

## Laboratory Report ( 109chem)

### Experiment 7: Aldehydes and Ketones


Student Names: ..... Section No: .....

#### Part (1): Aldehydes

Name		Structure formula
class		
Functional group		
Molecular formula		

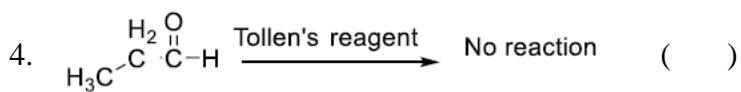
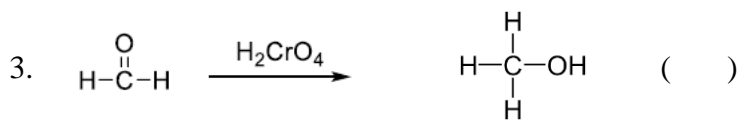
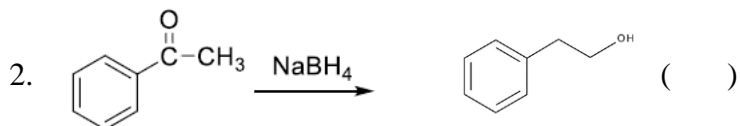
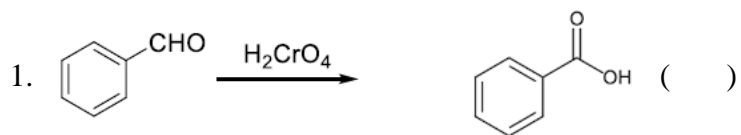
Tube no.	Test	Observation	Conclusion
1	<p><b><u>Distinguishing Test:</u></b></p> <p>Oxidation of Aldehyde by weak oxidizing agent (Tollen's reagent)</p> <p><b>0.5 mL of AgNO<sub>3</sub> + 2-3 drops of 5% NaOH + 4-5 drops of NH<sub>4</sub>OH + 0.5 mL of Aldehyde + heating for a few seconds</b></p>		
2	<p><b><u>Oxidation of Aldehyde:</u></b></p> <p>(Formaldehyde or Acetaldehyde) by Potassium permanganate.</p> <p><b>1 mL of Aldehyde + 1 drop of KMnO<sub>4</sub></b></p>		

#### Part (2): Ketones

Name		Structure formula
class		
Functional group		
Molecular formula		

Tube no.	Test	Observation	Conclusion
1	<p><b><u>Oxidation of Ketones:</u></b></p> <p>1 mL of Acetone + 1 drop of KMnO<sub>4</sub></p>		

Are the products of the following reactions true or false? And correct the wrong answer



---

• How can we identify aldehydes and ketones?