"Atoms"--- HGS Streochemistry Molecular Models

Atom	color	valence electrons	shape of parts				tetrahedral, triangular and others					linear	Hydrogen bond
												H_2	
H	light blue	$1s^1$											
C	black	$2s^2 2p^2$				cyclopropane C_3H_6	methan CH_4	ethan C_2H_6	benzen C_6H_6	ethylene C_2H_4		acetylene C_2H_2	
N	blue	$2s^2 2p^3$				aziridine C_2H_4N	ammonia NH_3	hydroxylamine NH_2OH	nitrobenzene $C_6H_5NO_2$	alanine $C_3H_7NO_2$		dinitrogen monoxid N_2O	peptide N-H----O-C
O	red	$2s^2 2p^4$				epoxide C_2H_4O	Water H_2O	ethanol CH_3CH_2OH	α-glucose $C_6H_{12}O_6$	Maltose $C_{12}H_{22}O_{11}$		carbonic acid gas CO_2	ice H-O-H---O-H_2
							109°28'(105°	109°28'	109°28'	bridge120°			
F	brown	$2s^2 2p^5$											
Cl	green	$3s^2 3p^5$											
Br	purple	$4s^{24} p^5$											
atom		valence electrons	pentagonal bipyramidal	octahedral	trigonal bipyramidal	tetrahedral: oxygen acid							
				phosphorous pentachloride		phosphoric acid	phosphorus fluoride						
P	yellow or others	$3s^2 3p^3$			PCl_5 ※	H_3PO_4	PF_3						
		$3s^2 3p^4$		SF6 ※		H_2SO_4							
			sulfur hexafluoride			sulfuric acid							
S	yellow or others												
Fe	yellow / red	$3d^6 4s^2$		porphyrin core									
Co	yellow / grey	$3d^7 4s^2$		Trisethylenediamincobalt (Ⅲ) salt $[Co(en)_3]^{3+}$									
			iodine fluoride]										
I	yellow / white	$4d^{10} 5s^2 5p^5$	IF7										