

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.

Acs Solution Manual Organic Chemistry

Terry C. Jones

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chemistry Dr Zhdankin has authored numerous articles book chapters and textbooks addressing various topics in the world of chemistry Peter Grundt earned his Ph D from the University of Duisburg He is an assistant professor of chemistry at University of Minnesota Duluth where he teaches courses in organic chemistry His research interests include bioorganic and medicinal chemistry heterocyclic chemistry and the design and synthesis of pharmacological tools to study the obligate parasite *Toxoplasma gondii* Sangeeta Mereddy earned her M S in chemistry from the University of Hyderabad in India and her Ph D in chemistry from the Indian Institute of Technology She is an assistant professor of chemistry at the University of Minnesota Duluth

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