"Atoms"--- HGS Biochemistry Molecular Models

Atom	color	valence electrons	shape of parts	tetrahedral, triangular and others					linear	Hydrogen bond
									水素分子	水素結合部品
H	light blue	$1s^1$							H_2	
C	black	$2s^2 2p^2$		methan CH_4	ethan C_2H_6	benzen C_6H_6	ethylene C_2H_4		acetylene C_2H_2	
N	blue	$2s^2 2p^3$		ammonia NH_3	hydroxylamin NH_2OH	nitrobenzene $C_6H_5NO_2$	alanine $C_3H_7NO_2$		dinitrogen monoxid N_2O	peptide
O	red	$2s^2 2p^4$		epoxide H_2O 109.°28'(105°)	Water CH_3CH_2OH 109°28'	ethanol $C_6H_{12}O_6$ 109°28'	α-glucose $C_{12}H_{22}O_{11}$ ブリッジ120°	Maltose SiO_2 144°44'	carbonic acid gas CO_2	ice $H\text{-}O\text{-}H\cdots O\text{-}H_2$
F	brown	$2s^2 2p^5$								
Cl	green	$3s^2 3p^5$								

atom	valence electrons	pentagonal bipyramidal	octahedral	trigonal bipyramidal	tetrahedral oxygen acid	
				phosphorous pentachloride	phosphoric acid	phosphorus fluoride
P	$3s^2 3p^3$			PCl_5 ※	H_3PO_4	PF_3
yellow or others						
			sulfur hexafluoride		sulfuric acid	
S	$3s^2 3p^4$		SF_6 ※		H_2SO_4	
yellow or others						
Fe	$3d^6 4s^2$		porphyrin core			
Co	$3d^7 4s^2$ red and grey		Trisethylenediamincobalt (Ⅲ) salt $[Co(en)_3]^{3+}$			
		iodine fluoride]				
I	$4d^{10} 5s^2 5p^5$ red and grey	IF7				