

Organic Chemistry 1 ACS Questions

Final Exam With complete solution

2024/25

sp, linear - Which is the correct hybridization state and geometry for the carbon atom in HCN?

- sp, linear
- sp², trigonal planar
- sp³, tetrahedral
- None of the above

This structure has one positive charge and one negative charge. - The following structure has been drawn without formal charges. Which statement describes the missing formal charge(s)?

- This structure has one positive charge and one negative charge.
- This structure has one positive charge but no negative charges.
- This structure has one negative charge but no positive charges.
- This structure has no formal charges.

sp²-sp³ - The indicated σ bond results from the overlap of which orbitals?

- sp²-sp²
- sp-sp³
- sp-sp²
- sp²-sp³

Trigonal planar - Of the following molecular geometries, which has the largest bond angle?

- Pyramidal
- Tetrahedral
- Trigonal planar
- Bent

13 - How many σ bonds are in the following compound?

- 8
- 9
- 13
- 14

Y, because the dipole moments do not fully cancel. - Which compound has the higher boiling point? Explain briefly.

- X, because the dipole moments are far apart.
- Y, because the dipole moments do not fully cancel.
- Y, because it is less branched.

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Terry C. Jones



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