

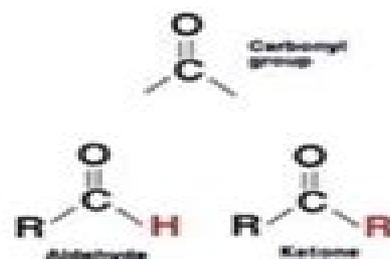
# Identification of Unknown Organic Compound

## IN THIS EXPERIMENT, YOU WILL

- Determine the classes of alcohol by using the Lucas Test
- Identify the carbonyl compound by using Brady's, Tollen's and Fehling's Test.
- Identify the methyl carbonyl and methyl carbinol compounds by using the Iodoform Test

## INTRODUCTION

Alcohols are organic compounds in which, as their functional group, one or more hydrogen atoms in an alkane have been replaced by a group of  $-OH$  (hydroxyl). Alcohols fall into various classes depending on how the  $-OH$  group is positioned on the carbon atom chain. Alcohol can be oxidized to aldehyde, ketone, and carboxylic acid. The product formed from the oxidation depends on the classes of alcohol used as reactant.



Aldehydes and ketones are carbonyl compounds. They contained a carbonyl group; a double bond of carbon-oxygen, (C=O). Oxygen is far more electronegative than carbon, and thus has a strong tendency to pull electrons towards itself in a carbon - oxygen bond. That makes the bond between carbon and oxygen extremely polar. Nucleophiles can attack the partially positive carbon-atom in the carbonyl group. Aldehydes have the  $RCHO$  structure, in which R is an alkyl or aryl group. The hydrogen atom attached to the carbonyl group leads to different oxidation behavior in aldehydes compared to that seen with ketones. Ketones meanwhile have the  $RR'CO$  structure where R and R' are an alkyl group attached to both ends of carbon in a carbonyl group.

# Identification Of Unknown Organic Compounds

**Clifford Lane**



## **Identification Of Unknown Organic Compounds:**

## Reviewing **Identification Of Unknown Organic Compounds**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Identification Of Unknown Organic Compounds**," an enthralling opus penned by a highly acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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