

# FTIR SPECTROSCOPY REFERENCE GUIDE

The Molecular Laboratory

## INTRODUCTION

FTIR spectroscopy is a powerful analytical tool for identifying and quantifying organic and inorganic compounds. It is based on the interaction of infrared light with matter. The resulting spectrum is a plot of transmittance versus wavenumber, which can be used to identify the functional groups and molecular structure of a sample.

## FTIR SPECTROSCOPY PRINCIPLES

FTIR spectroscopy is based on the principle of interference. A beam of infrared light is split into two paths by a beam splitter. One path is reflected by a mirror, and the other path passes through a sample. The two beams recombine, and the resulting interference pattern is measured by a detector.

The resulting spectrum is a plot of transmittance versus wavenumber.

### Wavenumber

Wavenumber is the reciprocal of the wavelength of the light. It is measured in cm<sup>-1</sup>.

### Transmittance

Transmittance is the ratio of the intensity of the light that passes through a sample to the intensity of the light that enters the sample. It is measured as a percentage.



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## FTIR SPECTROSCOPY APPLICATIONS

FTIR spectroscopy is used in a wide range of applications, including:

- Identifying unknown compounds
- Quantifying the concentration of a compound in a mixture
- Studying the structure of polymers
- Monitoring the progress of a chemical reaction

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## FTIR SPECTROSCOPY INSTRUMENTATION



## FTIR SPECTROSCOPY DATA

Wavenumber (cm <sup>-1</sup> )	Assignment
3000-2800	C-H stretching
1600-1500	C=O stretching
1500-1300	C-O stretching
1300-1000	C-H bending
1000-600	Fingerprint region

Wavenumber (cm <sup>-1</sup> )	Assignment
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**S Marginson**



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