

What's in a Name? The Nomenclature of Inorganic Compounds

Name _____
Last first

Chem ID _____

TA _____

- (6)1. Categorize whether each of the following is an ion, an inorganic acid, an ionic compound, or a covalent compound and give it a systematic name:

Formula	Category	Systematic Name
SO_3		
Na_2SO_3		
KClO_3		
HClO_4		
O^{2-}		
SnO_2		

- (10)2. Fill in the blanks with the names or formulas of the compounds/ ions.

Formula	Name
$\text{Ga}_2(\text{Cr}_2\text{O}_7)_3$	
HNO_2	
Hg_2Cl_2	
K_2O_2	
$\text{Ca}(\text{H}_2\text{PO}_4)_2$	

Formula	Name
	Copper(I) sulfide
	Strontium nitride
	Hydroiodic acid
	Aluminum hydrogen sulfite
	Dinitrogen pentoxide

(2)3. The chemical formula of sodium azide is NaN_3 .

a. What is the formula of an azide ion?

b. What would be the chemical formula of calcium azide?

(2)4. Should the compound N_2H_4 be named as a hydride or a nitride? Give a systematic name for this compound.