

Section 1.4: Alcohols, Ethers, and Thiols

Tutorial 1 Practice, page 34

1. (a) **Step 1:** In this compound, the longest chain has 5 carbon atoms: pentane.

Step 2: There are two -OH groups, so the compound is a pentanediol.

Step 3: The -OH groups are attached to carbons 1 and 4.

Step 4: This compound is pentane-1,4-diol.

(b) **Step 1:** In this compound, the longest chain has 8 carbon atoms: octane.

Step 2: There is one -OH group, so the compound is an octanol.

Step 3: The -OH group is attached to carbon 4, using the lowest possible number, so the compound is an octan-4-ol.

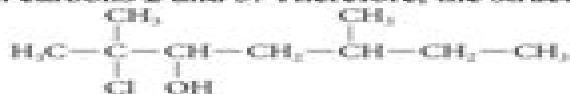
Step 4: There is a methyl group attached carbon 3 and an ethyl group attached to carbon 4. This compound is 4-ethyl-3-methyloctan-4-ol.

(c) **Step 1:** In this compound, the parent structure is benzene.

Step 2: There are two -OH groups, so the compound is a benzenediol.

Step 3: The -OH groups are attached to carbons 1 and 3, so the compound is benzene-1,3-diol.

2. (a) The name "heptanol" indicates that this alcohol consists of a 7-carbon chain with one hydroxyl group attached to it. The hydroxyl group is attached to carbon 3. Add the substituents as indicated in the name: a chlorine atom on carbon 2 and two methyl groups on carbons 2 and 5. Therefore, the structure of 2-chloro-2,5-dimethylheptan-3-ol is



(b) The name "propanediol" indicates that this alcohol consists of a 3-carbon chain with two hydroxyl groups attached to it. The hydroxyl groups are attached to carbons 1 and 3. Therefore, the structure of propane-1,3-diol is



(c) The simplest aromatic alcohol is a benzene ring with one hydroxyl group bonded to it. The IUPAC name of this compound is phenol. Therefore, the structure of phenol is



(d) The name "pentenediol" indicates that this alcohol consists of a 5-carbon chain with a double bond and two hydroxyl groups attached to it. The hydroxyl groups are attached to carbons 1 and 2, and the double bond is between carbons 2 and 3. Therefore, the structure of pent-2-ene-1,2-diol is:



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