

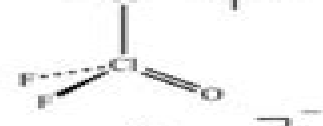
- e. $\text{S}_2\text{O}_8^{2-}$ has SO_2 units with an angle of about 30° between their planes, in an eclipsed conformation.



- f. N_2H_4 has a trigonal pyramidal shape at each N, and a *gauche* conformation. There is one lone pair on each N.

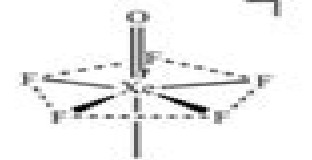


- g. ClOF_2^- is a distorted trigonal pyramid with one lone pair and double bond character in the Cl—O bond.



- h. CS_2 , like CO_2 , is linear with double bonds. $\text{S}=\text{C}=\text{S}$

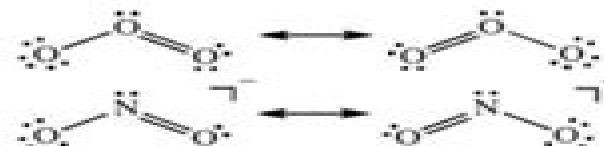
- i. The structure of XeOF_5^- is based on a pentagonal bipyramid, with a lone pair and the oxygen atom in axial positions. See K. O. Christie et al., *Inorg. Chem.*, **1995**, *34*, 1868 for evidence in support of this structure.



3.11 All the halate ions are trigonal pyramids; as the central atom increases in size, the bonding pairs are farther from the center, and the lone pair forces a smaller angle. The decreasing electronegativity $\text{Cl} > \text{Br} > \text{I}$ of the central atom also allows the electrons to be pulled farther out, reducing the *bp-bp* repulsion.

- 3.12** a. AsH_3 should have the smallest angle, since it has the largest central atom. This minimizes the bond pair—bond pair repulsions and allows a smaller angle. Arsenic is also the least electronegative central atom, allowing the electrons to be drawn out farther and lowering the repulsions further. Actual angles: $\text{AsH}_3 = 91.8^\circ$, $\text{PH}_3 = 93.8^\circ$, $\text{NH}_3 = 106.6^\circ$.
- b. Cl is larger than F, and F is more electronegative and should pull the electrons farther from the S, so the F—S—F angle should be smaller in OSF_2 . This is consistent with the experimental data: the F—S—F angle in OSF_2 is 92.3° and the Cl—S—Cl angle in OSCl_2 is 96.2° .

- c. NO_2^- has rather variable angles (115° and 132°) in different salts. The sodium salt (115.4°) has a slightly smaller angle than O_3 (116.8°). The N—O electronegativity difference should pull electrons away from N, reducing the *bp-bp* repulsion and the angle.



- d. BrO_3^- (104°) has a slightly smaller angle than ClO_3^- (107°), since it has a larger central atom. In addition, the greater electronegativity of Cl holds the electrons closer and increases *bp-bp* repulsion.

- 3.13** a. N_3^- is linear, with two double bonds. O_3 is bent (see solution to 3.12.c), with one double bond and a lone pair on the central O caused by the extra pair of electrons.

Miessler Tarr 4th Edition Solutions Manual

John G. Verkade



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web prophase prometaphase the cell prepares for mitosis at this stage the chromosomes are not clearly visible the chromosomes pairs of sister chromatids condense and become visible meanwhile the nucleolus and nuclear envelope disappear the centrioles begin moving to opposite ends of the cell and start forming the mitotic spindle metaphase

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web note if a u1 or u7 error code is generated see next pagepage 71 slide 72 2012 daikin ac when a single module condenser is in unit stop due to a u1 fault code the main causes are reversed phase or open phase with a u1 fault code the compressor s in the condenser will not operate

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web jul 17 2022 u1 incorrect reversed phase fault and fix vrv power off the outdoor unit when you get this error swap any two of the l1 l2 and l3 phase wires u2 input voltage supply malfunction and fix 380v from l1 l2 l3 phase ends 220 v between phase ends and n terminal if they are normal measure the supply wires of the inverter board

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web 1 this page provides a simple explanation concerning content relating to error codes and their possible causes please note that the content may slightly differ depending on models 2 this page is intended for dealers with experience in repairing daikin air conditioners and is not for end users

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web a1 external protection device activated malfunction of indoor unit pcb e5 e6 e6 e7 e9 e8 external protection device connected to the terminal strip k t1 t2 of indoor unit is activated e0 e1 unifi ed protection devices activated

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web yes no vacuum test start pressure vacuum test time vacuum test end pressure visual inspection air side outdoor unit correct water side outdoor unit correct air side indoor unit correct piping distance Ø6 4 mm piping distance Ø9 5 mm piping distance Ø12 7 mm piping distance Ø15 9 mm piping distance Ø19 1 mm piping distance Ø22 2 mm

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is true why have the units ran for the last 4 years i cant understand why both units are faulting with the same fault some suggestions on what to check would be good also this fault started with ja and e3 faults on all the controls but

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web this unit emphasize on the diagnosing and fault rectification of the vrv system fault rectification methods includes using error codes and functional test of selected components topics overview of system errors codes inspection methods for components usage of self diagnostic function field settings using remote controller outdoor pcb

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web when the latest error codes were reset by accident on an indoor unit user interface they can be checked again through this monitoring settings detailed information about error code can be