

Compound Name	Indicate Type of Compound: I = ionic, A= acid, M = molecular	Write your answer here
manganese (II) bromite	I	$\text{Mn}(\text{BrO}_2)_2$
manganese (II) phosphite	I	$\text{Mn}_3(\text{PO}_3)_2$
rubidium sulfite	I	Rb_2SO_3
hydroselenic acid	A	$\text{H}_2\text{Se}_{(\text{aq})}$
sodium perbromate	I	NaBrO_4
cobalt (III) chromate	I	$\text{Co}_2(\text{CrO}_4)_3$
antimony (V) nitrite	I	$\text{Sb}(\text{NO}_2)_5$
chloric acid	A	$\text{HClO}_{3(\text{aq})}$
pentaselenium decabromide	M	$\text{Se}_5\text{Br}_{10}$
disulfur decachloride	M	S_2Cl_{10}
nickel (III) nitrate	I	$\text{Ni}(\text{NO}_3)_3$
copper (II) bromide	I	CuBr_2
nickel (II) hydrogen phosphate	I	NiHPO_4
iron (II) hydrogen sulfate	I	$\text{Fe}(\text{HSO}_4)_2$
bismuth (V) acetate	I	$\text{Bi}(\text{C}_2\text{H}_3\text{O}_2)_5$
sulfurous acid	A	$\text{H}_2\text{SO}_{3(\text{aq})}$
sulfuric acid	A	$\text{H}_2\text{SO}_{4(\text{aq})}$
nickel (II) chloride	I	NiCl_2
tin (IV) phosphate	I	$\text{Sn}_3(\text{PO}_4)_4$
mercury (I) iodate	I	$\text{Hg}_2(\text{IO}_3)_2$

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Co(HCO ₃) ₂	I (with VOS metal)	cobalt (II) hydrogen carbonate
Cs ₂ S	I	cesium sulfide
Ca(IO ₂) ₂	I	calcium iodite
Ba ₂ C	I	barium carbide
Mn(CO ₃) ₂	I (with VOS metal)	manganese (IV) carbonate
CuBrO ₂	I (with VOS metal)	copper (I) bromite
AgHS	I	silver hydrogen sulfide
C ₉ N ₁₀	M	nonacarbon decanitrile
CrI ₂	I (with VOS metal)	chromium (II) iodide
Mg(NO ₃) ₂	I	magnesium nitrate
HC ₂ H ₃ O ₂ (aq)	A	acetic acid
HClO ₂ (aq)	A	chlorous acid
Be(IO ₄) ₂	I	beryllium periodate
HIO ₄ (aq)	A	periodic acid
BaO	I	barium oxide
Cd(BrO ₃) ₂	I	cadmium bromate
Bi(CN) ₅	I (with VOS metal)	bismuth (V) cyanide
AuHS	I (with VOS metal)	gold (I) hydrogen sulfide
AuClO	I (with VOS metal)	gold (I) hypochlorite
Na ₂ CO ₃	I	sodium carbonate

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bismuth (III) phosphide	I	BiP
antimony (V) oxide	I	Sb ₂ O ₅
ammonium carbonate	I	(NH ₄) ₂ CO ₃
nitrous acid	A	HNO _{2(aq)}
barium fluoride	I	BaF ₂
iron (II) hydrogen sulfate	I	Fe(HSO ₄) ₂
magnesium nitrite	I	Mg(NO ₂) ₂
beryllium iodate	I	Be(IO ₃) ₂
cadmium chromate	I	CdCrO ₄
gold (I) hydrogen phosphate	I	Au ₂ HPO ₄
bismuth (III) hydrogen sulfide	I	Bi(HS) ₃
cesium oxalate	I	Cs ₂ C ₂ O ₄
tin (II) iodite	I	Sn(IO ₂) ₂
beryllium acetate	I	Be(C ₂ H ₃ O ₂) ₂
tin (II) sulfate	I	SnSO ₄
antimony (V) carbide	I	Sb ₄ C ₅
cobalt (III) hydride	I	CoH ₃
sodium carbide	I	Na ₄ C
dinitrogen triselenide	M	N ₂ Se ₃
potassium hypoiodite	I	KIO

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$\text{Sb}_3(\text{BO}_3)_5$	I (with VOS metal)	antimony (V) borate
NiF_3	I (with VOS metal)	nickel (III) fluoride
C_8O_3	M	octacarbon trioxide
$\text{HBrO}_2 \text{ (aq)}$	A	bromous acid
$\text{Bi}(\text{ClO}_2)_3$	I (with VOS metal)	bismuth (III) chlorite
$\text{H}_2\text{C}_2\text{O}_4\text{(aq)}$	A	oxalic acid
O_6F_{10}	M	hexoxygen decafluoride
$\text{HC}_2\text{H}_3\text{O}_2\text{(aq)}$	A	acetic acid
$\text{Si}_{10}\text{As}_5$	M	decasilicon pentaarsenide
N_2O_7	M	dinitrogen heptoxide
Cl_4O_3	M	tetrachlorine trioxide
Hg_2Se	I (with VOS metal)	mercury (I) selenide
Li_4C	I	lithium carbide
CrC_2O_4	I (with VOS metal)	chromium (II) oxalate
NiAsO_4	I (with VOS metal)	nickel (III) arsenate
$\text{Mg}(\text{ClO}_4)_2$	I	magnesium perchlorate
Au_3BO_3	I (with VOS metal)	gold (I) borate
$\text{Zn}(\text{IO})_2$	I	zinc hypoiodite
I_5Cl_8	M	pentaiodine octachloride
$\text{Mn}(\text{HCO}_3)_2$	I (with VOS metal)	manganese (II) hydrogen carbonate

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cobalt (III) carbide	I	Co_4C_3
aluminum sulfate	I	$\text{Al}_2(\text{SO}_4)_3$
diphosphorous octaoxide	M	P_2O_8
manganese (II) phosphate	I	$\text{Mn}_3(\text{PO}_4)_2$
selenic acid	A	$\text{H}_2\text{SeO}_{4(\text{aq})}$
hexaiodine nonanitride	M	I_6N_9
nitric acid	A	$\text{HNO}_{3(\text{aq})}$
mercury (I) nitride	I	$(\text{Hg}_2)_3\text{N}_2$
aluminum perchlorate	I	$\text{Al}(\text{ClO}_4)_3$
chromic acid	A	$\text{H}_2\text{CrO}_{4(\text{aq})}$
lithium hydrogen sulfide	I	LiHS
cobalt (II) sulfate	I	CoSO_4
cesium sulfate	I	Cs_2SO_4
manganese (II) chromate	I	MnCrO_4
lead (II) hydride	I	PbH_2
ammonium nitrate	I	NH_4NO_3
sodium chlorate	I	NaClO_3
radium hydrogen carbonate	I	$\text{Ra}(\text{HCO}_3)_2$
copper (I) hydrogen sulfate	I	CuHSO_4
arsenic (V) nitrate	I	$\text{As}(\text{NO}_3)_5$

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$\text{Pb}(\text{HPO}_4)_2$	I (with VOS metal)	lead (IV) hydrogen phosphate
$\text{Sn}(\text{BrO}_4)_2$	I (with VOS metal)	tin (II) perbromate
$\text{Si}_3\text{As}_{10}$	M	trisilicon decaarsenide
$\text{N}_{10}\text{O}_{10}$	M	decanitrogen decoxide
$\text{HBrO}_{(\text{aq})}$	A	hypobromous acid
$\text{Fe}(\text{OH})_3$	I (with VOS metal)	iron (III) hydroxide
I_5F_3	M	pentaiodine trifluoride
$\text{H}_2\text{SO}_{3(\text{aq})}$	A	sulfurous acid
ZnHPO_4	I	zinc hydrogen phosphate
Au_2SO_3	I (with VOS metal)	gold (I) sulfite
$\text{Hg}(\text{IO}_4)_2$	I (with VOS metal)	mercury (II) periodate
$\text{Ra}(\text{BrO}_3)_2$	I	radium bromate
MnSO_3	I (with VOS metal)	manganese (II) sulfite
$\text{HIO}_{3(\text{aq})}$	I	iodic acid
CBr	M	carbon bromide
$\text{Mn}(\text{BrO})_2$	I (with VOS metal)	manganese (II) hypobromite
S_2O_7	M	disulfur heptoxide
BeCrO_4	I	beryllium chromate
$\text{HBrO}_{3(\text{aq})}$	A	bromic acid
SrS	I	strontium sulfide

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bismuth (III) selenide	I	Bi_2Se_3
nickel (III) hydrogen phosphate	I	$\text{Ni}_2(\text{HPO}_4)_3$
nonanitrogen tetroxide	M	N_9O_4
lithium hypochlorite	I	LiClO
cobalt (III) cyanide	I	$\text{Co}(\text{CN})_3$
hydroselenic acid	A	$\text{H}_2\text{Se}_{(\text{aq})}$
manganese (IV) hydrogen phosphate	I	$\text{Mn}(\text{HPO}_4)_2$
copper (II) borate	I	$\text{Cu}_3(\text{BO}_3)_2$
iron (III) sulfate	I	$\text{Fe}_2(\text{SO}_4)_3$
nickel (III) phosphite	I	NiPO_3
hydroiodic acid	A	$\text{HI}_{(\text{aq})}$
hexasilicon heptoxide	M	Si_6O_7
pentaarsenic triphosphide	M	As_5P_3
hexacarbon trioxide	M	C_6O_3
antimony (V) hypoiodite	I	$\text{Sb}(\text{IO})_5$
sodium hypobromite	I	NaBrO
sulfurous acid	A	$\text{H}_2\text{SO}_{3(\text{aq})}$
lithium oxalate	I	$\text{Li}_2\text{C}_2\text{O}_4$
aluminum chlorite	I	$\text{Al}(\text{ClO}_2)_3$
hydrofluoric acid	A	$\text{HF}_{(\text{aq})}$

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HMnO _{4(aq)}	A	permanganic acid
AuHCO ₃	I (with VOS metal)	gold (I) hydrogen carbonate
KF	I	potassium fluoride
CrPO ₄	I (with VOS metal)	chromium (III) phosphate
Ca(ClO ₂) ₂	I	calcium chlorite
Ni ₂ O ₃	I (with VOS metal)	nickel (III) oxide
SeC ₉	M	selenium nonacarbide
Fe(IO ₄) ₃	I (with VOS metal)	iron (III) periodate
PO ₄	M	phosphorous tetroxide
SCl ₁₀	M	sulfur decachloride
BaO	I	barium oxide
Au(IO ₃) ₃	I (with VOS metal)	gold (III) iodate
H ₃ PO _{4(aq)}	A	phosphoric acid
Cs ₂ CrO ₄	I	cesium chromate
SnF ₄	I (with VOS metal)	tin (IV) fluoride
Ni(ClO ₂) ₂	I (with VOS metal)	nickel (II) chlorite
Al ₂ (SO ₃) ₃	I	arsenic (V) sulfite
FeO	I (with VOS metal)	iron (II) oxide
Hg ₂ (MnO ₄) ₂	I (with VOS metal)	mercury (I) permanganate
Cl ₁₀ F ₅	M	decachlorine pentafluoride

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antimony (III) bromide	I	SbBr ₃
hydroiodic acid	A	HI _(aq)
lithium fluoride	I	LiF
octaarsenic trisulfide	M	As ₈ S ₃
copper (I) phosphite	I	Cu ₃ PO ₃
nickel (III) hydride	I	NiH ₃
titanium (III) hydrogen carbonate	I	Ti(HCO ₃) ₃
arsenic acid	I	H ₃ AsO _{4(aq)}
chromium (III) nitride	I	CrN
strontium hydrogen sulfate	I	Sr(HSO ₄) ₂
magnesium hydroxide	I	Mg(OH) ₂
antimony (V) acetate	I	Sb(C ₂ H ₃ O ₂) ₅
cobalt (III) chromate	I	Co ₂ (CrO ₄) ₃
zinc hydrogen sulfite	I	Zn(HSO ₃) ₂
copper (II) bromide	I	CuBr ₂
nickel (II) hydrogen sulfide	I	Ni(HS) ₂
magnesium bromite	I	Mg(BrO ₂) ₂
antimony (V) selenate	I	Sb ₂ (SeO ₄) ₅
mercury (II) sulfite	I	HgSO ₃
phosphorous acid	A	H ₃ PO _{3(aq)}

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Mn ₃ N ₄	I (with VOS metal)	manganese (IV) nitride
Ni(IO) ₃	I (with VOS metal)	nickel (III) hypoiodite
Sn(ClO) ₄	I (with VOS metal)	tin (IV) hypochlorite
Sb(HSO ₃) ₃	I (with VOS metal)	antimony (III) hydrogen sulfite
CO ₃ ⁻²	this is an ION not a compound!	carbonate
Al(MnO ₄) ₃	I	aluminum permanganate
Li ₂ CrO ₄	I	lithium chromate
FeP	I (with VOS metal)	iron (III) phosphide
KHSO ₄	I	potassium hydrogen sulfate
HNO _{2(aq)}	A	nitrous acid
SnCO ₃	I (with VOS metal)	tin (II) carbonate
Cl ₉ O ₇	M	nonachlorine heptoxide
FeBO ₃	I (with VOS metal)	iron (III) borate
H ₂ Se _(aq)	A	hydroselenic acid
Fe(NO ₃) ₂	I (with VOS metal)	iron (II) nitrate
ZnSO ₄	I	zinc sulfate
H ₂ S _(aq)	A	hydrosulfuric acid
SeN ₂	M	selenium dinitride
BaSO ₃	I	barium sulfite
Bi ₃ P ₅	I (with VOS metal)	bismuth (V) phosphide