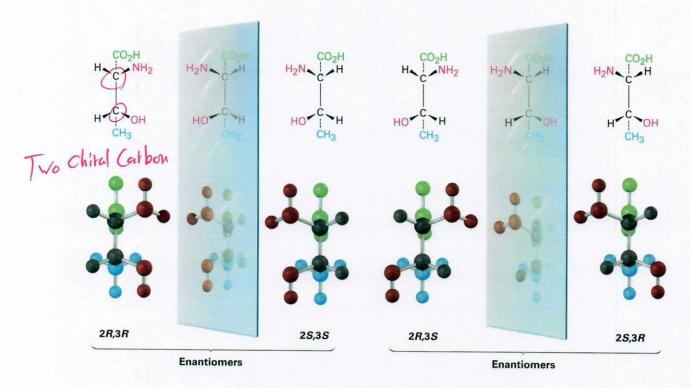
P131 (Text book, or P32 on ppt)



A B C D

1. 2-ammo-3-hydroxybutanoic acid

has $2^{2}=4$ Stereo somers. (A,B,C,D)

2. A has one enantiomers (B). A and B are enanthomers.
B has one enantiomers (A) and

Cand Date enantlowers.

3. A has two diastereomers. (C.D)

B has also two diastereomets. (C.D)

c has two diastereomers (A. B)

D has also two diastereomors (A.B)

P132 (Text book) Problem 5-13.

(G), (b), (c), and (d) are store somers.

- (a) and (d) are onantiomers.
- (b) and (c) are onan-tlomets.
- (a) has two diastereomers, (b) and (c)
- (d) has two diastereomers, (b) and (c)
- (b) has two dlastereomers, (a) and (d)
- (c) has two diastereomers, (a) and (d).

p 133 (text) p 33 (ppt) p+Dblem 5-14.

has 5 chitality centers.

Total stere somets = 25 = 32

Problem 5-18. \(\frac{1}{2}\) \(\text{a}\) which one is a meso compound? \(\text{ca}\) \(\text{d}\) \(\text{d

The Neff structure and the right structure are same

So, this compound is a meso compound.

(d) Br Cols

Rotate the C3

Mittor

Br

Br

Cols

Mittor

This compound is also a meso compound.

Problem 5-17-1. (a) 2-3 - Butamedia C2 is chiral and has 5 configuration. HO H (3 is chital and has k configuration. (25, 3K) - 2.3 - Butanediol Is a meso compound. HO CH3 C 2 to has 5 configuration CU/3 / 1 ON C3 has sconflguraflon. (25, 35) -23 - Bontanediol Is not a mesocompand. CH3 CM3 C2 has R configuration C3 has R configuration. Ho ! Day

(2R, 3R)-2.3- Butanedial is not a meso compound

Problem 5-17-2.

(b) 2.3-pentamedial.

HO HO CH3

CO CH3

HO HO CH3

CO CH3

CO CH3

CO CH3

is not a meso compound.

(C) 2-4 - pentamedlol.

C2 is chital

and has S configuration.

CH is oblital and has R configuration.

(25, 4R)-2.4-Pentanedol Is a meso compound.

HONE CH3

C2 has S configuration

CY3 ON

C4 has S configuration.

(25.45)-2.4-Pentamedlel Is not a meso compound.

Problem 5-17-3.

HO CH3

Ca has k configuration

C4 has R configuration.

(2R, 4R) - 2.4 - Pentamedial is not a meso compound.

1 40. (ppt) How to seperate tacemic mixture. R - configuration enan-lumets) S - configuration physical and chemical properties are same. I make salt with base R-configuration + R-formed base S-conifigration + R-formed base. D lastereo mets Physical and chemical properties are different. So they are seperated. I cleave the base R-configuration, S-configuration.

1 to blems-20 4 --- c cy3 (R) - Lactic acid (+) - Lactle acld. (5) -1- pheny -ethylamine (s) - Lactle acld (-) - Lactle acld. levototatory. (5,5)

(R.S) configuration and (S.S) configuration are diastereomers.

So (R.S) and (S,S) are seperated.