

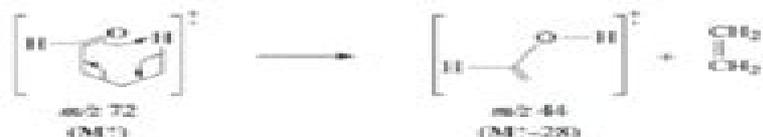
# Mass Spectrometry: PART 2

## some solved problems

### Question 1

- A compound with molecular formula  $C_4H_8O$  has a strong IR adsorption at  $1730\text{ cm}^{-1}$ . Its mass spectrum includes key peaks at  $m/z$  44 (the base peak) and  $m/z$  29. Propose a structure and write fragmentation equations showing how these peaks are formed.

Answer: the compound is butanal. The peak at  $m/z$  44 arises from a McLafferty rearrangement (see next slide for an example). This rearrangement happens to carbonyl compounds that have a hydrogen on their alpha carbon.



The peak at  $m/z$  29 arises from a fragmentation producing an acylium ion.



✧ Ketones

● McLafferty rearrangement



# Mass Spectroscopy Problems And Solutions

**J Spring**



## **Mass Spectroscopy Problems And Solutions:**

**Concise Organic Spectroscopy Problems with solutions** Basavarajaiah S M, 2022-11-25 This book Concise Organic Spectroscopy Problems with solutions illustrates the determination of structures of organic compounds by spectroscopic methods which are generally incorporated in the syllabi of Indian universities for undergraduate and postgraduate courses It covers the introductory part of all the spectroscopy techniques with questions and answers It also describes structure elucidation of organic compounds by spectra like UV IR NMR and mass spectral data This book is advantageous for students of UG PG and research students The Organic Chemistry Problem Solver Research and Education Association, 1998 Principal classes of organic compounds are covered Topics include nomenclature preparation synthesis and reactions characterization tests and spectroscopy **Organic Spectroscopy** William Kemp, 2017-03-01 This latest edition of the highly successful text Organic Spectroscopy continues to keep both student and researcher informed of the most recent developments in the various fields of spectroscopy New features of the third edition include 100 new student exercises worked examples and problem exercises An expanded chapter on nuclear magnetic resonance Details of the latest developments in Fourier transform instrumentation Mass Spectrometry: Techniques and Applications George W. A. Milne, 1971 **Encyclopedia of Spectroscopy and Spectrometry**, 2016-09-22 This third edition of the Encyclopedia of Spectroscopy and Spectrometry Three Volume Set provides authoritative and comprehensive coverage of all aspects of spectroscopy and closely related subjects that use the same fundamental principles including mass spectrometry imaging techniques and applications It includes the history theoretical background details of instrumentation and technology and current applications of the key areas of spectroscopy The new edition will include over 80 new articles across the field These will complement those from the previous edition which have been brought up to date to reflect the latest trends in the field Coverage in the third edition includes Atomic spectroscopy Electronic spectroscopy Fundamentals in spectroscopy High Energy spectroscopy Magnetic resonance Mass spectrometry Spatially resolved spectroscopic analysis Vibrational rotational and Raman spectroscopies The new edition is aimed at professional scientists seeking to familiarize themselves with particular topics quickly and easily This major reference work continues to be clear and accessible and focus on the fundamental principles techniques and applications of spectroscopy and spectrometry Incorporates more than 150 color figures 5 000 references and 300 articles for a thorough examination of the field Highlights new research and promotes innovation in applied areas ranging from food science and forensics to biomedicine and health Presents a one stop resource for quick access to answers and an in depth examination of topics in the spectroscopy and spectrometry arenas **Study and Problem Solving Guide to Accompany Principles of Modern Chemistry, Oxtoby/Nachtrieb** Wade A. Freeman, 1986 Nuclear Science Abstracts, 1966 Study Guide & Solutions Manual to Accompany Organic Chemistry, Third Edition G. Marc Loudon, Joseph G. Stowell, 1995 **Encyclopedia of Spectroscopy** Heinz-Helmut

Perkampus,1995-03-07 Covers spectroscopic principles methods and applications ranging from atomic to molecular spectroscopy Many entries on instrumentations will help in trouble shooting spectrometers *The Mass Spectra of Organic Molecules* John Herbert Beynon,R. A. Saunders,Albert Edward Williams,1968 *Organic Chemistry, Study Guide* T. W. Graham Solomons,1988-03-08 This class tested text reflects the refinements made in previous editions while expanding updating and adding new information on many important topics Adopting a bio organic emphasis it introduces functional groups early in the text providing an overview of and preparation for subsequent discussions This edition includes increased coverage of Carbon 13 spectra an expanded treatment of conformational effects of molecules with two sections covering basic geometries of molecules and an in depth overview of the subject plus new material on transition metal chemistry and carbohydrate metabolism Worked out examples have been added to chapters on synthesis and end of chapter problems have been expanded by more than 200 The text also includes exceptional full color graphics illustrating conformational effects and general stereochemical properties of organic substances **New Scientist** ,1974 **Liquid Chromatography--mass Spectrometry** Wilfried M. A. Niessen,Jan Greef,1992 Organic Chemistry Study Guide & Problems Book Brent L. Iverson,1998 Companion to Organic chemistry 2nd ed by William H Brown Provides a detailed section by section overview of the major points covered in the text All of the problems from the text are reprinted here with detailed stepwise solutions Scanning Electron Microscopy ,1984 Vols for 1968 77 include the proceedings of the annual Scanning Electron Microscope Symposium sponsored by the IIT Research Institute and other workshops **Optics and Spectroscopy** ,1968 *Applied Spectroscopy* ,2008 **Physics Briefs** ,1983 Pandex Current Index to Scientific and Technical Literature ,1971 *International Aerospace Abstracts* ,1997

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