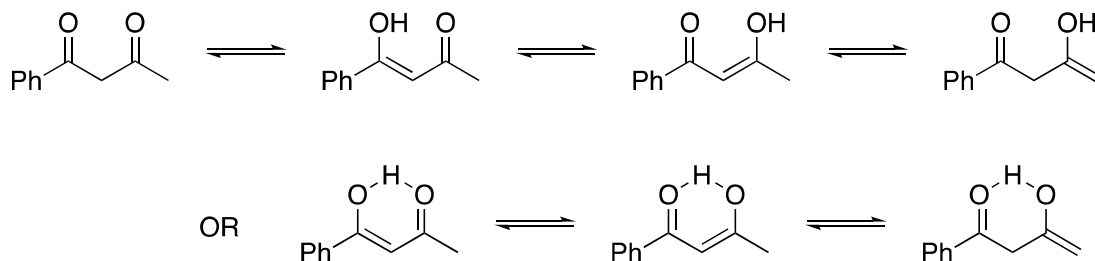


Name: _____

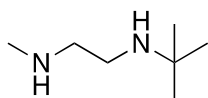
Section: _____

CHEM 3331 –Quiz 4 KEY

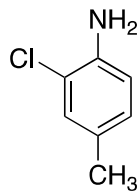
1) Provide all possible enol structures for the following compound. (6 pts)



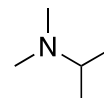
2) Give the IUPAC name for the following compounds and state whether each nitrogen is primary, secondary, or tertiary. (7 pts)



Secondary & Secondary
N-tert-butyl-N'-methyl-1,2-ethanediamine

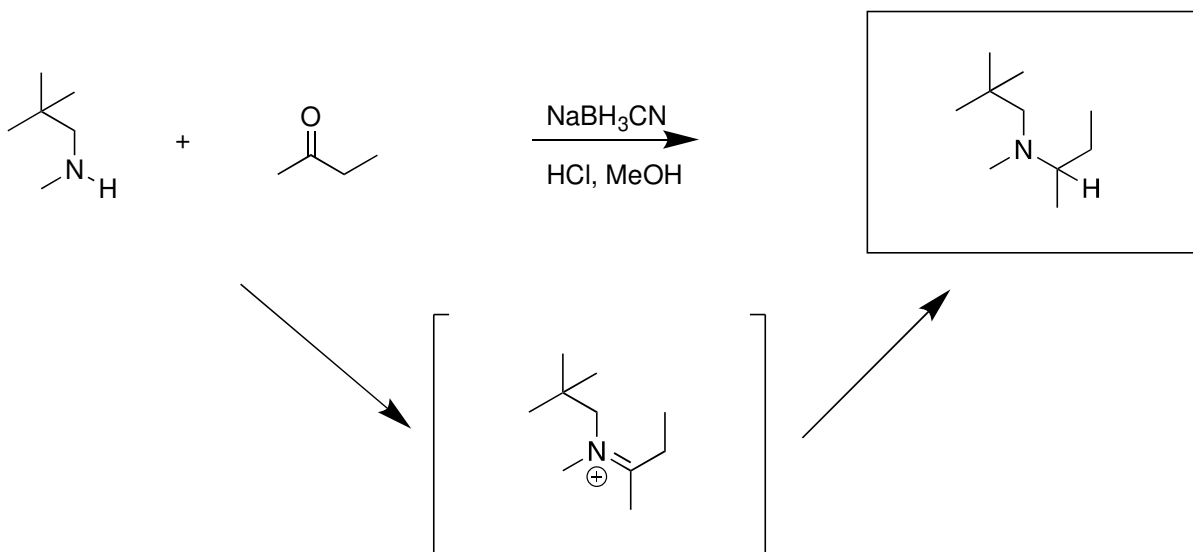


Primary
2-chloro-4-methyl-benzenamine
or
2-chloro-4-methylaniline



Tertiary
N,N-dimethyl-2-propanamine

3) Provide the structures for the intermediate and product of the Borch reduction. (6 pts)



4) Provide the structures for the products of the following reactions. (6 pts)

