VSEPR for Chemistry 1000: The Silberberg Summary and Representation on Paper



The Two-Electron Pair Shape Family

 $\underline{C}S_2$

Examples

Practice



Note that *separate diagrams* should be used for the Lewis Diagram and the VSEPR structure. The VSEPR diagram should be *accurate for structure* and does not show bonding. Always indicate the bond angles, (i) on the diagram as shown, or (ii) catalogued beside the picture as follows: \angle (FBeF) = 180° This method is useful when there are *lots* of values.

BeH₂

 $\underline{C}O_2$

$$\frac{BeF_2}{HCN} \stackrel{\text{if}}{=} -Be \stackrel{\text{if}}{=} \stackrel{\text{if}}{=$$

NCO⁻ The ∠ symbol mean taken from geometry
$$\angle$$
 (ABA) = 120° or ∠ or ∠(ABA) < 120° a

The \angle symbol means "angle" and is taken from geometry. Thus the \angle (ABA) = 120° or \angle (ABA) > 120° or \angle (ABA) < 120° are all possible designations.

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