

Chem ch7
Naming Review

Naming Ionic Compounds – Answer Key

Give the name and molar mass of the following ionic compounds:

		Name	Molar Mass
1)	Na_2CO_3	sodium carbonate	129 grams/mole
2)	NaOH	sodium hydroxide	40 grams/mole
3)	MgBr_2	magnesium bromide	184.1 grams/mole
4)	KCl	potassium chloride	74.6 grams/mole
5)	FeCl_2	iron (II) chloride	126.8 grams/mole
6)	FeCl_3	iron (III) chloride	162.3 grams/mole
7)	Zn(OH)_2	zinc hydroxide	99.4 grams/mole
8)	Be_2SO_4	beryllium sulfate	114.1 grams/mole
9)	CrF_2	chromium (II) fluoride	90.0 grams/mole
10)	Al_2S_3	aluminum sulfide	177.3 grams/mole
11)	PbO	lead (II) oxide	223.2 grams/mole
12)	Li_3PO_4	lithium phosphate	115.7 grams/mole
13)	TiI_4	titanium (IV) iodide	552.3 grams/mole
14)	Co_3N_2	cobalt (II) nitride	204.7 grams/mole
15)	Mg_3P_2	magnesium phosphide	134.9 grams/mole
16)	$\text{Ga(NO}_2)_3$	gallium nitrite	207.7 grams/mole
17)	Ag_2SO_3	silver sulfite	311.9 grams/mole
18)	NH_4OH	ammonium hydroxide	35.0 grams/mole
19)	Al(CN)_3	aluminum cyanide	105.0 grams/mole
20)	$\text{Be(CH}_3\text{COO)}_2$	beryllium acetate	127.0 grams/mole

For the following compounds, give the formulas and the molar masses:

	Formula	Molar Mass
22) sodium phosphide	Na₃PO₃ Na ₃ P	164.0 grams/mole
23) magnesium nitrate	Mg(NO ₃) ₂	86.3 grams/mole
24) lead (II) sulfite	PbSO ₃	287.3 grams/mole
25) calcium phosphate	Ca ₃ (PO ₄) ₂	310.3 grams/mole
26) ammonium sulfate	(NH ₄) ₂ SO ₄	132.1 grams/mole
27) silver cyanide	AgCN	133.9 grams/mole
28) aluminum sulfide	Al ₂ S ₃	150.3 grams/mole
29) beryllium chloride	BeCl ₂	80.0 grams/mole
30) copper (I) arsenide	Cu ₃ As	265.4 grams/mole
31) iron (III) oxide	Fe ₂ O ₃	159.6 grams/mole
32) gallium nitride	GaN	83.7 grams/mole
33) iron (II) bromide	FeBr ₂	215.6 grams/mole
34) vanadium (V) phosphate	V ₃ (PO ₄) ₅	627.7 grams/mole
35) calcium oxide	CaO	56.1 grams/mole
36) magnesium acetate	Mg(CH ₃ COO) ₂	142.3 grams/mole
37) aluminum sulfate	Al ₂ (SO ₄) ₃	342.3 grams/mole
38) copper (I) carbonate	Cu ₂ CO ₃	187.0 grams/mole
39) barium oxide	BaO	153.3 grams/mole
40) ammonium sulfite	(NH ₄) ₂ SO ₃	116.1 grams/mole
41) silver bromide	AgBr	187.8 grams/mole
42) lead (IV) nitrite	Pb(NO ₂) ₄	391.2 grams/mole