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Medicine & Surgery

1) Alcohols can be classified into two based on the following
a) The number of hydrogen atoms attached to the carbon atom containing the hydroxyl group. If the number of hydrogen atoms attached to the carbon atom bearing the hydroxyl group are three or two it is a primary alcohol; if it's one it is secondary and if there's none then it is tertiary eg ethanol C_2H_5OH

b) This is based on the number of hydroxyl groups they possess. Monohydric alcohols have only one hydroxyl group, dihydric have two they are also known as glycols, trihydric alcohols or triols have three hydroxyl groups and polyhydric alcohols have more than three hydroxyl groups. eg HOC_2H_4OH ethan-1,2-diol

2) Alcohols with up to three carbon atoms in their molecules are soluble in water because these lower alcohols can form hydrogen bonds with water molecules.

In organic solvent, all monohydric alcohols are soluble in organic solvent. Generally the solubility is due to their ability to form hydrogen bonds with water molecules.

3) $2(C_6H_{10}O_5)_n$



