## Exercises in Naming, Chemical Formulas, and Classifying Simple Chemical C

Al<sub>2</sub>(SO<sub>4</sub>)<sub>3</sub>

Fe(NO<sub>3</sub>)<sub>3</sub>

Fe(ClO<sub>4</sub>)<sub>2</sub>

CuSO<sub>4</sub>•5H<sub>2</sub>O

 $NO_2$ 

 $B_2O_3$ 

HCN

 $Br_2$ 

 $MgF_2$ 

Al(NO<sub>2</sub>)<sub>3</sub>

CH<sub>3</sub>CH<sub>3</sub>

 $CoCl_2 \bullet 6H_2O$ 

CH<sub>3</sub>(CH<sub>2</sub>)<sub>3</sub>CH<sub>2</sub>OH

 $PH_3$ 

Provide names for the following compounds and give the general category they belong to (i.e. ionic, molecular, acid, base, hydrate, or organic).

Na<sub>2</sub>SO<sub>4</sub> (NH<sub>4</sub>)<sub>3</sub>PO<sub>4</sub> MnCl<sub>3</sub> Ca(OH)<sub>2</sub>  $H_2SO_4$ 

 $P_2O_5$ 

HBr

 $Hg(NO_2)_2$ K<sub>2</sub>HPO<sub>4</sub> CaH<sub>2</sub> NaHCO<sub>3</sub>

 $Cu(ClO_2)_2$ 

CH<sub>3</sub>(CH<sub>2</sub>)<sub>4</sub>CH<sub>3</sub>

CH<sub>3</sub>COOH

Provide the formulas for the following general category they belong to:

calcium carbonate dichlorine heptoxide ammonium sulfite carbonic acid

dinitrogen tetroxide

sulfur trioxide

acetic acid

hydrofluoric acid aluminum hydroxide perchloric acid phosphoric acid

potas sium oxide

ammoni

cobalt(III) sulfate

propanoic acid