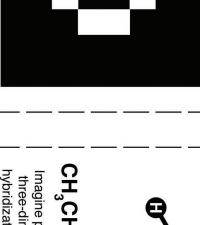


hybridizations of the carbon atoms Imagine ethylene, C_2H_4 , in three-dimensions. What are the

and what are the bond angles?

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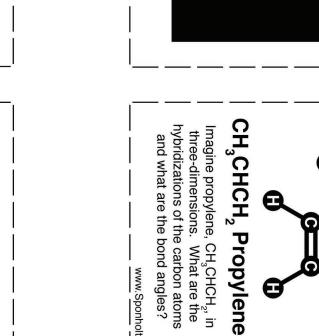




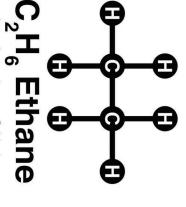
C₂H₂ Acetylene

hybridizations of the carbon atoms Imagine acetylene, C_2H_2 , in three-dimensions. What are the and what are the bond angles?



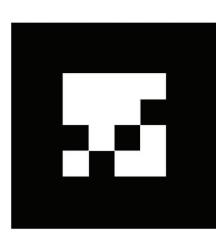


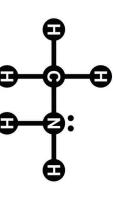
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hybridizations of the carbon atoms three-dimensions. What are the and what are the bond angles? Imagine ethane, C₂H₆, in

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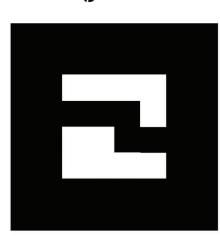


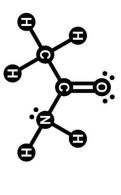


CH₃NH₂ Methylamine

Imagine methylamine, CH₃NH₂, in three-dimensions. What is the hybridization of the carbon and nitrogen atoms and what are the bond angles?

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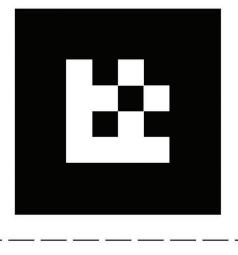




CH₃CONH₂ Acetamide

Imagine acetamide, CH₃CONH₂, in three-dimensions. What are the hybridizations of the carbon and nitrogen atoms and what are the bond angles?

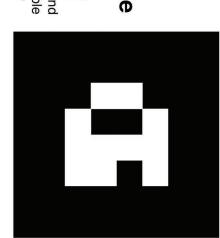
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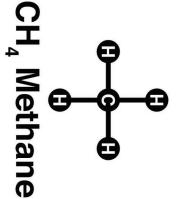


CO₂ Carbon Dioxide

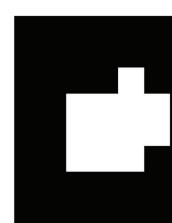
Imagine carbon dioxide, CO₂, in three-dimensions. What are the hybridizations of the carbon and oxygen atoms and what are the bond angles? Are the two adjacent double bonds (pi bonds) perpendicular?



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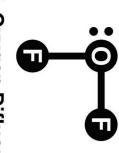


Imagine methane, CH₄, in three-dimensions. What is the hybridization of the carbon atom and what are the bond angles?



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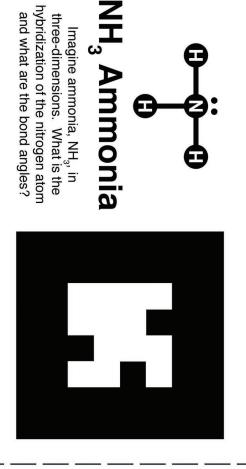




OF₂ Oxygen Difluoride

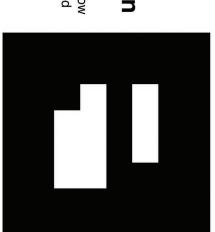
Imagine oxygen difluoride, OF₂, in three-dimensions and indicate any deviations from ideal bond angles.

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Hybridized Carbon sp³, sp², and sp

hybridized carbon atom in 3-D. How many hybridized and unhybridized Imagine a sp³, sp², and a sp lobes does each have?



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