

At the conclusion of your Fischer esterification experiment, you obtained an IR spectrum of a carboxylic acid, an alcohol, and an ester.

- a. The carbonyl stretch of carboxylic acids and esters is located between  $1750\text{--}1700\text{ cm}^{-1}$ . Consider this statement taken from your lab manual: 'The force required to stretch or bend a bond is the function of the strength of the bond and the masses of the bonded atoms.' Explain the difference in wavenumbers between carbonyl and hydroxyl functional groups.
- b. Carboxylic acid functional groups have an O–H stretch located between  $3500\text{--}2500\text{ cm}^{-1}$ . Alcohols have an OH stretch located between  $3650\text{--}3200\text{ cm}^{-1}$ .
  - i. Draw hydrogen bonding interactions between two carboxylic acid molecules.
  - ii. Draw hydrogen bonding interactions between two alcohols.
  - iii. Consider the effects of hydrogen bonding on bond strength and use your illustrations to explain the difference in wavenumbers between the hydroxyl groups of a carboxylic acid and the hydroxyl group of an alcohol.
- c. Carboxylic acids have a carbonyl stretch located between  $1725\text{--}1700\text{ cm}^{-1}$ . Esters have a carbonyl stretch located between  $1750\text{--}1730\text{ cm}^{-1}$ . Consider the effects of hydrogen bonding, resonance, and inductive electron withdrawal on the bond strength of the carbonyl group of carboxylic acids and esters. Explain the difference in wavenumbers between the carbonyl stretch of a carboxylic acid and that of an ester.

# Conclusion For Esterification Experiment

**Chemical Society (Great Britain)**



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Next Generation Renewable Thermal Energy Harvesting Conversion and Storage Technologies is an essential guide for those interested in the field of renewable thermal energy The book covers a wide range of topics focusing on solar thermal geothermal and biomass energy By presenting the fundamentals advancements and practical applications the book bridges the gap in interdisciplinary knowledge Readers will find valuable insights into the latest technological advancements and real world case studies making it a comprehensive resource for researchers engineers students and policymakers The book aims to inspire collaboration and innovation contributing to a cleaner and more sustainable future The book is divided into three sections each dedicated to a specific renewable energy source The first section covers solar thermal energy including solar collectors concentrating solar power systems and thermal energy storage The second section focuses on geothermal energy discussing exploration techniques drilling technologies and optimizing power generation The last section explores biomass energy emphasizing sustainability and the integration of biomass with other energy sources Delivers a consolidated resource that covers both theoretical foundations and real world applications Unveils the latest innovations in solar thermal energy harvesting including Photothermal Conversion Technologies and Materials Innovations in Collector Technologies Reveals the power of Nanomaterials and Coatings for Enhanced Solar Thermal Absorption as well as the use of Phase Change Materials for Energy Storage and Retrieval Dives into Geothermal Energy Harvesting Enhanced Geothermal Systems EGS and their applications in agriculture aquaculture communities buildings and more      *Annual Report of the Pennsylvania Agricultural Experiment Station* Pennsylvania State College. Agricultural Experiment Station, 1910      *Journal of the Society of Chemical Industry* Society of Chemical Industry (Great Britain), 1900 Includes list of members 1882 1902 and proceedings of the annual meetings and various supplements      **Annual Review of Nuclear**

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web the real power absorbed by the load is given by  $p = 120 \times 6.63 \cos 56.4^\circ = 440 \text{ W}$  which can be checked by  $i_r^2 \times 6.63 \times 10 = 440 \text{ W}$   
the reactive power absorbed by the load is  $q = 120 \times 6.63 \sin 36.4^\circ = 663 \text{ var}$  c peak magnetic energy  $w_{li} = \frac{1}{2} \times 0.04 \times 6.63^2 \times 10^{-3} = 8.76 \times 10^{-4} \text{ J}$   
 $377 \times 1.76 \times 663 \text{ var}$  is satisfied  $2.17 \text{ A}$  svi zii zi jli  $2.2 \times \omega$

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