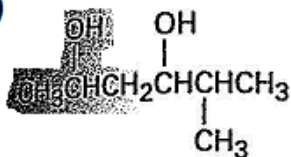


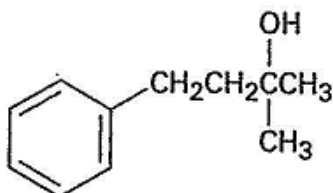
Problem 17.1

Give IUPAC names for the following compounds.

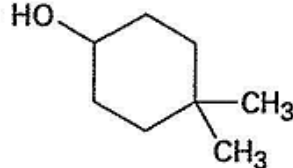
a)



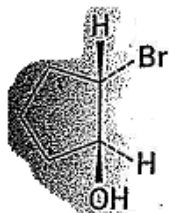
b)



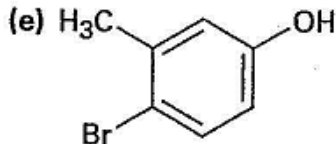
c)



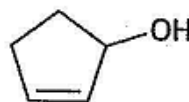
d)



e)



f)

**Problem 17.2**

Draw structures corresponding to the following IUPAC names:

(a) (Z)-2-Ethyl-2-buten-1-ol

(b) 3-Cyclohexen-1-ol

(c) trans-3-Chlorocycloheptanol

(d) 1,4-Pentanediol

(e) 2,6-Dimethylphenol

(f) o-(2-Hydroxyethyl)phenol

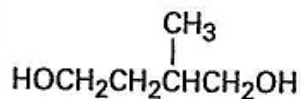
Problem 17.5

p-Nitrobenzyl alcohol is more acidic than benzyl alcohol, but *p*-methoxybenzyl alcohol is less acidic. Explain.

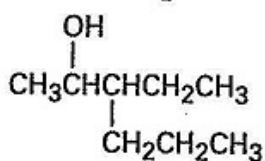
Problem 17.25

Give IUPAC names for the following compounds:

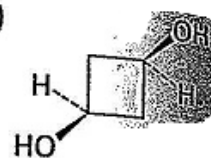
(a)



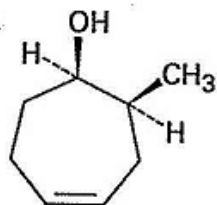
(b)



(c)



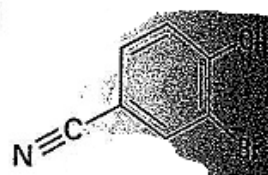
(d)



(e)



(f)

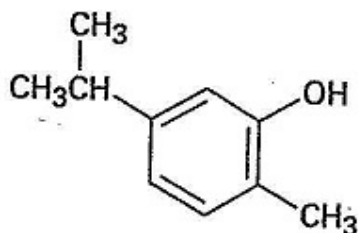


Problem 17.28

Named *bombykol*, the sex pheromone secreted by the female silkworm *Bombyx mori* has the formula $C_{16}H_{28}O$ and the systematic name (10*E*,12*Z*)-10,12-hexadecadien-1-ol. Draw bombykol showing correct geometry for the two double bonds.

Problem 17.29

Carvacrol is a naturally occurring substance isolated from oregano, thyme, and marjoram. What is its IUPAC name?

**Carvacrol**