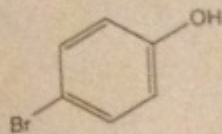
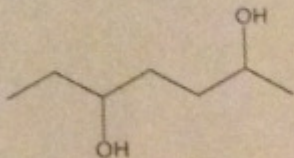
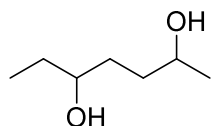


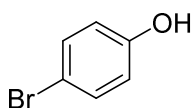
1. Determine the appropriate IUPAC name for the following compounds from its line-angle structures. (8 points)



Solution:

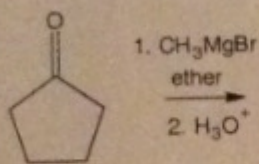


heptane-2,5-diol

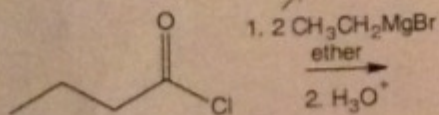
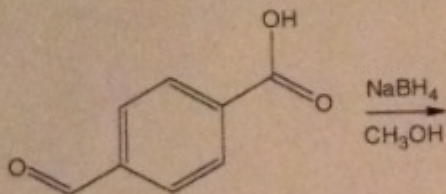


4-bromophenol

3. Predict the major product(s) with the correct stereochemistry for the following reactions. (9 points)

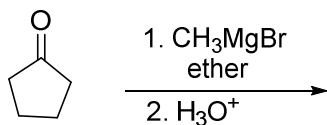


*no stereochem.*

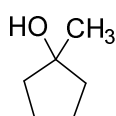


*→ 2 enantiomeric molecules*

Solution:



cyclopentanone



1-methylcyclopentan-1-ol

