

Subject: Inquiry About Wurtz Reaction Outcomes

Dear [Recipient's Name],

I hope this message finds you well.

I am writing to discuss the outcomes of the Wurtz reaction that we conducted in our last laboratory session. As you know, we aimed to synthesize larger alkanes from the corresponding alkyl halides using sodium metal in dry ether.

Results:

1. **Starting Materials:** [Specify the alkyl halides used, e.g., bromoethane and iodoethane]
2. **Reaction Conditions:** [Detail the conditions, e.g., concentration, temperature, and time]
3. **Products:** We successfully isolated [list the products formed, e.g., butane and hexane].
4. **Yield:** The theoretical yield was [insert theoretical yield] grams, and we obtained [insert actual yield] grams, resulting in a percent yield of [calculate percent yield].

Discussion:

- We observed that [mention any observations, e.g., color change, gas evolution].
- One notable challenge we faced was [describe any difficulties encountered, e.g., side reactions or purification issues].

Questions:

- Do you have any insights on optimizing yield for future experiments?
- Would you recommend alternative methods for synthesizing larger alkanes?

Looking forward to your valuable feedback.

Best regards,

[Your Name]

[Your Position/Title]

[Your Institution]

[Your Contact Information]