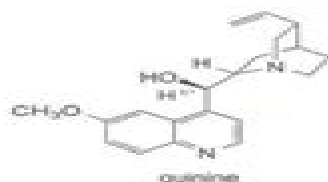


5.65



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%

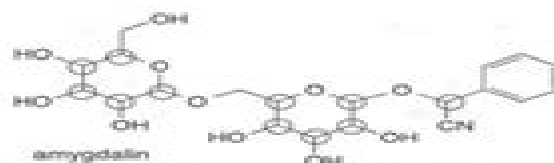
73% ee = 73% excess of one compound (A)
 remaining 27% = mixture of 2 compounds (13.5% each A and B)
 Amount of A = 73 + 13.5 = 86.5%
 Amount of B = 13.5%

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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