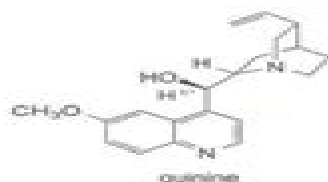


## 5.65



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%

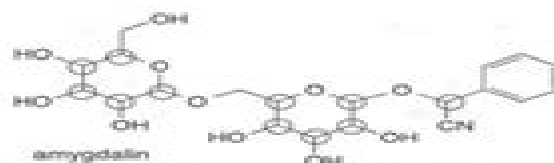
73% ee = 73% excess of one compound (A)  
 remaining 27% = mixture of 2 compounds (13.5% each A and B)  
 Amount of A = 73 + 13.5 = 86.5%  
 Amount of B = 13.5%

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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**BM King**



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Brown, 2012-12-27 This is the student solutions manual to accompany Introduction to Organic Chemistry 5th Edition

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### **Table of Contents Organic Chemistry 6th Edition Hybrid Solution Manual**

1. Understanding the eBook Organic Chemistry 6th Edition Hybrid Solution Manual
  - The Rise of Digital Reading Organic Chemistry 6th Edition Hybrid Solution Manual
  - Advantages of eBooks Over Traditional Books
2. Identifying Organic Chemistry 6th Edition Hybrid Solution Manual
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Organic Chemistry 6th Edition Hybrid Solution Manual
  - User-Friendly Interface
4. Exploring eBook Recommendations from Organic Chemistry 6th Edition Hybrid Solution Manual

- 
- Personalized Recommendations
  - Organic Chemistry 6th Edition Hybrid Solution Manual User Reviews and Ratings
  - Organic Chemistry 6th Edition Hybrid Solution Manual and Bestseller Lists
5. Accessing Organic Chemistry 6th Edition Hybrid Solution Manual Free and Paid eBooks
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    - Organic Chemistry 6th Edition Hybrid Solution Manual Budget-Friendly Options
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    - Organic Chemistry 6th Edition Hybrid Solution Manual Enhanced eBook Features
  7. Enhancing Your Reading Experience
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    - Highlighting and Note-Taking Organic Chemistry 6th Edition Hybrid Solution Manual
    - Interactive Elements Organic Chemistry 6th Edition Hybrid Solution Manual
  8. Staying Engaged with Organic Chemistry 6th Edition Hybrid Solution Manual
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Organic Chemistry 6th Edition Hybrid Solution Manual
  9. Balancing eBooks and Physical Books Organic Chemistry 6th Edition Hybrid Solution Manual
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Organic Chemistry 6th Edition Hybrid Solution Manual
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Organic Chemistry 6th Edition Hybrid Solution Manual
    - Setting Reading Goals Organic Chemistry 6th Edition Hybrid Solution Manual
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Organic Chemistry 6th Edition Hybrid Solution Manual

- Fact-Checking eBook Content of Organic Chemistry 6th Edition Hybrid Solution Manual
- Distinguishing Credible Sources

### 13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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