Organic Naming Practice II

This includes the naming of all functional groups named in Chem 21—alkanes, alkenes, alkynes, ethers, and alcohols—including in combination with stereochemistry.

1. Provide names for structures

   a. \( \text{sec-butyl alcohol} \)
   b. \( \text{cyclopentyl isopentyl ether} \)
   c. \( \text{(Z)-6-methyl-5-octen-1-ol} \)
   d. \( \text{1-methylcycloheptene} \)
   e. \( \text{1-ethylcyclohexanol} \)
   f. \( \text{(R)-4,4,5-trimethyl-1-heptyne} \)

2. Provide structures for names.
   a. sec-butyl alcohol
   b. cyclopentyl isopentyl ether
   c. (Z)-6-methyl-5-octen-1-ol
   d. 1-methylcycloheptene
   e. 1-ethylcyclohexanol
   f. (R)-4,4,5-trimethyl-1-heptyne