

CONFORMATIONAL ANALYSIS – PRACTICE EXERCISES

10. Draw a Newman projection of the most stable conformation of 2-methylpropane.

11. The structures below are



- A) ethane.
- B) conformational isomers.
- C) structural isomers.
- D) both B and C.

12. Define the term *conformation*.

13. Draw a *staggered* molecule along the C_2-C_3 bond and provide a *Newman* projection of the *lowest energy* conformer.

14. Provide a representation of the *gauche* conformer of butane.

15. Among the *staggered* conformers, which *isomer* of energy *isomer* is a graph of potential energy versus *rotational angle*?

- A) *gauche* only.
- B) *eclipsed* and *staggered*.
- C) *staggered* and *anti*.
- D) *eclipsed* only.
- E) *anti* only.

16. Which of the following substituents exhibits the *greatest* *steric* *hindrance* *per* $-CH_3$ *group*?

- A) *tert*-butyl. B) *isopropyl*. C) *cyclohexyl*. D) *vinyl*. E) *phenyl*.

17. Which of the following correctly ranks the substituents in order of *decreasing* *steric* *hindrance* *per* $-CH_3$ *group*?

- A) *tert*-butyl > *cyclohexyl* > *isopropyl* > *vinyl*
- B) *tert*-butyl > *isopropyl* > *cyclohexyl* > *isopropyl*
- C) *cyclohexyl* > *tert*-butyl > *isopropyl* > *isopropyl*
- D) *isopropyl* > *isopropyl* > *cyclohexyl* > *tert*-butyl
- E) *isopropyl* > *cyclohexyl* > *cyclohexyl* > *tert*-butyl

18. Describe the *number* of *angle* *strain* *and* *torsional* *strain* *present* *in* *cyclohexane*.

Conformational Analysis Practice Exercises

J Elliott



Conformational Analysis Practice Exercises:

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