

Name: \_\_\_\_\_

SB#: \_\_\_\_\_

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**Dehydration of cyclohexanol. Questions:**

1. Please write a complete mechanism for the reaction.
  2. What was your percent yield for this reaction? Show calculations.
  3. What is the purpose of the wash with sodium bicarbonate?
  4. What is the purpose of the wash with brine (saturated sodium chloride)?
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5. What is the purpose of the solid sodium sulfate?
  
  
  
  
  
  
  
  
  
  
  6. Explain why we don't have to worry about the  $S_N1$  product in this reaction.
  
  
  
  
  
  
  
  
  
  
  7. Describe the bromine unsaturation test, and how it works, including the mechanism.
  
  
  
  
  
  
  
  
  
  
  8. Explain the significance of the peaks in your gas chromatogram, and estimate the purity of the cyclohexene sample. **Attach the chromatogram or a copy of it.**
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