

Name _____

Date _____

GRCI CHEMISTRY

Nomenclature
Molecular Elements
and
Molecular Compounds

	Formula	Description for interest only	Name
1.	CCl ₄	toxic cleaning fluid	
2.		78% of air	nitrogen
3.		21% of air	oxygen
4.	CO ₂	0.035% of air	
5.	NO	in automobile exhaust	
6.	NO ₂	Los Angeles type smog	
7.		London type smog	sulphur dioxide
8.	SO ₃	air pollutant - makes sulphuric acid	
9.		colourless, odourless poison	carbon monoxide
10.		in upper atmosphere	ozone
11.		grain alcohol, ethyl alcohol	ethanol
12.		table sugar	sucrose
13.		yellow solid in group VI	sulphur
14.	P ₄ O ₁₀	oxides formed by combustion of the element phosphorus	
15.	P ₄ O ₈		
16.		chlorination of water	chlorine dioxide
17.		methyl alcohol, methyl hydrate	methanol
18.		spontaneously combusts in air	phosphorus
19.		a cleaner when dissolved in water	ammonia
20.	CH ₄	natural gas	
21.	HCl	a gas - makes hydrochloric acid	
22.		laughing gas	dinitrogen oxide
23.		dissolves in alcohol	iodine
24.	H ₂ O	the most common solvent	

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Nomenclature
Molecular Compounds

	Molecular Formula	Name
1.	Si ₂ Br ₆	
2.		tetraphosphorus hexaoxide
3.		selenium disulphide
4.	BrCl	
5.	As ₂ Se ₅	
6.	N ₂ H ₅	
7.		iodine heptafluoride
8.		dinitrogen tetraoxide
9.	P ₄ S ₁₀	
10.	S ₂ O ₇	
11.		diboron nonaoxide
12.		selenium dicarbide
13.		phosphorus trifluoride
14.	Br ₃ O ₈	
15.	As ₃ P ₆	
16.	B ₂ S ₅	
17.	CS ₂	
18.		phosphorus pentafluoride
19.		selenium tetrafluoride
20.	B ₄ H ₉	

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SCH

Nomenclature

Binary Ionic Compounds

	Formula	Description for interest only	Name
1	CaCl ₂	on roads to keep down dust	
2		dietary supplement for iodine	potassium iodide
3	MgO	in fire bricks	
4		antiperspirant	aluminum chloride
5	Na ₂ S	used to dehair hides	
6	Al ₂ O ₃	aluminum ore (bauxite)	
7		black powder	lithium nitride
8	CaO	quicklime	
9		heart stimulant	barium chloride
10		table salt	sodium chloride
11	ZnO	UV blocker	
12		photographic emulsion	silver bromide
13		ignites on contact with air	magnesium hydride
14	MgCl ₂	11% of salt in sea water	
15		in soldering paste	zinc chloride
16	Ag ₂ S	tarnish on silverware	
17		potash fertilizer	potassium chloride
18	CaF ₂	used to fluoridate drinking water	
19		zinc ore	zinc sulphide
20		white solid	gallium fluoride
21		phosphorescent dye	zinc selenide
22	CdSe	in photocells	
23	BaF ₂	in embalming	
24		reacts with water to release ammonia	beryllium nitride

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Nomenclature

Binary Ionic Compounds

Multiple Valence

	Formula	Description for interest only	Name
1	Cu ₂ S	copper ore	
2		uranium ore	uranium(IV) oxide
3		lead ore (galena)	lead(IV) sulphide
4	SnO ₂	tin ore (cassiterite)	
5		manganese ore (pyrolusite)	manganese(IV) oxide
6	Sb ₂ S ₃	antimony ore (stibnite)	
7		iron ore (hematite)	iron(III) oxide
8	HgS	mercury ore (cinnabar)	
9	MoS ₃	molybdenum ore (molybdenite)	
10		manufacture of artificial pearls	titanium(IV) chloride
11	FeS	also in chalcopyrite	
12		electrode in car battery	lead(IV) oxide
13	HgO	used to make oxygen in labs	
14	V ₂ O ₅	pigment for yellow glass	
15		toothpaste additive	tin(II) fluoride
16		a green paint pigment	chromium(III) oxide
17	TiO ₂	a white paint pigment	
18	AuCl ₃	gives colour in ruby glass	
19		separation of uranium isotopes	uranium(VI) fluoride
20	NiBr ₂	forms a green coloured solution	
21		invisible ink	cobalt(II) chloride
22		purifying natural gas	manganese(II) chloride
23	PtO ₂	catalyst for hydrogenating oils	
24	Sb ₂ S ₅	in fireworks	