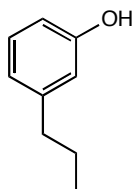
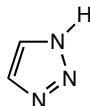


1. Give the complete name for the following molecule:



Name: _____

2. Plot the relative energies of the π -molecular orbitals for the following molecule, label each orbital as bonding, non-bonding, or anti-bonding, and fill the orbitals with the appropriate number of electrons. Finally, determine if the compound is aromatic or anti-aromatic (this molecule is completely planar).



3. Draw the mechanism for the following reaction. You do not need to show how the electrophile is formed, but you should include the active electrophile in the mechanism.

