

- b. Adding an electron to  $O_3$  decreases the angle, as the odd electron spends part of its time on the central O, making two positions for electron repulsion. The decrease in angle is small, however, with angles of 113.0 to 114.6 pm reported for alkali metal ozonides (see W. Klein, K. Armbruster, M. Jansen, *Chem. Commun.*, **1998**, 707) in comparison with 116.8° for ozone.

3.14

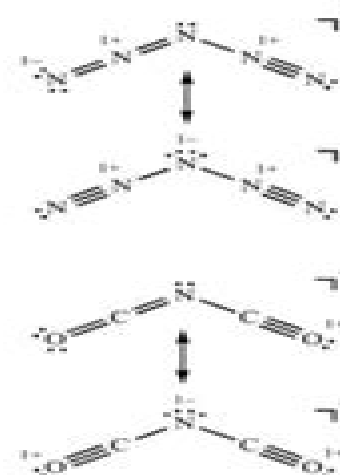


As the groups attached to oxygen become less electronegative, the oxygen atom is better able to attract shared electrons to itself, increasing the *bp-bp* repulsions and increasing the bond angle. In the case of  $O(SiH_3)_2$ , the very large increase in bond angle over  $O(CH_3)_2$  suggests that the size of the  $SiH_3$  group also has a significant effect on the bond angle.

3.15

$C_3O_2$  has the linear structure  $O=C-C-C=O$ , with zero formal charges.

$N_5^+$  with the same electronic structure has formal charges of 1-, 1+, 1+, 1+, 1-, unlikely because three positive charges are adjacent to each other. Changing to  $N=N=N-N=N$  results in formal charges of 1-, 1+, 0, 1+, 0, a more reasonable result with an approximately trigonal angle in the middle. With triple bonds on each end, the formal charges are 0, 1+, 1-, 1+, 0 and a tetrahedral angle. Some contribution from this would reduce the bond angle.



$OCNCO^+$  can have the structure  $O=C-N-C=O$ , with formal charges of 1+, 0, 1-, 0, 1+ and two lone pairs on the central N. This would result in an even smaller angle in the middle, but has positive formal charges on O, the most electronegative atom.  $O=C=N-C=O$  has a formal charge of 1+ on the final O. Resonance would reduce that formal charge, making this structure and a trigonal angle more likely. The Seppelt reference also mentions two lone pairs on N and cites "the markedly higher electronegativity of the nitrogen atom with respect to the central atom in  $C_3O_2$ , which leads to a higher localization of electron density in the sense of a nonbonding electron pair." Therefore, the bond angles should be  $OCNCO^+ > OCNCO^+ > N_5^+$ . Literature values are 180°, 130.7°, and 108.3 to 112.3° (calculated), respectively.

3.16

a.



In ethylene, carbon has *p* orbitals not involved in sigma bonding. These orbitals interact to form a pi bond between the carbons, resulting in planar geometry. (Sigma and pi

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**William Joseph Pietro**



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