

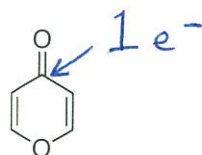
Organic Chemistry

Homework

Name: Key

Due Date: Nov 1, 2017

1. Fill in the blanks below:



pi electrons 7

p orbital on every

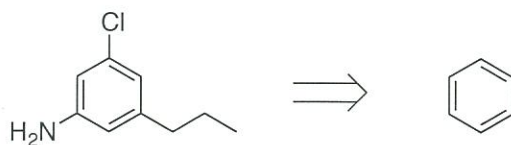
atom in ring (yes/no)

yes

aromatic (yes/no)

no

2. Show how the compound below can be synthesized from benzene and any needed reagents. If ortho and para isomers are formed in any step, assume you can separate them. You do not need to show mechanisms. There may be more than one correct answer.



1. $\text{HNO}_3, \text{H}_2\text{SO}_4$

2. $\text{CH}_3\text{COCl}, \text{AlCl}_3$

3. $\text{Cl}_2, \text{AlCl}_3$

4. H_2, Pd