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resonance structures which describe the predominant contributions to the bonding. Which statement is incorrect about this set of resonance structures? Each resonance structure possesses two localized N=O double bonds

[CHM307] Appropriate hybridization schemes for the C atoms in molecular $\CH_{3}CO_{2}H\$ are $\sp^{3}\$ and $\sp^{2}\$

[CHM307] nIn the equation for the normalized wavefunction: $\tilde{A} \Box \ddot{E} \dagger sp = N\tilde{A} \Box \ddot{E} \dagger sp = N\tilde{A}$

[CHM307] An MO diagram for a model compound \(XH_{6}\) (Oh) can be constructed by considering the interactions between the orbitals of atom X and the LGOs for the Oh \(H_{6}\) fragment. What are the correct symmetry labels for these LGOs? \(a_{1g}\), \(t_{2g}\), \(e_{g}\)

[CHM307] Which statement is true about the bonding in $(B_{2}H_{6})$? Bonding pictures for $(B_{2}H_{6})$ involve multicentre bridge bonds

[CHM307] The bonding in $\(XH_{3}\)$ can be considered in terms of the interactions between the orbitals of atom X and the LGOs of the $\(H_{3}\)$ fragment. For the LGOs, when X = B, the in-phase combination of H 1s orbitals has a1' symmetry, but when X = N, it has a1 symmetry. This is because:

 $\MAR(D_{3}\)$ has $\C_{3v}\)$ symmetry, but $\BH_{3}\)$ belongs to the $\D_{3h}\)$ point group

[CHM307] In monomeric \(BH_{3}\), let an axis definition place the molecule in the xz plane. Which atomic orbital on B is non-bonding? \((2p_{y}\))

[CHM307] sp hybridization for the C atom in \(CS_{2}\) is all that is required to allow for the formation of the $\tilde{A}\Box\mathcal{A}E$ ' components of two double bonds

[CHM307] In an MO diagram for the formation of \(H_{2}O\) in which the z axis bisects the $H\tilde{A}\phi\hat{a},\neg\hat{a}\in\omega O\tilde{A}\phi\hat{a},\neg\hat{a}\in\omega H$ angle, what happens? the O \(2p_{z}\) atomic orbital interacts with an out-of-phase combination of H 1s atomic orbitals

[CHM307] \(sp^{3}\) hybridization would not be appropriate for the central atom in (XeF_{4})

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