

Chem 115  
 Group Problem #1  
 February 7, 2008

2) Name these compounds

Compound	Correct name(s)	Incorrect names	Why is it incorrect?
NaNO <sub>3</sub>	sodium nitrate	sodium nitrite	
		sodium nitrate ion	
		sodium nitrogen trioxide	
		sodium nitrate-ide	
(NH <sub>4</sub> ) <sub>2</sub> S	ammonium sulfide ammonium sulphide	ammonium sulfite	
		ammonium hydrosulfide	
		diammonium sulfide	
		ammonium sulfide ion	
		ammonium sulfate	
		ammonium disulfate	
		ammonium sulfur	
CrPO <sub>4</sub>	chromium (III) phosphate	chromium phosphate	
		cromium phosphate	
		chromate phosphate	
		chromium phosphorus tetroxide	
		chronium phosphate	
		chromium phosphide	
N <sub>2</sub> O	dinitrogen monoxide nitrous oxide	dinitrogen oxide	
		dinitrate oxide	
		nitrogen oxide	
		nitrogen monoxide	

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3) Write formulas

Name	Correct formula	Incorrect formulas	Why is it incorrect?
calcium iodide	CaI <sub>2</sub>	CaI	
		CaI <sup>+</sup> or CaI <sup>-</sup>	
selenium trioxide	SeO <sub>3</sub>	Se <sub>2</sub> O <sub>3</sub>	
		SeO <sup>3-</sup>	
		Se <sub>3</sub> O <sub>3</sub>	
		Se <sub>3</sub> O	
strontium hypochlorite	Sr(ClO) <sub>2</sub> Sr(OCl) <sub>2</sub>	SrClO	
		SrClO <sup>-</sup>	
		SrCl	
		SrHCl	
		Sr(ClO <sub>3</sub> ) <sub>2</sub>	
		SR(CLO) <sub>2</sub>	
iron (III) oxalate	Fe <sub>2</sub> (C <sub>2</sub> O <sub>4</sub> ) <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	
		I <sub>3</sub> C <sub>2</sub> O <sub>4</sub>	
		Fe <sub>3</sub> C <sub>2</sub> O <sub>4</sub>	
		Fe <sub>3</sub> C <sub>2</sub> O <sub>4</sub> <sup>2-</sup>	
		Fe <sup>3</sup> C <sub>2</sub> O <sub>4</sub>	
		FeC <sub>2</sub> O <sub>4</sub>	
		Fe <sub>3</sub> (C <sub>2</sub> O <sub>4</sub> ) <sub>2</sub>	