

IR Presentation

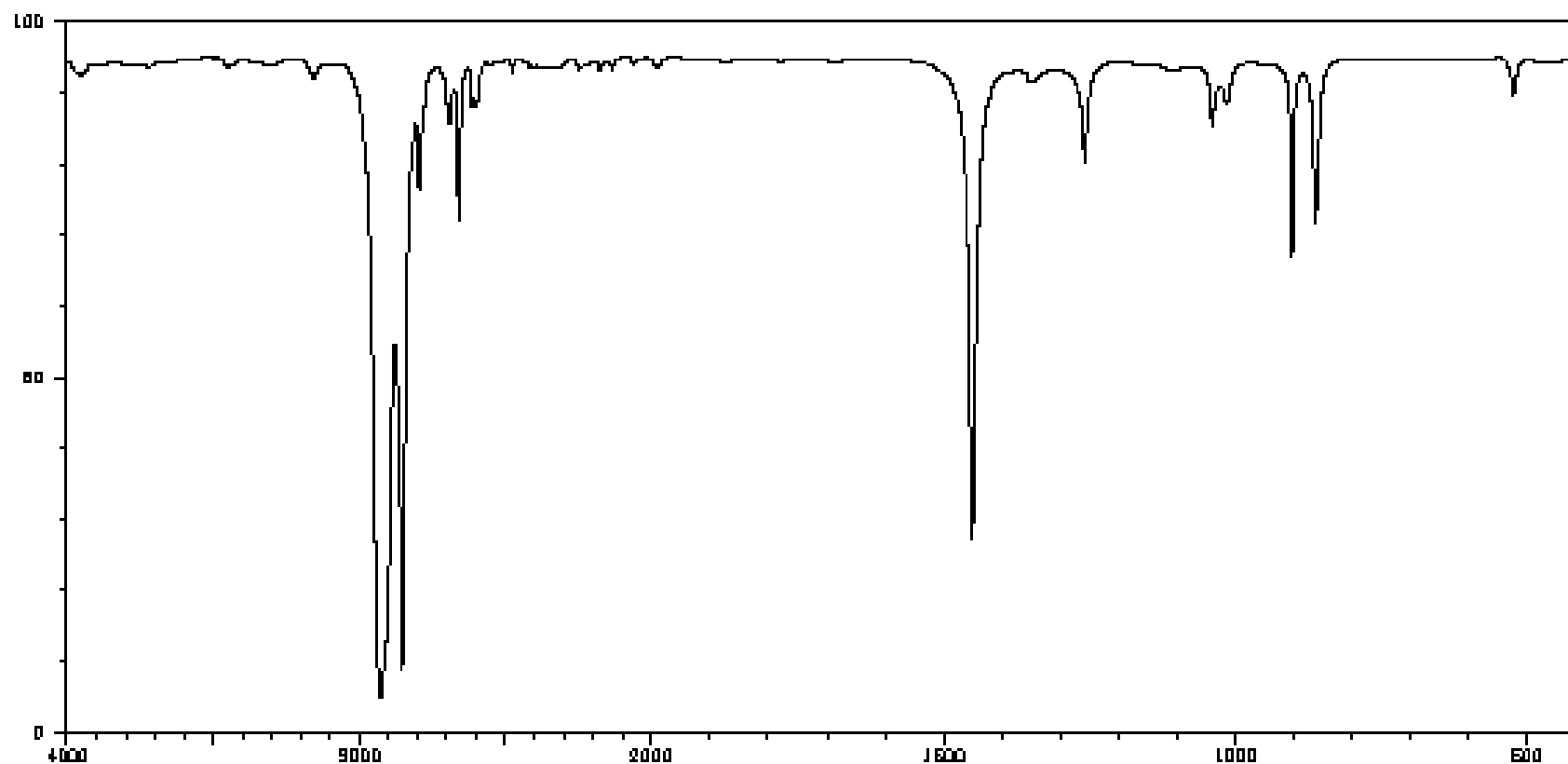
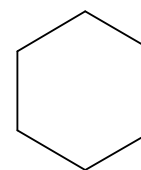
By

John H. Penn

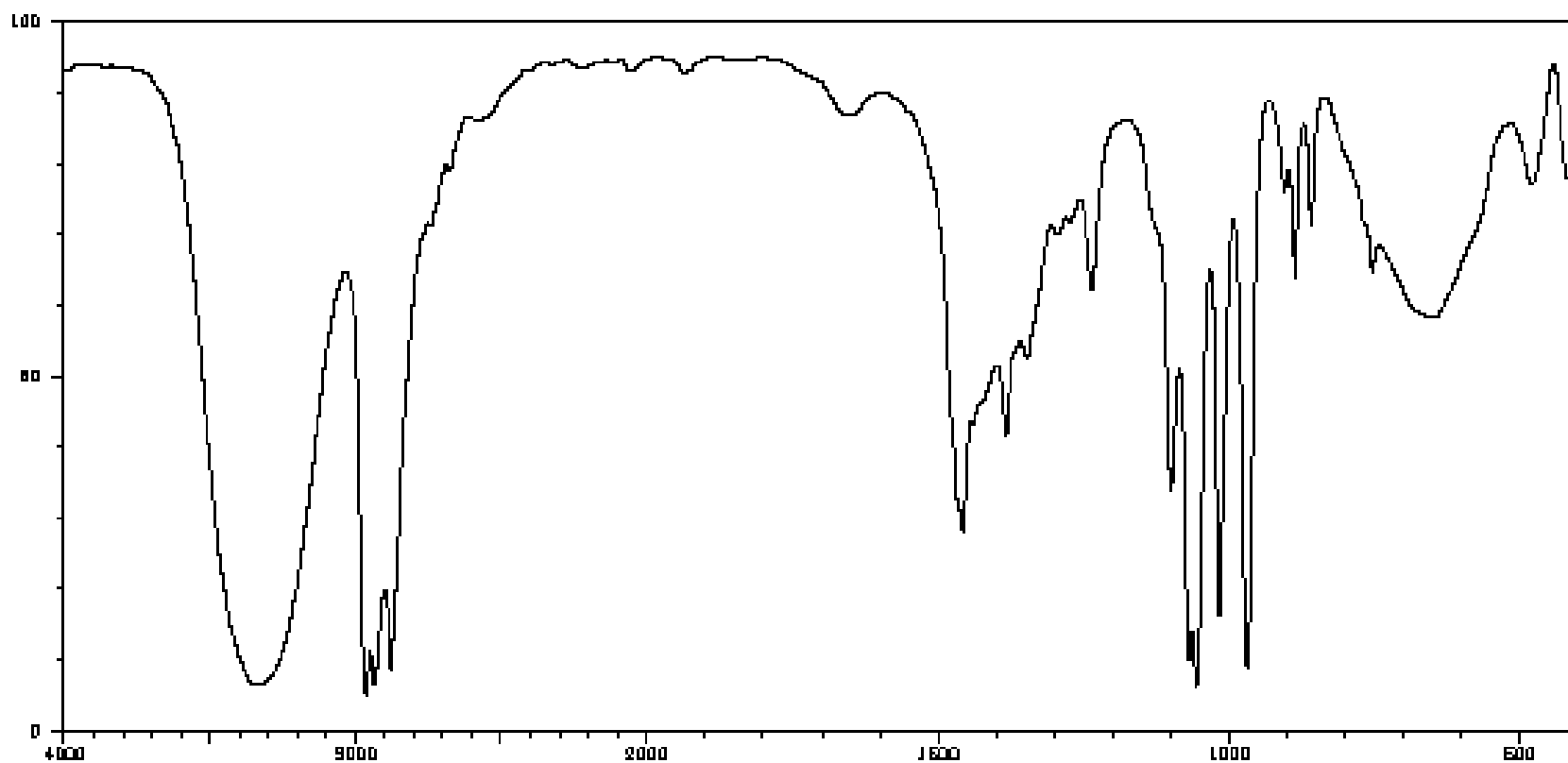
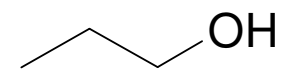
Visualization of Vibrations

- Methyl amine (all 15 vibrations)
 - <http://cheminf.cmbi.ru.nl/wetche/organic/vibr/>
- H₂O, CO₂, and Adamantane
 - <http://www.chm.bris.ac.uk/jmol/jmolv/vibratingmols/vibmenu.htm>
- Quite a few molecules
 - <http://www.molwave.com/software/3dnormalmodes/3dnormalmodes.htm>

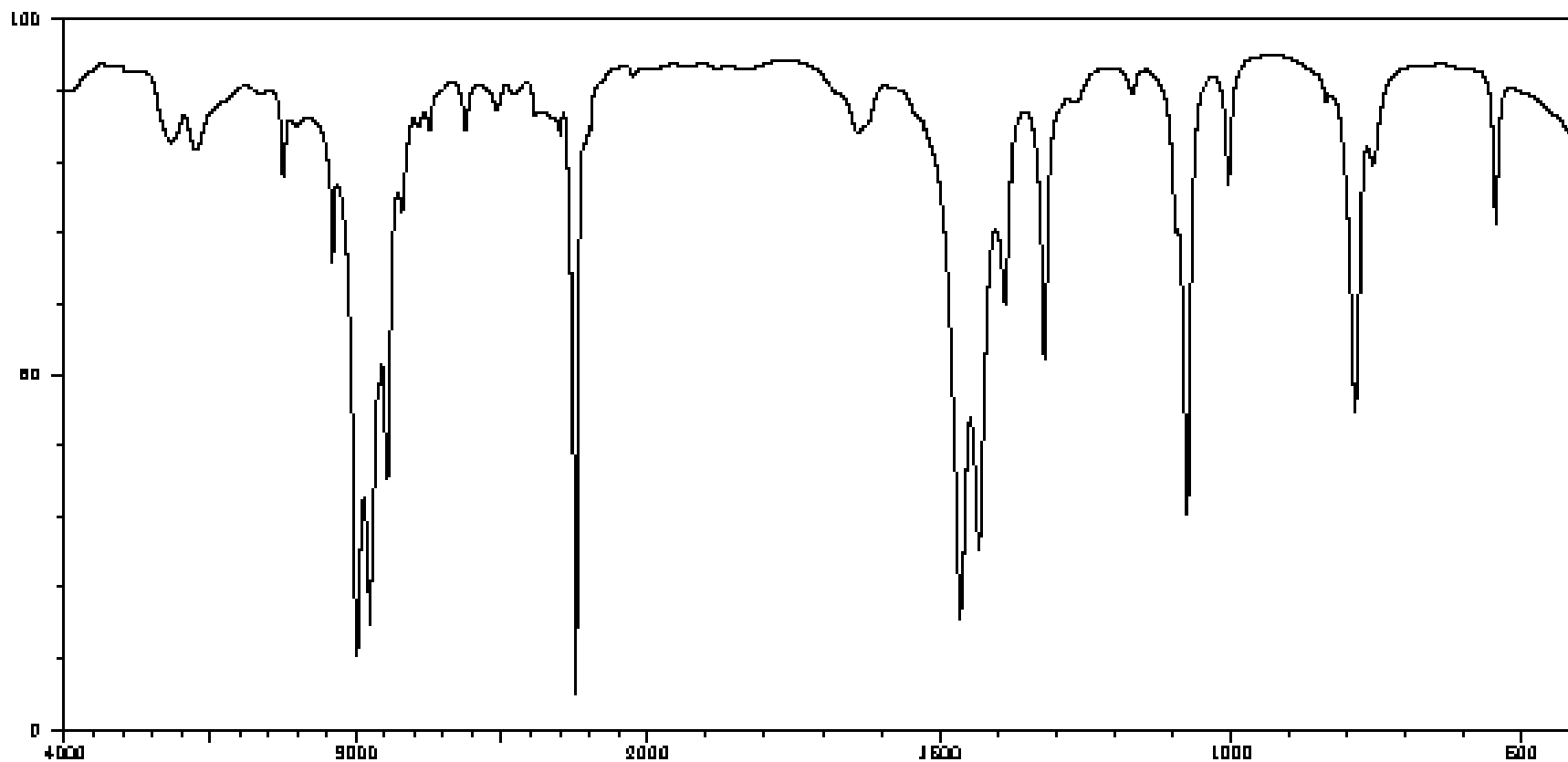
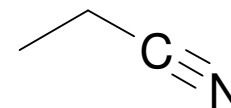
Cyclohexane



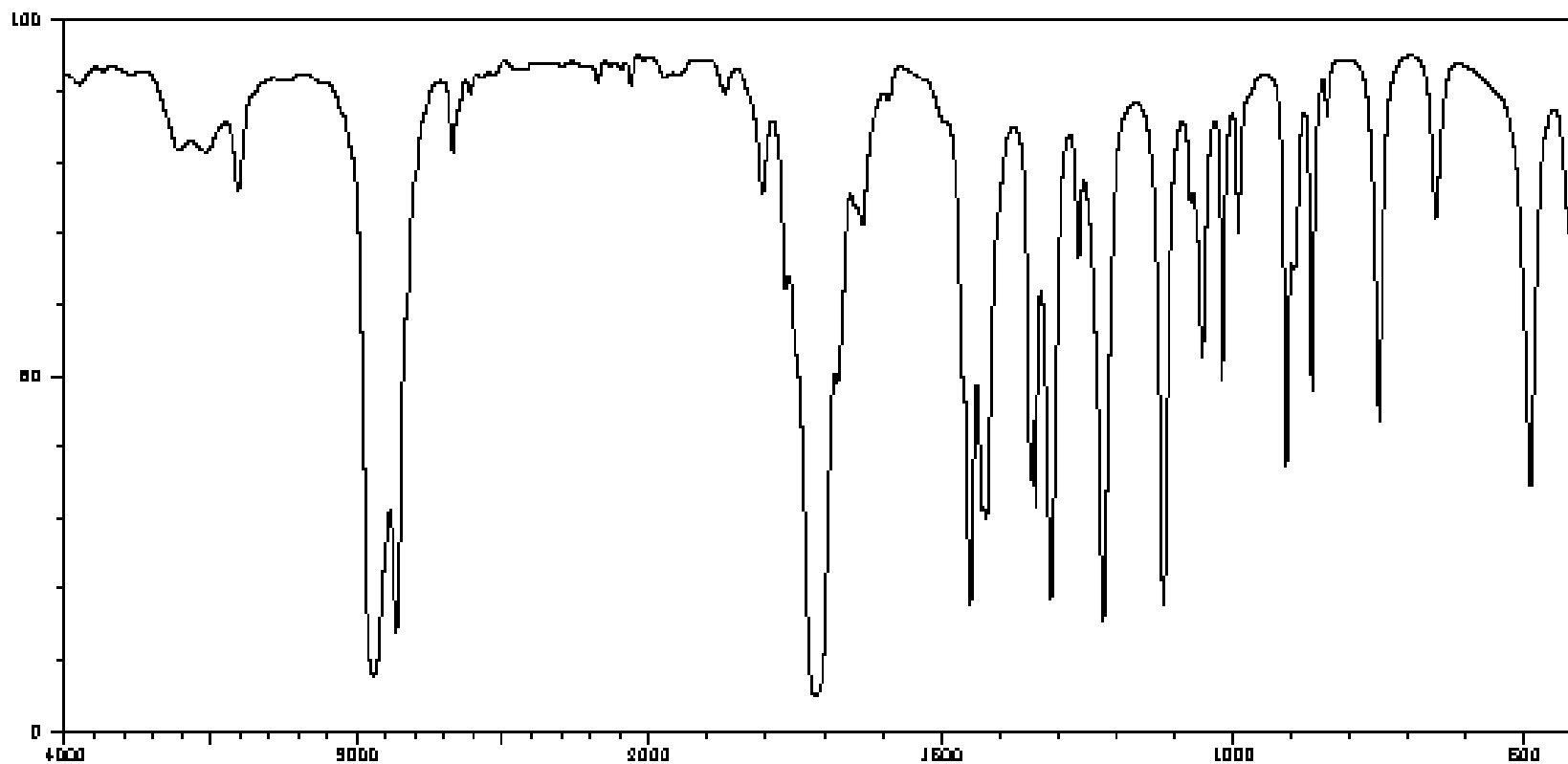
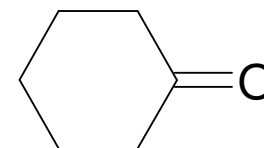
1-Propanol



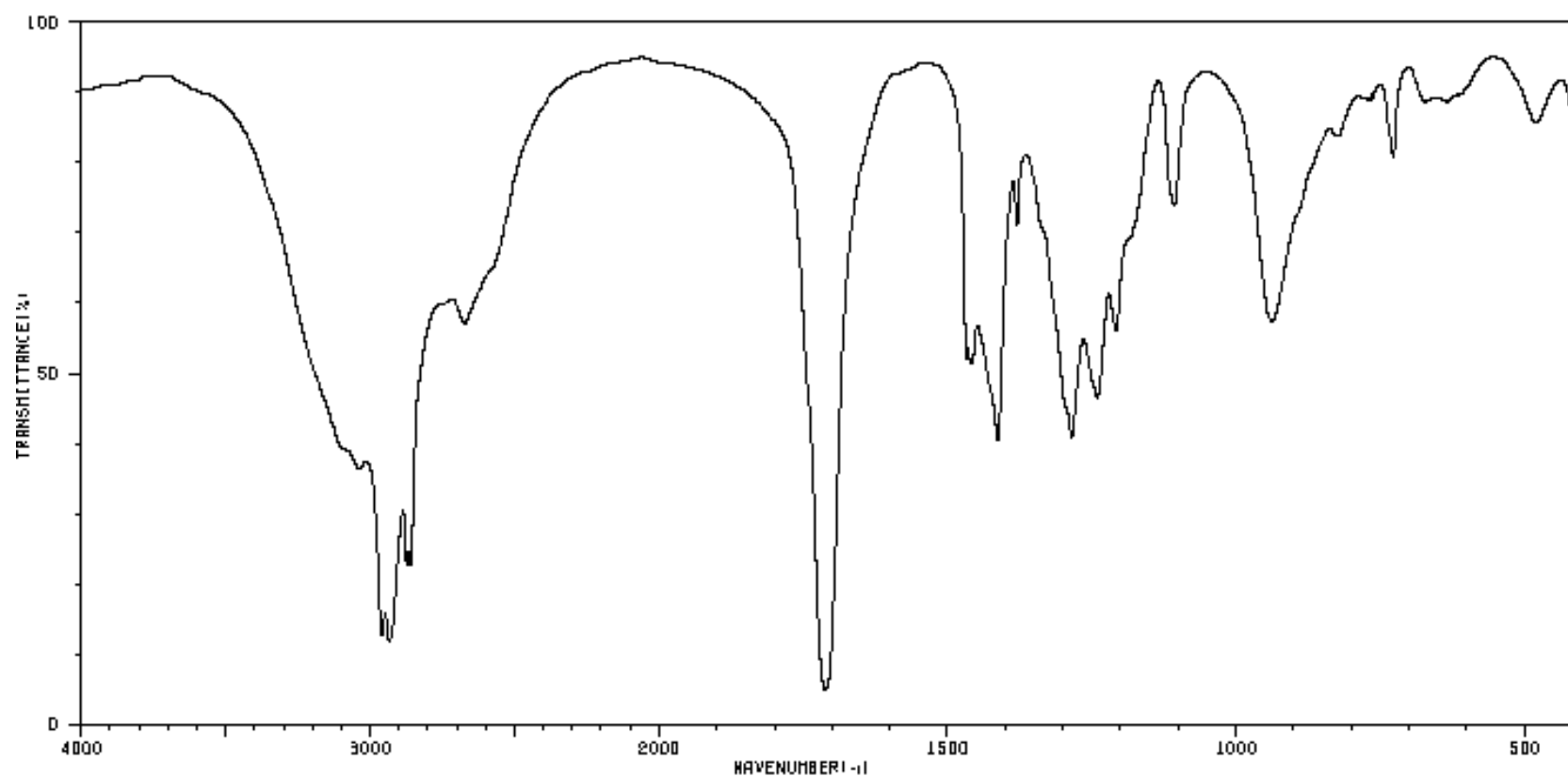
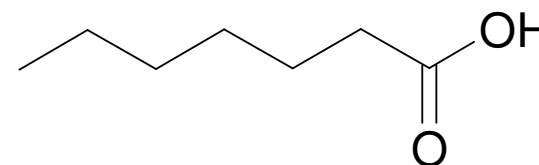
Propanenitrile



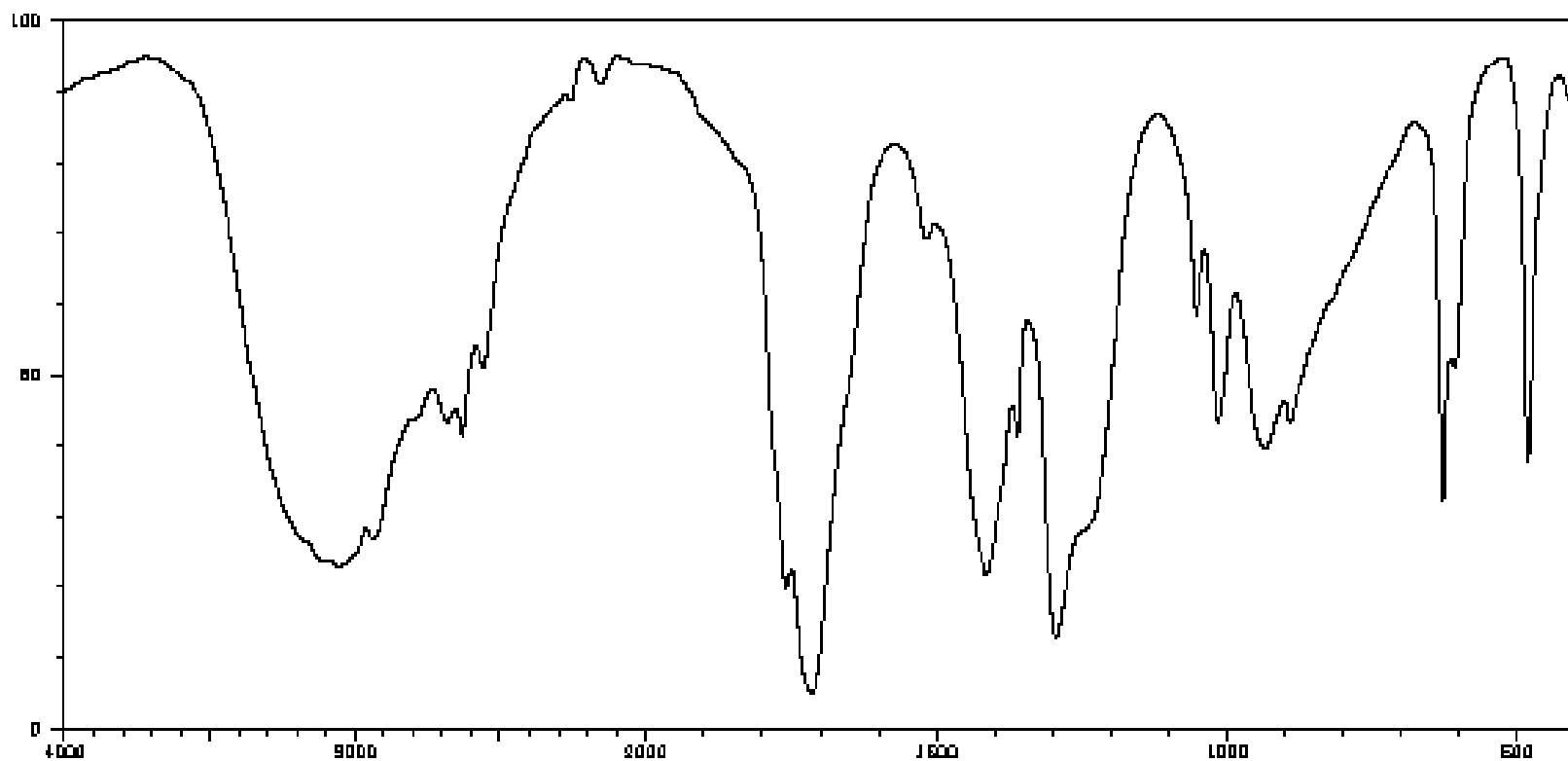
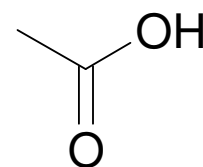
Cyclohexanone



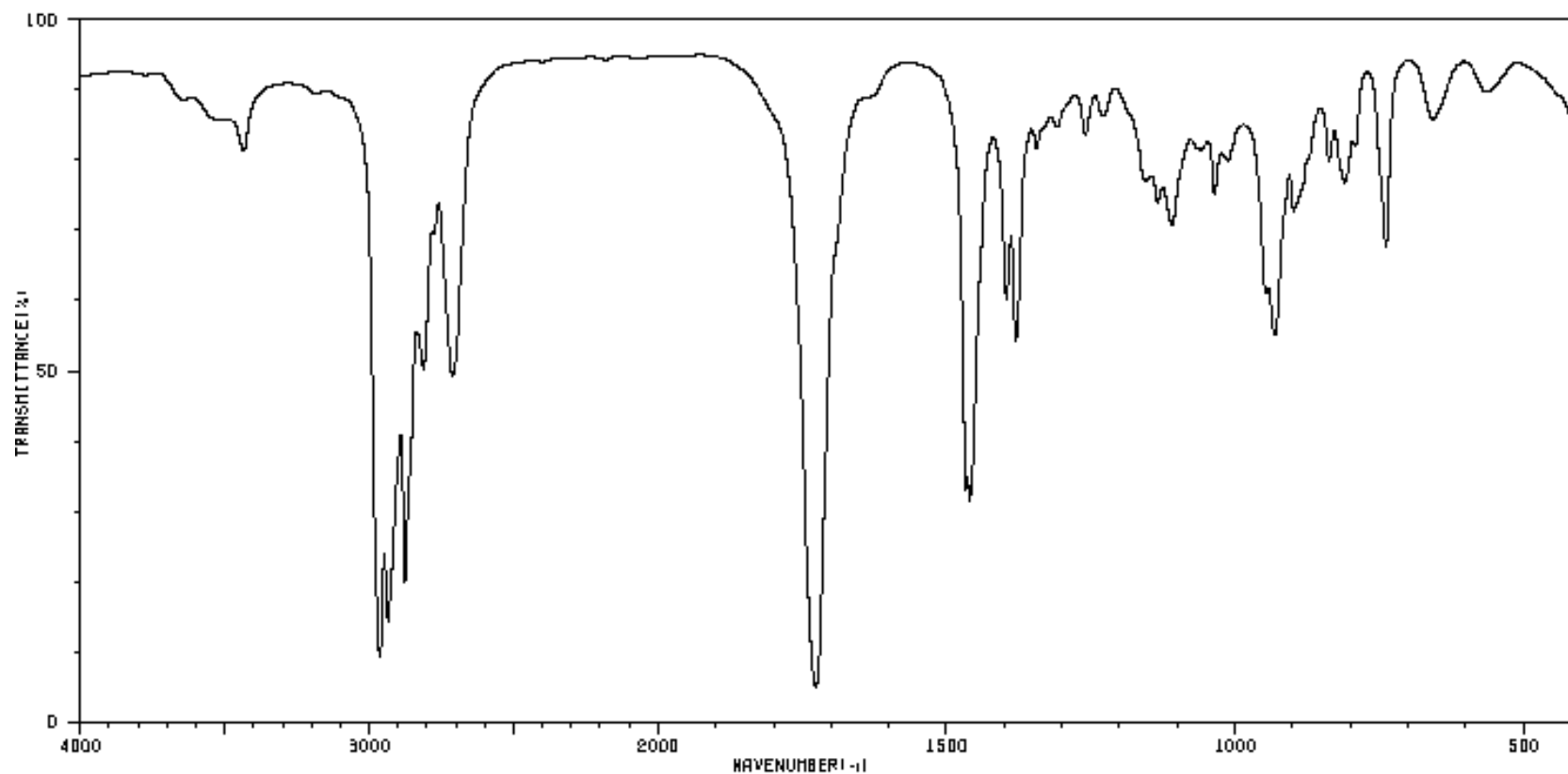
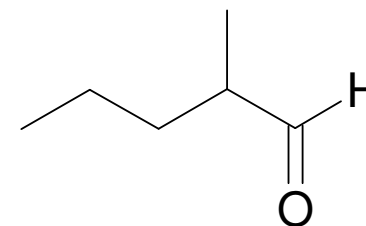
Heptanoic acid



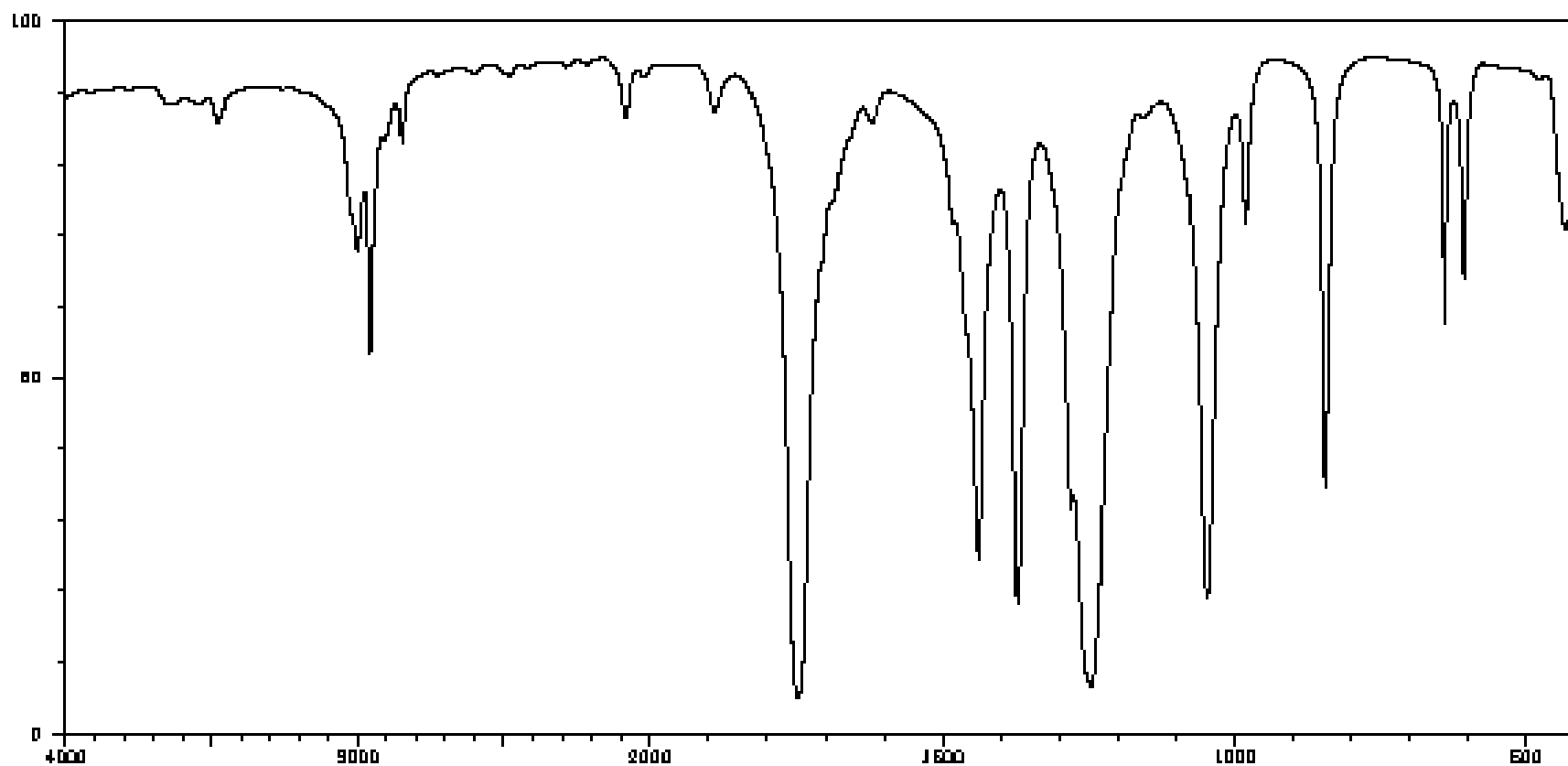
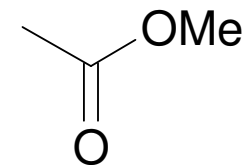
Ethanoic acid



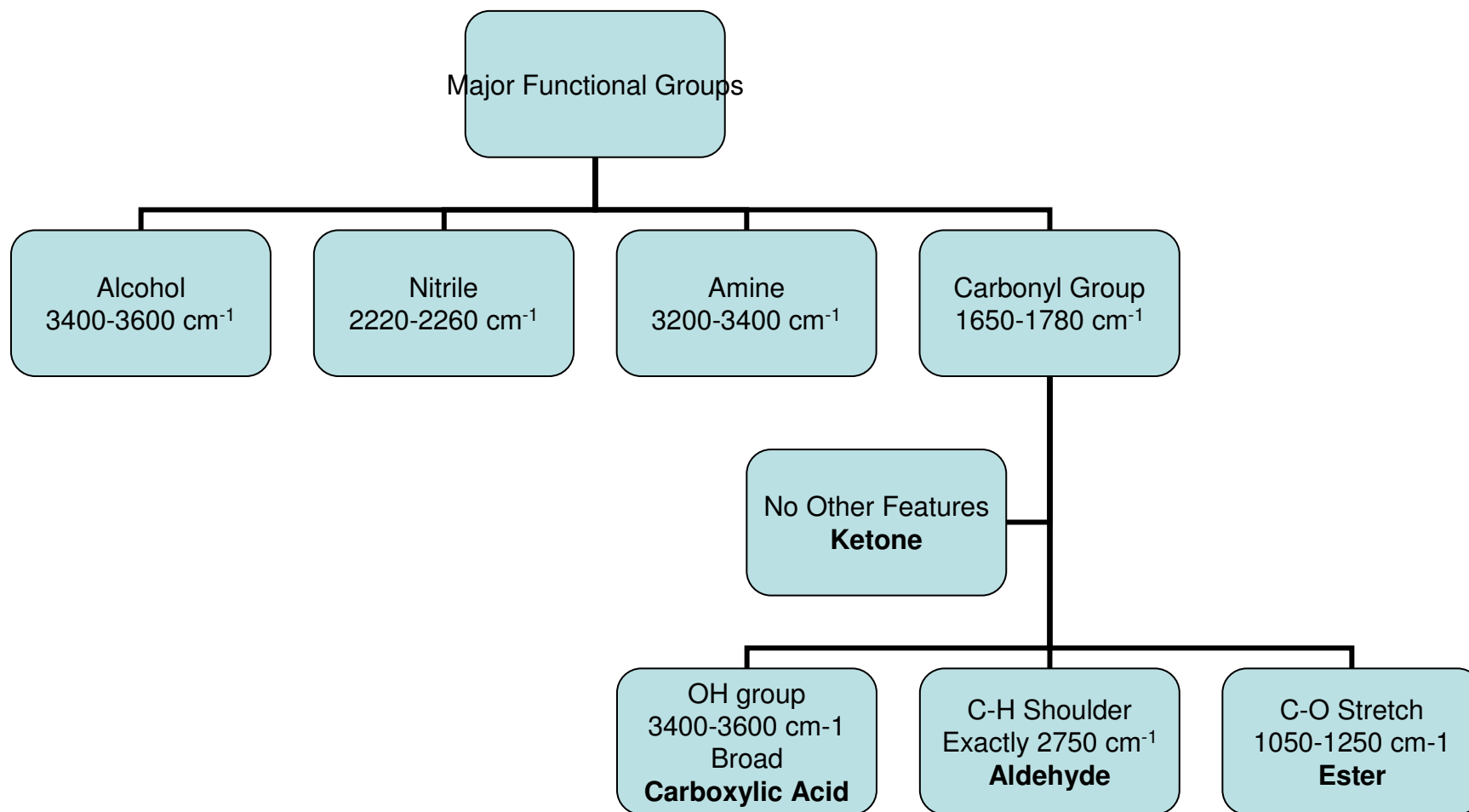
2-Methylpentanal



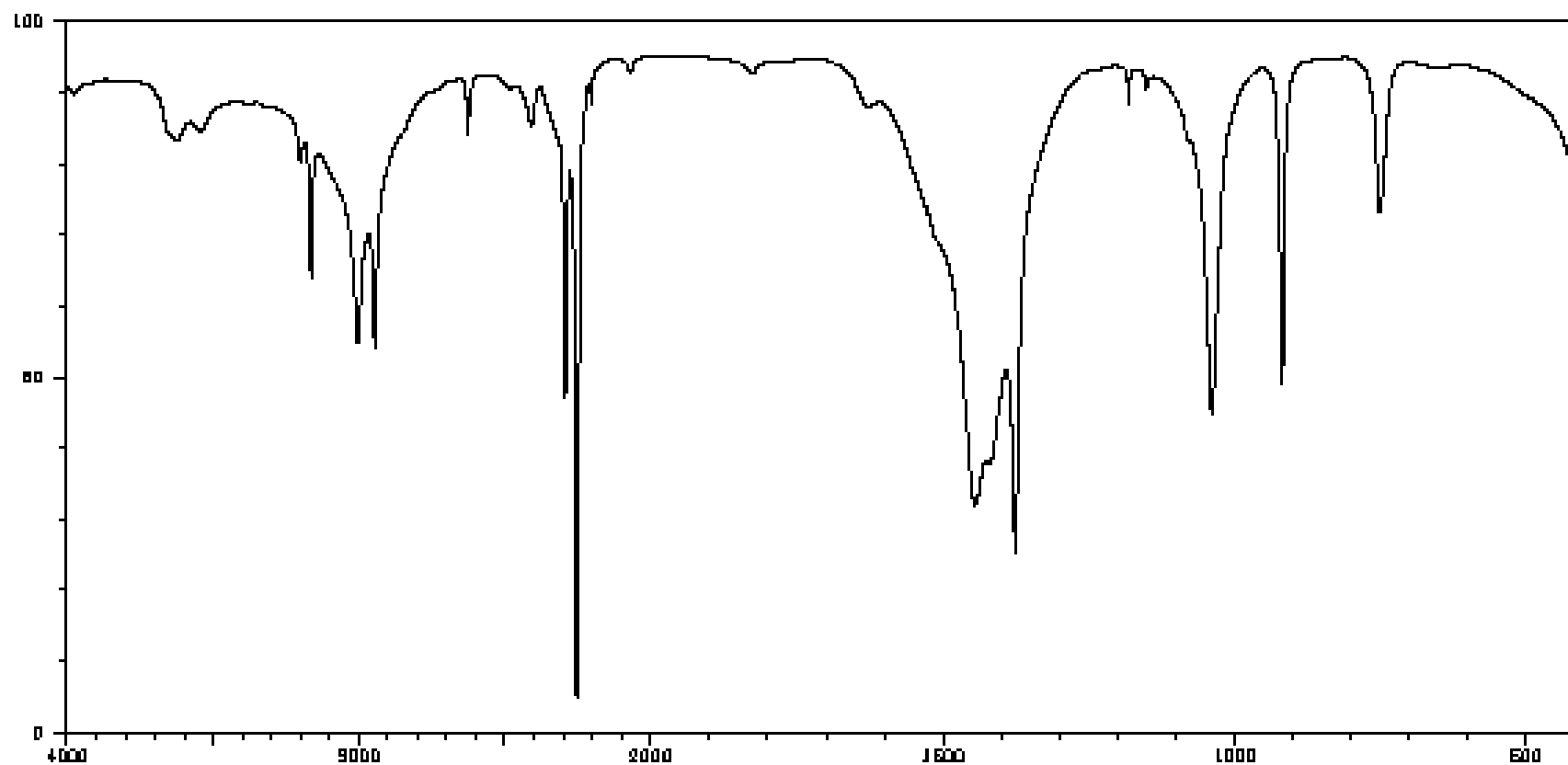
Methyl Ethanoate



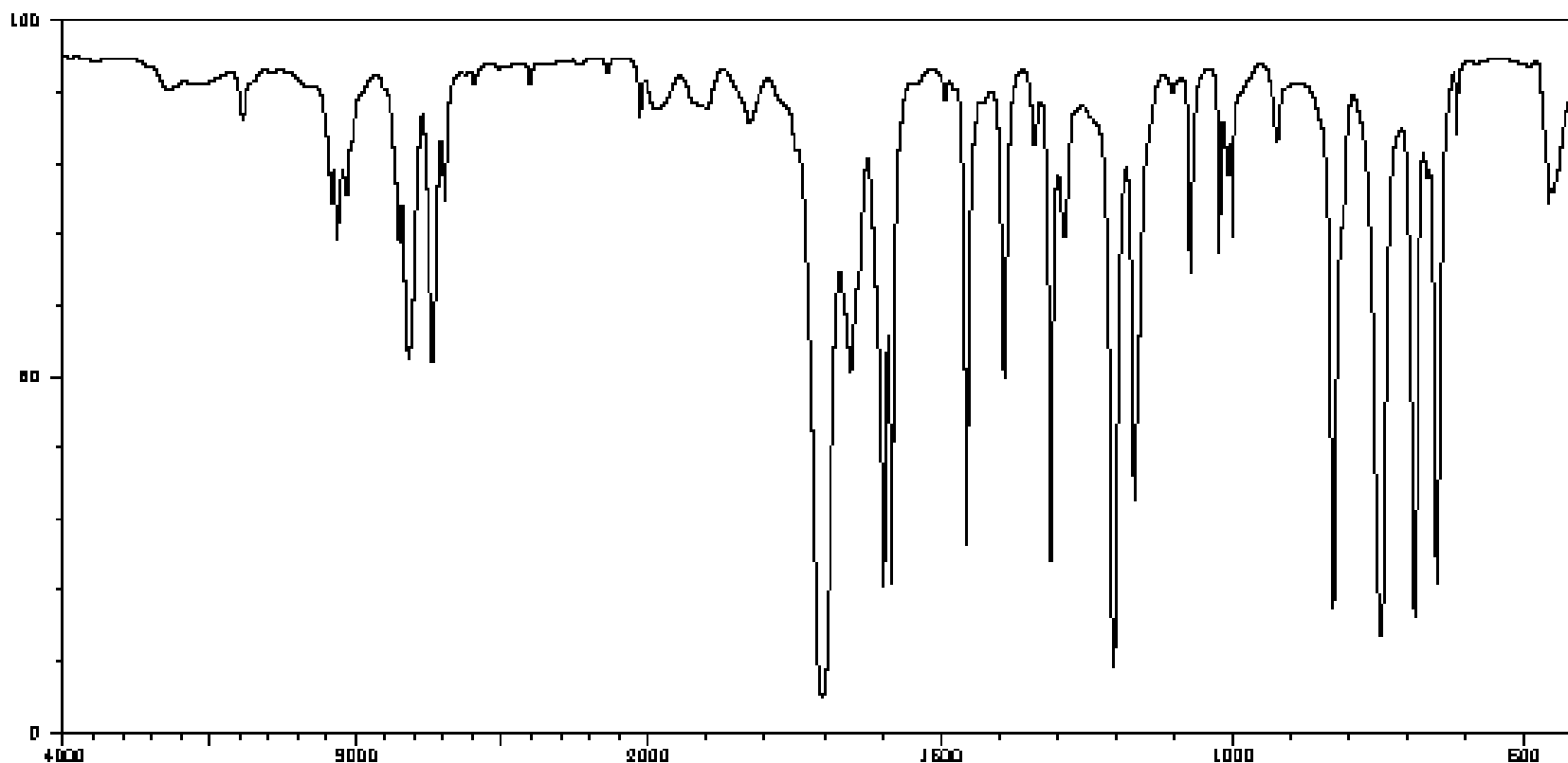
Interpreting IR Spectra



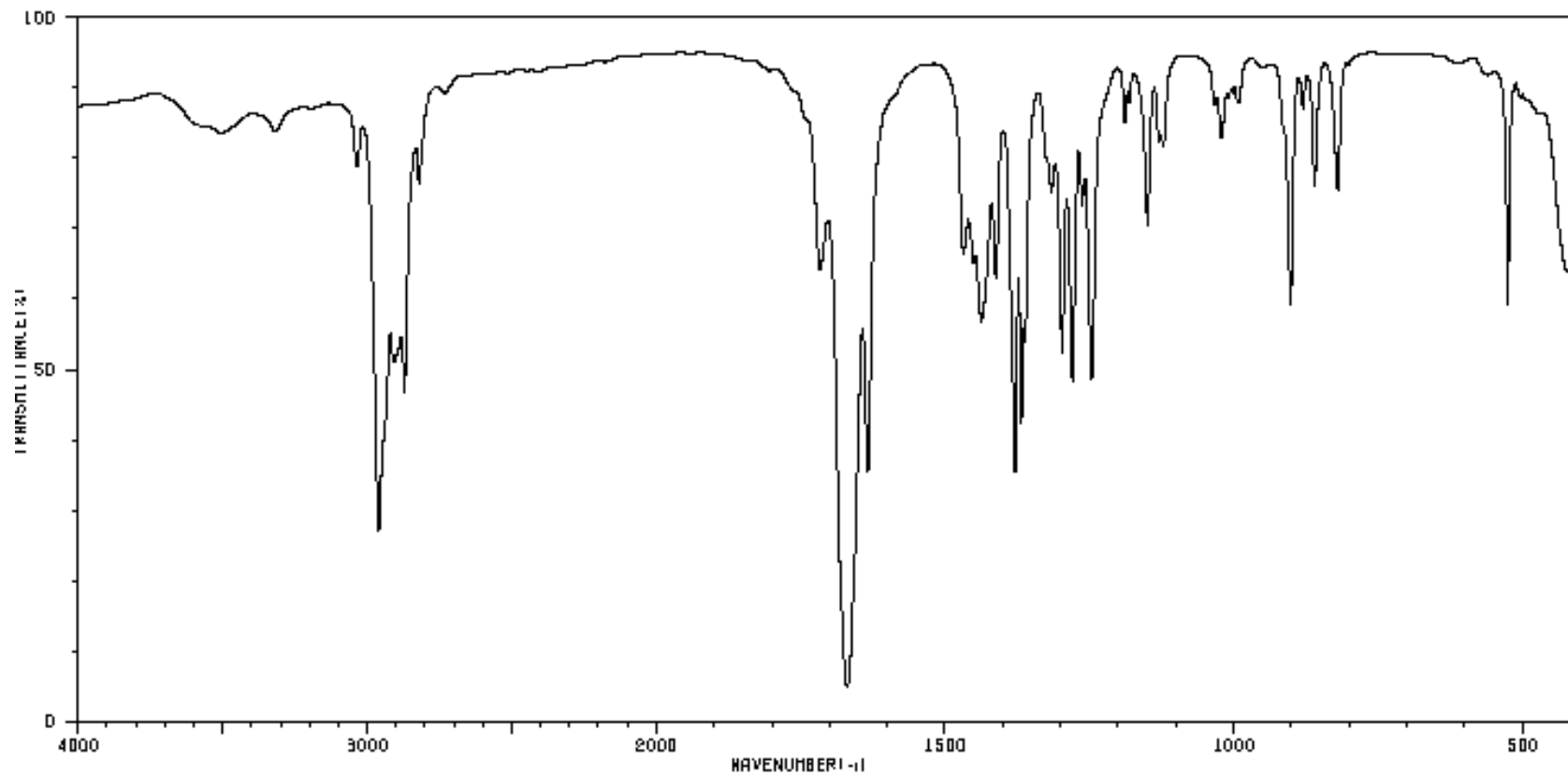
What functional groups?



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What functional groups?



What functional groups?

