

Nomenclature

Name _____

Provide the chemical formulas for the following:

1. Iron(III) phosphate $FePO_4$
2. sodium sulfate Na_2SO_4
3. aluminum hydroxide $Al(OH)_3$
4. octane C_8H_{18}
5. calcium bromite $Ca(BrO_2)_2$
6. cobalt permanganate $Co(MnO_4)_2$
7. silver acetate $AgCH_3COO$
8. zinc(II) fluoride ZnF_2
9. aluminum oxide Al_2O_3
10. dinitrogen tetroxide N_2O_4
11. hypochlorous acid $HClO$
12. calcium carbonate $CaCO_3$
13. magnesium fluoride MgF_2
14. potassium nitrite KNO_2
15. chromium (VI) oxide CrO_3
16. sulfurous acid H_2SO_3
17. magnesium nitride Mg_3N_2
18. tin(IV) sulfate $Sn_2(SO_4)_4$
19. rubidium sulfide Rb_2S
20. carbon disulfide CS_2

Write systematic names for the following:

1. CH_3COOH acetic acid
2. $Ca_3(PO_4)_2$ calcium phosphate
3. K_2O potassium oxide
4. C_3H_8 propane
5. HIO_3 iodic acid
6. Na_2S sodium sulfide
7. $Pb(NO_3)_2$ lead(II) nitrate
8. MnO_2 manganese(IV) oxide
9. ICl_6 iodine hexachloride

Fill in the following table with chemical formulas:

	CO_3^{2-}	PO_4^{3-}	OH^-	NO_3^-	S^{2-}	SO_4^{2-}	BrO_2^-
Na^+	Na_2CO_3	Na_3PO_4	$NaOH$	$NaNO_3$	Na_2S	Na_2SO_4	$NaBrO_2$
K^+	K_2CO_3	K_3PO_4	KOH	KNO_3	K_2S	K_2SO_4	$KBrO_2$
Mg^{2+}	$MgCO_3$	$Mg_3(PO_4)_2$	$Mg(OH)_2$	$Mg(NO_3)_2$	MgS	$MgSO_4$	$Mg(BrO_2)_2$
Al^{3+}	$Al_2(CO_3)_3$	$AlPO_4$	$Al(OH)_3$	$Al(NO_3)_3$	Al_2S_3	$Al_2(SO_4)_3$	$Al(BrO_2)_3$
Fe^{2+}	$FeCO_3$	$Fe_3(PO_4)_2$	$Fe(OH)_2$	$Fe(NO_3)_2$	FeS	$FeSO_4$	$Fe(BrO_2)_2$
Ca^{2+}	$CaCO_3$	$Ca_3(PO_4)_2$	$Ca(OH)_2$	$Ca(NO_3)_2$	CaS	$CaSO_4$	$Ca(BrO_2)_2$
Zn^{2+}	$ZnCO_3$	$Zn_3(PO_4)_2$	$Zn(OH)_2$	$Zn(NO_3)_2$	ZnS	$ZnSO_4$	$Zn(BrO_2)_2$
Sn^{4+}	$Sn(CO_3)_2$	$Sn_3(PO_4)_4$	$Sn(OH)_4$	$Sn(NO_3)_4$	SnS_2	$Sn(SO_4)_2$	$Sn(BrO_2)_4$