

| | | | |
|----|---|--|--|
| 1 |  | | |
| | 2-butanone | | |
| | $\text{C}_4\text{H}_8\text{O}$ | | |
| 2 |  | | |
| | propionic acid | | |
| | $\text{C}_3\text{H}_6\text{O}_2$ | | |
| 3 |  | | |
| | ethyl acetate | | |
| | $\text{C}_4\text{H}_8\text{O}_2$ | | |
| 4 |  | | |
| | methyl proponate | | |
| | $\text{C}_4\text{H}_8\text{O}_3$ | | |
| 5 |  | | |
| | 1,2-dibromopropane | | |
| | $\text{C}_3\text{H}_6\text{Br}_2$ | | |
| 6 |  | | |
| | 1,2-butanedione (diacetyl) | | |
| | $\text{C}_4\text{H}_6\text{O}_2$ | | |
| 7 |  | | |
| | succinonitrile | | |
| | $\text{C}_4\text{H}_6\text{N}_2$ | | |
| 8 |  | | |
| | 2,2,3,3-tetramethylbutane | | |
| | C_8H_{18} | | |
| 9 |  | | |
| | pinacol | | |
| | $\text{C}_4\text{H}_{10}\text{O}_2$ | | |
| 10 |  | | |
| | 1,4-cyclohexanedione | | |
| | $\text{C}_6\text{H}_{10}\text{O}_2$ | | |
| 11 |  | | |
| | cyclopentanone | | |
| | $\text{C}_5\text{H}_8\text{O}$ | | |
| 12 |  | | |
| | iodoethane | | |
| | $\text{C}_2\text{H}_5\text{I}$ | | |
| 13 |  | | |
| | 1,1-dichloroethane | | |
| | $\text{C}_2\text{H}_4\text{Cl}_2$ | | |
| 14 |  | | |
| | 2-propanol | | |
| | $\text{C}_3\text{H}_6\text{O}$ | | |
| 15 |  | | |
| | 2-bromopropane | | |
| | $\text{C}_3\text{H}_6\text{Br}$ | | |
| 16 |  | | |
| | 1,4-dichlorobutane | | |
| | $\text{C}_4\text{H}_8\text{Cl}_2$ | | |

Organic Structures From Spectra Solutions

Arthur James Wells

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Organic Structures from Spectra L. D. Field, H. L. Li, A. M. Magill, 2020-04-22 The derivation of structural information from spectroscopic data is now an integral part of organic chemistry courses at all Universities A critical part of any such course is a suitable set of problems to develop the students understanding of how organic structures are determined from spectra The book builds on the very successful teaching philosophy of learning by hands on problem solving carefully graded examples build confidence and develop and consolidate a student s understanding of organic spectroscopy **Organic Structures from Spectra** 6th Edition is a carefully chosen set of about 250 structural problems employing the major modern spectroscopic techniques including Mass Spectrometry 1D and 2D 13C and 1H NMR Spectroscopy and Infrared Spectroscopy There are 25 problems specifically dealing with the interpretation of spin spin coupling in proton NMR spectra and 10 problems based on the quantitative analysis of mixtures using proton and carbon NMR spectroscopy The accompanying text is descriptive and only explains the underlying theory at a level that is sufficient to tackle the problems The text includes condensed tables of characteristic spectral properties covering the frequently encountered functional groups The examples themselves have been selected to include all important structural features and to emphasise connectivity arguments and stereochemistry Many of the compounds were synthesised specifically for this book In this collection there are many additional easy problems designed to build confidence and to demonstrate basic principles The Sixth Edition of this popular textbook now incorporates many new problems using 2D NMR spectra C H Correlation spectroscopy HMBC COSY NOESY and TOCSY has been expanded and updated to reflect the new developments in NMR spectroscopy has an additional 40 carefully selected basic problems provides a set of problems dealing specifically with the quantitative analysis of mixtures using NMR spectroscopy features proton NMR spectra obtained at 200 400 and 600 MHz and 13C NMR spectra including routine 2D C H correlation HMBC spectra and DEPT spectra contains a selection of problems in the style of the experimental section of a research paper includes examples of fully worked solutions in the appendix has a complete set of solutions available to instructors and teachers from the authors **Organic Structures from Spectra** Sixth Edition will prove invaluable for students of Chemistry Pharmacy and Biochemistry taking a first course in Organic Chemistry

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L. D. Field,A. M. Magill,H. L. Li,2015-03-30

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