

Naming Ionic Compounds

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

	Name	Molar Mass
1)	Na_2CO_3 _____	_____
2)	NaOH _____	_____
3)	MgBr_2 _____	_____
4)	KCl _____	_____
5)	FeCl_2 _____	_____
6)	FeCl_3 _____	_____
7)	$\text{Zn}(\text{OH})_2$ _____	_____
8)	Be_2SO_4 _____	_____
9)	CrF_2 _____	_____
10)	Al_2S_3 _____	_____
11)	PbO _____	_____
12)	Li_3PO_4 _____	_____
13)	TiI_4 _____	_____
14)	Co_3N_2 _____	_____
15)	Mg_3P_2 _____	_____
16)	$\text{Ga}(\text{NO}_2)_3$ _____	_____
17)	Ag_2SO_3 _____	_____
18)	NH_4OH _____	_____
19)	$\text{Al}(\text{CN})_3$ _____	_____
20)	$\text{Be}(\text{CH}_3\text{COO})_2$ _____	_____

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

	Formula	Molar Mass
22)	sodium phosphide _____	_____
23)	magnesium nitrate _____	_____
24)	lead (II) sulfite _____	_____
25)	calcium phosphate _____	_____
26)	ammonium sulfate _____	_____
27)	silver cyanide _____	_____
28)	aluminum sulfide _____	_____
29)	beryllium chloride _____	_____
30)	copper (I) arsenide _____	_____
31)	iron (III) oxide _____	_____
32)	gallium nitride _____	_____
33)	iron (II) bromide _____	_____
34)	vanadium (V) phosphate _____	_____
35)	calcium oxide _____	_____
36)	magnesium acetate _____	_____
37)	aluminum sulfate _____	_____
38)	copper (I) carbonate _____	_____
39)	barium oxide _____	_____
40)	ammonium sulfite _____	_____
41)	silver bromide _____	_____
42)	lead (IV) nitrite _____	_____

Naming Ionic Compounds – Answer Key

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

		Name	Molar Mass
1)	Na ₂ CO 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 ₂ SO ₄	beryllium sulfate	114.1 grams/mole
9)	CrF ₂	chromium (II) fluoride	90.0 grams/mole
10)	Al ₂ S ₃	aluminum sulfide	177.3 grams/mole
11)	PbO	lead (II) oxide	223.2 grams/mole
12)	Li ₃ PO ₄	lithium phosphate	115.7 grams/mole
13)	TiI ₄	titanium (IV) iodide	552.3 grams/mole
14)	Co ₃ N ₂	cobalt (II) nitride	204.7 grams/mole
15)	Mg ₃ P ₂	magnesium phosphide	134.9 grams/mole
16)	Ga(NO ₂) ₃	gallium nitrite	207.7 grams/mole
17)	Ag ₂ SO ₃	silver sulfite	311.9 grams/mole
18)	NH ₄ OH	ammonium hydroxide	35.0 grams/mole
19)	Al(CN) ₃	aluminum cyanide	105.0 grams/mole
20)	Be(CH ₃ 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	Na_3PO_4	164.0 grams/mole
23) magnesium nitrate	$\text{Mg}(\text{NO}_3)_2$	86.3 grams/mole
24) lead (II) sulfite	PbSO_3	287.3 grams/mole
25) calcium phosphate	$\text{Ca}_3(\text{PO}_4)_3$	310.3 grams/mole
26) ammonium sulfate	$(\text{NH}_4)_2\text{SO}_4$	132.1 grams/mole
27) silver cyanide	AgCN	133.9 grams/mole
28) aluminum sulfide	Al_2S_3	150.3 grams/mole
29) beryllium chloride	BeCl_2	80.0 grams/mole
30) copper (I) arsenide	Cu_3As	265.4 grams/mole
31) iron (III) oxide	Fe_2O_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	$\text{V}_3(\text{PO}_4)_5$	627.7 grams/mole
35) calcium oxide	CaO	56.1 grams/mole
36) magnesium acetate	$\text{Mg}(\text{CH}_3\text{COO})_2$	142.3 grams/mole
37) aluminum sulfate	$\text{Al}_2(\text{SO}_4)_3$	342.3 grams/mole
38) copper (I) carbonate	Cu_2CO_3	187.0 grams/mole
39) barium oxide	BaO	153.3 grams/mole
40) ammonium sulfite	$(\text{NH}_4)_2\text{SO}_3$	116.1 grams/mole
41) silver bromide	AgBr	187.8 grams/mole
42) lead (IV) nitrite	$\text{Pb}(\text{NO}_2)_4$	391.2 grams/mole