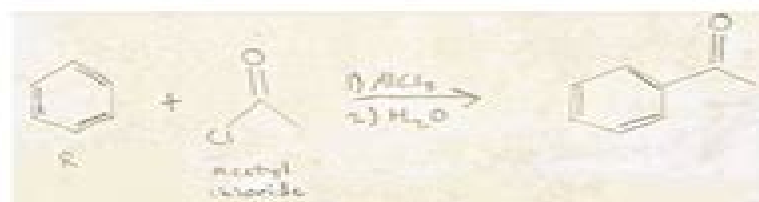


The Identification of an Unknown Substituted Benzene Using Friedel-Crafts Acylation and its Analysis by IR and H-NMR Spectroscopies

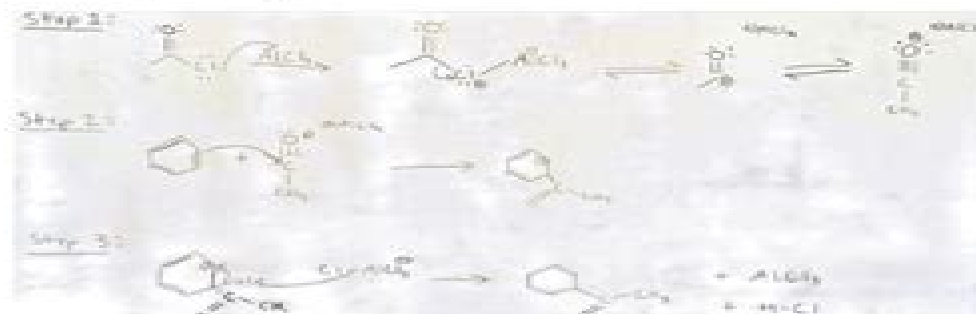
Introduction

The Friedel-Crafts acylation is a reaction between an aromatic ring and a carbonyl, or acyl, group with the required addition of a catalyst, AlCl_3 in this case, as shown in Scheme 1. This reaction is known as an electrophilic aromatic substitution (EAS). In this experiment, a Friedel-Crafts acylation will be performed using acetyl chloride on an unknown substituted benzene ($\text{C}_6\text{H}_{10}\text{O}$). The product, or unknown, will be analyzed and identified using its IR and H-NMR spectra. The overall reaction is shown in Scheme 1 below:



Scheme 1

Friedel-Crafts acylation involves the reaction of an acyl chloride, like acetyl chloride, with an aromatic compound in the presence of a Lewis acid catalyst, typically aluminum chloride (AlCl_3). This forms an acylium ion, which reacts with the aromatic compound through nucleophilic substitution, resulting in the formation of an aromatic ketone. The mechanism



Scheme 2

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