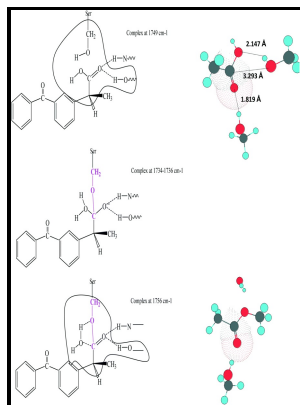


# Hydrogen bonding and catalysis in acyl-chymotrypsins - a study by infrared spectroscopy

University of Birmingham - Understanding photosynthesis: How plants use catalytic reactions to split oxygen from water



Description: -

-Hydrogen bonding and catalysis in acyl-chymotrypsins - a study by infrared spectroscopy

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Notes: Thesis (Ph.D) - University of Birmingham, School of Biochemistry.

This edition was published in 1992



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Tags: #Infrared #Spectroscopy #of #Intramolecular #Hydrogen

## Infrared spectroscopic study of hydrogen bonding topologies in the smallest ice cube

ACS Applied Polymer Materials 2020, 2 11 , 4762-4769.

## Comparative study of the hydrogen bonding properties between bis(fluorosulfonyl)imide/bis(trifluoromethyl)sulfonylimide

Relaxation and anharmonic couplings of the O—H stretching vibration of asymmetric strongly hydrogen-bonded complexes. Protic ionic liquids: Properties and applications.

## Hydrogen Bonding in Alcohol Clusters: A Comparative Study by Infrared Cavity Ringdown Laser Absorption Spectroscopy

The Journal of Chemical Physics 2007, 126 19 , 194307.

## Hydrogen Bonding

Figure shows the comparison of experimental spectrum of the water octamer and calculated spectra of isomers I—V. Experimental characterization of the water octamer has been awkward due to the difficulty in size-selection and detection of neutral water clusters in general.

## Intramolecular Hydrogen Bonding and Conformation of Small Peptides: Variable

Chemical Science 2017, 8 7 , 5057-5066. Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy 2002, 58 12 , 2795-2802.

## Hydrogen

Linear infrared spectroscopy All linear absorption measurements were performed using a Bruker Vertex 80v FTIR spectrometer, equipped with a

liquid-nitrogen-cooled mercury-cadmium telluride MCT detector. Characterizing the structural properties of N,N-dimethylformamide-based ionic liquid: Density-functional study.

### **Infrared spectroscopic study on chemical and phase equilibrium in triethylammonium acetate**

The model also predicts incomplete storage phase utilization both at the crystallite and reactor scales.

### **Comparative study of the hydrogen bonding properties between bis(fluorosulfonyl)imide/bis(trifluoromethyl)sulfonylimide**

Laser Spectroscopic Investigation of Salicylic Acids Hydrogen Bonded with Water in Supersonic Jets: Microsolvation Effects for Excited State Proton Dislocation.

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