

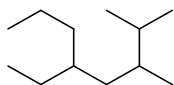
Organic Chemistry 1

Mock Quiz #1

September 11, 2026

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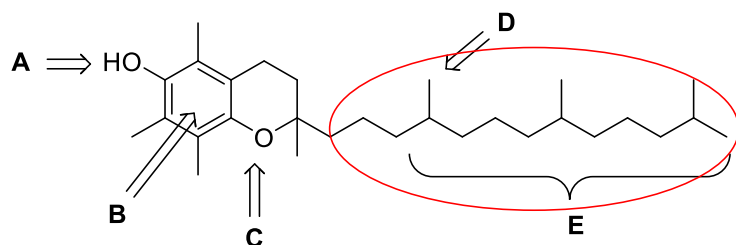
1. Name the following compound. (3 pts.)



5-ethyl-2,3-dimethyloctane

2. The structure of the antioxidant vitamin E is shown below. Provide the requested information about functional groups, alkyl group names and intermolecular forces.

vitamin E



a) Name the functional group: (1 pt. each)

A. alcohol B. benzene/phenyl/aromatic C. ether
E. alkane or alkyl

b) What type of carbon atom is shown at D? (Circle one, 1 pt.)

(i) **primary** ii) secondary iii) tertiary iv) quaternary

c) Vitamin E is considered a fat-soluble vitamin. Circle or name the part of vitamin E's structure that contributes to its hydrophobic nature. (2 pts.)

The long alkyl tail (part E) likely makes vitamin E hydrophobic and soluble in fat molecules.