

Unit 7: Chemical Formulas  
and Nomenclature

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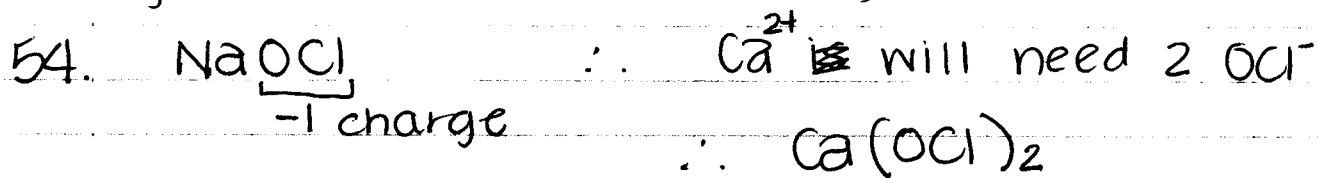
End of Problems Solutions not found in Text

Chapter 5:

48. a. sodium bromide  $\text{NaBr}$   
b. calcium chloride  $\text{CaCl}_2$   
c. iron(III) chloride or ferric chloride  $\text{FeCl}_3$   
d. lithium iodide  $\text{LiI}$   
e. potassium sulfide  $\text{K}_2\text{S}$   
f. copper(I) bromide or cuprous bromide  $\text{CuBr}$

50. a. magnesium sulfate  $\text{MgSO}_4$   
b. sodium hydrogen carbonate  $\text{NaHCO}_3$   
c. skip  
d. potassium permanganate,  $\text{KMnO}_4$ , is purple  
e. skip

52. a.  $\text{KNO}_2$  potassium nitrite  
b.  $\text{LiCN}$  lithium cyanide  
c.  $\text{NH}_4\text{I}$  ammonium iodide  
d.  $\text{NaNO}_3$  ~~pot~~ sodium nitrate  
e.  $\text{KMnO}_4$  potassium permanganate  
f.  $\text{CaSO}_4$  calcium sulfate



56. a.  $\text{OF}_2$  oxygen difluoride  
b.  $\text{N}_2\text{O}_5$  dinitrogen pentoxide  
c.  $\text{PBr}_3$  phosphorus tribromide  
d.  $\text{S}_4\text{N}_4$  tetrasulfur tetranitride

58. a.  $\text{CBr}_4$  carbon tetrabromide  
b.  $\text{Cl}_2\text{O}_7$  dichloride heptoxide  
c.  $\text{P}_4\text{O}_{10}$  tetraphosphorus decoxide  
d.  $\text{I}_2\text{O}_5$  diiodine pentoxide

### Chapter 7

30. a. lithium hydroxide  $\text{LiOH}$   
b. sulfurous acid  $\text{H}_2\text{SO}_3$  or  $(\text{HO})_2\text{SO}$   
c. phosphoric acid  $\text{H}_3\text{PO}_4$  or  $(\text{HO})_3\text{PO}$   
d. calcium hydroxide  $\text{Ca}(\text{OH})_2$

32. a.  $\text{Mg}(\text{OH})_2$  base  
b.  $\text{NH}_3$  base  
c.  $\text{H}_2\text{S}$  acid