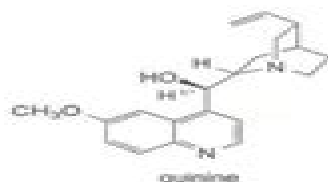


5.65



a.

$$\frac{-50}{-165} \times 100\% = 30\% \text{ ee}$$

$$\frac{-83}{-165} \times 100\% = 50\% \text{ ee}$$

$$\frac{-120}{-165} \times 100\% = 73\% \text{ ee}$$

c. $[\alpha] = +165$ d. $80\% - 20\% = 60\% \text{ ee}$

b.

30% ee = 30% excess one compound (A)
 remaining 70% = mixture of 2 compounds (35% each A and B)
 Amount of A = 30 + 35 = 65%
 Amount of B = 35%

50% ee = 50% excess one compound (A)
 remaining 50% = mixture of 2 compounds (25% each A and B)
 Amount of A = 50 + 25 = 75%
 Amount of B = 25%

73% ee = 73% excess of one compound (A)
 remaining 27% = mixture of 2 compounds (13.5% each A and B)
 Amount of A = 73 + 13.5 = 86.5%
 Amount of B = 13.5%

quinine = A
 quinine's enantiomer = B

$$\text{e. } 60\% = \frac{[\alpha] \text{ mixture}}{-165} \times 100\%$$

$$[\alpha] \text{ mixture} = -99$$

5.66

a. The 11 stereogenic centers are circled. Maximum number of stereoisomers = $2^{11} = 2048$

b. Enantiomers of mandelic acid:



c. $60\% - 40\% = 20\% \text{ ee}$
 $20\% = [\alpha] \text{ mixture} / -154 \times 100\%$
 $[\alpha] \text{ mixture} = -31$

$$\text{d. } \text{ee} = \frac{+50}{+154} \times 100\% = 32\% \text{ ee}$$

$[\alpha]$ for (S)-mandelic acid = +154

32% excess of the S enantiomer
 68% of racemic R and S = 34% S and 34% R

S enantiomer: 32% + 34% = 66%
 R enantiomer = 34%

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RC Schank



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Education, and Materials Science Aspects Ponnadurai Ramasami, 2022-10-03 Chapters collected from The Virtual Conference on Chemistry and its Applications VCCA 2021 Research and Innovations in Chemical Sciences Paving the Way Forward This conference was held in August 2021 and organized by the Computational Chemistry Group of the University of Mauritius These peer reviewed chapters offer insights into research on fundamental and applied chemistry with interdisciplinary subject matter *The Cumulative Book Index* ,1989 A world list of books in the English language **Organic Chemistry**

Pierre Vogel, Kendall N. Houk, 2019-10-07 Provides the background tools and models required to understand organic synthesis and plan chemical reactions more efficiently Knowledge of physical chemistry is essential for achieving successful chemical reactions in organic chemistry Chemists must be competent in a range of areas to understand organic synthesis Organic Chemistry provides the methods models and tools necessary to fully comprehend organic reactions Written by two internationally recognized experts in the field this much needed textbook fills a gap in current literature on physical organic chemistry Rigorous yet straightforward chapters first examine chemical equilibria thermodynamics reaction rates and mechanisms and molecular orbital theory providing readers with a strong foundation in physical organic chemistry Subsequent chapters demonstrate various reactions involving organic organometallic and biochemical reactants and catalysts Throughout the text numerous questions and exercises over 800 in total help readers strengthen their comprehension of the subject and highlight key points of learning The companion Organic Chemistry Workbook contains complete references and answers to every question in this text A much needed resource for students and working chemists alike this text Presents models that establish if a reaction is possible estimate how long it will take and determine its properties Describes reactions with broad practical value in synthesis and biology such as C C coupling reactions pericyclic reactions and catalytic reactions Enables readers to plan chemical reactions more efficiently Features clear illustrations figures and tables With a Foreword by Nobel Prize Laureate Robert H Grubbs Organic Chemistry Theory Reactivity and Mechanisms in Modern Synthesis is an ideal textbook for students and instructors of chemistry and a valuable work of reference for organic chemists physical chemists and chemical engineers **Educational Times** ,1892 **Paperbound Books in Print** ,1991 **The British National Bibliography** Arthur James Wells, 2004 **Subject Guide to Books in Print** ,1983 *The Publishers Weekly* ,1918 **Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office, 1964 Includes Part 1 Number 1 Books and Pamphlets Including Serials and Contributions to Periodicals

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