

# Solutions to the Problems

## Chapter 1

1.1. These questions can be answered by comparing the electron-accepting capacity and relative location of the substituents groups. The most acidic compounds are those with the most stabilized anions.

- In (a) the most difficult choice is between nitroethane and dicyanomethane. Table 1.1 indicates that nitroethane ( $pK = 8.6$ ) is more acidic in hydroxylic solvents, but that the order might be reversed in DMSO, judging from the high  $pK_{\text{DMSO}}$  (17.2) for nitromethane. For hydroxylic solvents, the order should be  $\text{CH}_3\text{CH}_2\text{NO}_2 > \text{CH}_2(\text{CN})_2 > (\text{CH}_3)_2\text{CHC}=\text{O}(\text{Ph}) > \text{CH}_3\text{CH}_2\text{CN}$ .
- The comparison in (b) is between N–H, O–H, and C–H bonds. This order is dominated by the electronegativity difference, which is  $\text{O} > \text{N} > \text{C}$ . Of the two hydrocarbons, the aryl conjugation available to the carbanion of 2-phenylpropane makes it more acidic than propane.  $(\text{CH}_3)_2\text{CHOH} > [(\text{CH}_3)_2\text{CH}]_2\text{NH} > (\text{CH}_3)_2\text{CHPh} > \text{CH}_3\text{CH}_2\text{CH}_3$ .
- In (c) the two  $\beta$ -dicarbonyl compounds are more acidic, with the diketone being a bit more acidic than the  $\beta$ -ketoester. Of the two monoesters, the phenyl conjugation will enhance the acidity of methyl phenylacetate, whereas the nonconjugated phenyl group in benzyl acetate has little effect on the  $pK$ .



- In (d) the extra stabilization provided by the phenyl ring makes benzyl phenyl ketone the most acidic compound of the group. The cross-conjugation in 1-phenylbutanone has a smaller effect, but makes it more acidic than the aliphatic ketones. 3,3-Dimethyl-2-butanone (methyl *t*-butyl ketone) is more acidic than 2,2,4-trimethyl-3-pentanone because of the steric destabilization of the enolate of the latter.



# Carey And Sundberg Part B Solutions Manual

**Biswanath Dinda**



## Carey And Sundberg Part B Solutions Manual:

**Advanced Organic Chemistry** Francis A. Carey, Richard J. Sundberg, 2007-11-24 Since its original appearance in 1977 Advanced Organic Chemistry has maintained its place as the premier textbook in the field offering broad coverage of the structure reactivity and synthesis of organic compounds As in the earlier editions the text contains extensive references to both the primary and review literature and provides examples of data and reactions that illustrate and document the generalizations While the text assumes completion of an introductory course in organic chemistry it reviews the fundamental concepts for each topic that is discussed The two part fifth edition has been substantially revised and reorganized for greater clarity Among the changes Updated material reflecting advances in the field since 2001 s Fourth Edition especially in computational chemistry A companion Web site provides digital models for study of structure reaction and selectivity Solutions to the exercises provided to instructors online The control of reactivity to achieve specific syntheses is one of the overarching goals of organic chemistry Part B describes the most general and useful synthetic reactions organized on the basis of reaction type Together with Part A Structure and Mechanisms the two volumes are intended to provide the advanced undergraduate or beginning graduate student in chemistry with a sufficient foundation to comprehend and use the research literature in organic chemistry     Books in Print Supplement ,1982     **Scientific and Technical Books and Serials in Print** ,1989     Core List of Books and Journals in Science and Technology Russell H. Powell, James R. Powell, 1987-10     Books in Print ,1994     **Paperbound Books in Print 1995** Reed Reference Publishing, R5ference Reed, 1995-12     Subject Guide to Books in Print ,1984     **Nature** Sir Norman Lockyer, 1869     Essentials of Pericyclic and Photochemical Reactions Biswanath Dinda, 2016-11-18 This book provides a concise introduction to pericyclic and photochemical reactions for organic synthesis In the first part about pericyclic reactions the author explains electrocyclic reactions cycloaddition reactions sigmatropic rearrangements and group transfer reactions The second part on photochemistry is dedicated to photochemical reactions of a variety of compound classes including alkenes dienes and polyenes carbonyl compounds and aromatic compounds Additionally photofragmentation reactions are described in a dedicated chapter The last chapter gives an outlook on applications of photochemistry and natural photochemical phenomena Both parts start with a comprehensive presentation of the general principles of the pericyclic and photochemical reactions All chapters are rich in examples which help illustrate the explained principles and establish ties to results and trends in recent research Additionally each chapter offers exercises for students and solutions to the problems are provided in a separate appendix This book nicely illustrates the utility of pericyclic and photochemical reactions and provides students and researchers with the tools to apply them routinely for an efficient synthesis of complex organic molecules It will therefore appeal to advanced undergraduate students graduate and postgraduate students and even to practitioners and scientists in the field of organic synthesis The rich examples and exercises will also make it a versatile tool for teachers and lecturers

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web coordinates of  $v$  the standard coordinates are  $v_3$  are the  $b_1$   $b$  are assumed if no other basis is specified this means  $v = 3e_1 + 4e_2 + 4e_5 + 2e_{v_2}$  if  $b = \{v_1, v_2\}$  is a basis of  $\mathbb{R}^n$  then the matrix  $S$  which contains the vectors  $v_k$  as column vectors is called the coordinate change matrix

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web and now that we know what  $d$  is we can now solve for  $a$  we can now solve for the transformation matrix with respect to

the standard basis so to do that we have to figure out  $c$  and  $c$  inverse so  $c$  remember  $c$  is just the change of basis matrix and all that is is the basis vectors it's just a matrix with the basis vectors in the column

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web any vector  $v$  represented in  $b$  can be transformed to a representation in  $c$  as follows under the transformation of basis notice that the superscript on the transformation matrix  $m$  and the subscript on the coordinate vector  $v$  are the same and seemingly cancel leaving the remaining subscript

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