point
between one metal and one non-metal	between two non-metals

Intermolecular Force				
London Dispersion	weakest intermolecular force.temporary attractive force that results when the electrons in two adjacent atoms occupy positions that make the atoms form temporary dipoles.			
Dipole- Dipole	occurs between two polar molecules. slightly stronger than london dispersion. slightly positive attracts to slightly negative end. a good example is hydrochloride (HCI)			
Ion-Dipole	attraction between an ion and a neutral molecule that has a dipole. most commonly found in solutions.ion with non-polar molecule.weaker than covalent or ionic bonds. polar water and sodium ion.			

Non-Polar? Or Polar?	
Looking at Lewis Structure	
if bonds are symetrical, it is non-polar. if it is	
asymmetrical it is polar.	

Solubility Rules				
Always Soluble	Exceptions	Insoluble		
Nitrates	"PMS"	silver salts		
Acetates (C2,H3,O2-)	P>Pb2 (lead)	hydroxide salts (slightly)		
Group 1 (Li+, Na+, etc)	M>Mercur y (Hg2)	hydroxide salts of transition metals		
Sulfates	S>Silver (Ag)	sulfides of transition metals		
Ammonium (NH4+)		carbonates		
Group 17 (F-,Cl-,Br-)		chromates		
		phosphates and fluorides		



By **sunyzz** cheatography.com/sunyzz/

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