

Solubility Table Common Ionic Compounds

	Group 1				Group 2			Transition Metals					
	NH ₄ ⁺	Li ⁺	Na ⁺	K ⁺	Mg ²⁺	Ca ²⁺	Ba ²⁺	Al ³⁺	Fe ³⁺	Cu ²⁺	Ag ⁺	Zn ²⁺	Pb ²⁺
F ⁻	sol	sol	sol	sol	insol	insol	sl sol	sol	sl sol	sol	sol	sol	insol
Cl ⁻	sol	sol	sol	sol	sol	sol	sol	sol	sol	sol	insol	sol	sol
Br ⁻	sol	sol	sol	sol	sol	sol	sol	sol	sol	sol	insol	sol	sl sol
I ⁻	sol	sol	sol	sol	sol	sol	sol	sol			insol	sol	insol
OH ⁻	sol	sol	sol	sol	insol	sl sol	sol	insol	insol	insol		insol	insol
S ²⁻	sol	sol	sol	sol		sl sol	sol		insol	insol	insol	insol	insol
SO ₄ ²⁻	sol	sol	sol	sol	sol	sl sol	insol	sol	sol	sol	sl sol	sol	insol
CO ₃ ²⁻	sol	sol	sol	sol	insol	insol	insol			sl sol	insol	insol	insol
NO ₃ ⁻	sol	sol	sol	sol	sol	sol	sol	sol	sol	sol	sol	sol	sol
PO ₄ ³⁻	sol	insol	sol	sol	insol	insol	insol	insol	insol	insol	insol	insol	insol
CrO ₄ ²⁻	sol	sol	sol	sol	sol	sol	insol		insol	insol	insol	insol	insol
CH ₃ CO ₂ ⁻	sol	sol	sol	sol	sol	sol	sol	sl sol	sol	sol	sol	sol	sol

sol — soluble >1g/100 mL

sl sol — slightly soluble (0.1 to 1) g/100 mL

insol — insoluble <0.1g/100 mL

(blank) — not enough solubility data
available to be determined

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Use the chart above and your lab date to determine if you had a reaction on Friday.

SOLUBLE (SOL) = AQUEOUS,

INSOLUBLE (INSOL) or (SLIGHTLY SOLUBLE (SL SOL) = SOLID (which indicates a reaction occurred)

Write the names of both products using the EXACT format

AB + CD -> AD + CB and indicate which products was solid and which was aqueous.

		C	D	C	D	C	D	C	D	C	D	C	D
A	B	sodium carbonate		sodium chloride		sodium hydroxide		sodium sulfate		sodium phosphate		lithium nitrate	
calcium chloride		AD		AD		AD		AD		AD		AD	
		CB		CB		CB		CB		CB		CB	
A	B												
copper(II) sulfate		AD		AD		AD		AD		AD		AD	
		CB		CB		CB		CB		CB		CB	
A	B												
iron(III) chloride		AD		AD		AD		AD		AD		AD	
		CB		CB		CB		CB		CB		CB	

		C	D	C	D	C	D	C	D	C	D	C	D
		sodium carbonate		sodium chloride		sodium hydroxide		sodium sulfate		sodium phosphate		lithium nitrate	
A	B												
lead(II)	nitrate	AD		AD		AD		AD		AD		AD	
		CB		CB		CB		CB		CB		CB	
A	B												
potassium	iodide	AD		AD		AD		AD		AD		AD	
		CB		CB		CB		CB		CB		CB	
A	B												
silver	nitrate	AD		AD		AD		AD		AD		AD	
		CB		CB		CB		CB		CB		CB	