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Spectroscopy Problems And  
Solutions

# **Mass Spectroscopy Problems And Solutions**

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## **Mass Spectroscopy Problems And Solutions**

Spectroscopy Problems. The following four problems test your ability to interpret infrared and mass spectra of an unknown compound. The first three problems are straightforward, but the

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fourth is more challenging. Select a problem by checking a radio button, and then click the "Show the Selected Problem" button. The actual spectra may be ...

## **Mass Spectrometry - Chemistry**

Mass spec interpretation presentation.  
Web Pages. Sample questions on

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Analytical MS. Mass spec practice problems. Videos. Example problem. Video tutorial. Mass spec interpretation. Analysing mass spectra video. Tutorial. Guide to solving MS problems. Interactive tutorial. A mass spec walkthrough. Mastering mass spec. A how-to guide. Step-by-step ...

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## **11.09 Solving Problems using Mass Spectrometry - Chemistry ...**

Spectroscopy Problems. In each of these problems you are given the IR, NMR, and molecular formula. Using this information, your task is to determine the structure of the compound. The best approach for spectroscopy problems is the following steps: Calculate the degree

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of unsaturation to limit the number of possible structures.

## **Spectroscopy Problems - Organic Chemistry**

The website offers problems and solutions corresponding to each chapter of Mass Spectrometry - A Textbook. This service is open to everyone and offered



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free of charge. Please bookmark this site, if you are interested in learning about mass spectrometry, mass spectral interpretation, instrumentation, and the full range of ionization methods such as EI, CI, FD, FAB, MALDI, and ESI.

**Mass Spectrometry - A Textbook, Problems and Solutions Website**

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Recent problems and advances in mass spectrometry (Review) Article (PDF Available) in Inorganic Materials 44(14):1482-1490 · December 2008 with 2,205 Reads How we measure 'reads'

**(PDF) Recent problems and advances in mass spectrometry ...**  
Problem Type: Interpret peaks in an ESI

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mass spectrum. Techniques: ESI mass spectrometry. Notes: This is modern ESI MS problem that focuses on the concepts of mass, charge, and molecular formula. 2012 Midterm Exam Part I.2. (2012-MT-I.2.pdf) Problem Type: Interpret peaks in EI and ESI mass spectra. Techniques: EI and ESI mass spectrometry.

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## **Problems from Previous Years' Exams**

Welcome to Spectroscopy Solutions. Spectroscopy Solutions ([www.spectroscopy-solutions.org](http://www.spectroscopy-solutions.org)) offers free learning from the experts covering methods, applications, webinars, eSeminars, videos and tutorials for users

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of Atomic, Raman, Infrared (IR), Near Infrared (NIR), UV VIS, NMR, ICP-MS, ICP-OES and related spectroscopic & analytical techniques.

## **Welcome to Spectroscopy Solutions**

Find out how isotopes can be detected using mass spectrometry. Learn about isotopes and how they relate to the

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average atomic mass of an element. Find out how isotopes can be detected using mass spectrometry. If you're seeing this message, it means we're having trouble loading external resources on our website.

**Isotopes and mass spectrometry (article) | Khan Academy**

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Welcome to WebSpectra - This site was established to provide chemistry students with a library of spectroscopy problems. Interpretation of spectra is a technique that requires practice - this site provides  $^1\text{H}$  NMR and  $^{13}\text{C}$  NMR, DEPT, COSY and IR spectra of various compounds for students to interpret. Hopefully, these problems will provide a

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useful resource to better understand spectroscopy.

## **WebSpectra - Problems in NMR and IR Spectroscopy**

Since problem solving is essential to achieving an effective mastery of the subject, it is recommended that many more problems be worked. Most organic



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chemistry textbooks contain a broad assortment of suitable problems, and paperback collections of practice problems are also available.

## **Organic Chemistry Practice Problems at Michigan State ...**

This website offers problems and solutions corresponding to each chapter

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of "Mass Spectrometry - A Textbook", 3rd edition. Please create your bookmark, if you are interested in learning about mass spectrometry, mass spectral interpretation, instrumentation, and the full range of ionization methods.

**Mass Spectrometry - A Textbook:  
About Book and Website**

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numbers 1246120, 1525057, and 1413739.

## **11.10 Solving Problems using IR and Mass Spec - Chemistry ...**

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for academic use without ...

## **Problem 2**

Combined IR Spectroscopy and Mass Spectrometry Problems Determine the molecular formula and possible structures for each unknown based on the given spectra. Use the IR Correlation Table. Note: DOU =

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$\#Cs + 1 - 0.5(\#Hs - \#Ns + \#halogens)$ .  
SHOW YOUR WORK! 1.

## **Combined IR Spectroscopy and Mass Spectrometry Problems**

MASS S PECTROMETRY (MS) Exercise 1:  
Determine the degree of unsaturation (IHD) for the hydrocarbons with the following molecular formulas: (a) C<sub>10</sub>

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H<sub>16</sub> HDI = 3 (b) C<sub>7</sub>H<sub>7</sub>NO HDI = 5 (c)

C<sub>8</sub>H<sub>9</sub>ClO HDI = 4 Exercise 2: An unknown substance shows a molecular ion peak at  $m/z = 170$  with a relative intensity of 100. The  $M + 1$  peak has an intensity of 13.2, and the  $M + 2$  peak has an intensity of 1.00.

## **MASS S PECTROMETRY (MS)**

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CHM 202 - Mass Spectrometry Problems (with some IR) 1. The two mass spectra below correspond to two isomers of  $C_5H_{10}O$ : 3-methyl-2-butanone and 3-pentanone. Draw the two structures. Match the spectrum with the compound and draw the fragment ion that corresponds to the base peak. a) b)



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## **CHM 202 - Mass Spectrometry Problems (with some IR)**

All four problems center on the same difficult task, identifying the structure of a compound under various conditions. There are three main instruments that perform this task for organic compounds, infrared spectroscopy, mass spectroscopy and nuclear magnetic

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resonance (NMR). It

## **CHAPTER 2 Fragmentation and Interpretation of Spectra 2.1 ...**

Mass spectra can be quite complicated and interpretation difficult. Some functional groups have characteristic fragmentation (sect. 12.4) It is difficult to assign an entire structure based only

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on the mass spectra. However, the mass spectra gives the mass and formula of the sample which is very important information.

**proton 1.00728 u**

13.24: Mass Spectrometry: molecular weight of the sample formula The mass spectrometer gives the mass to charge

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ratio ( $m/z$ ), therefore the sample (analyte) must be an ion. Mass spectrometry is a gas phase technique- the sample must be "vaporized."

Electron-impact ionization Sample Inlet  
10<sup>-7</sup> - 10<sup>-8</sup> torr R-H electron beam 70 eV  
(6700 KJ/mol)

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