

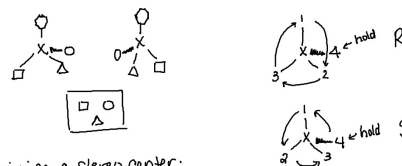
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Chirality

Properties of Enantiomers:

- ① have identical mp, bp, densities + solubilities.
- ② they can rotate polarized light.
 - Clockwise = dextrorotary
 - Counter clockwise = levorotatoryThey are referred to as "optically active"
- a 50/50 mix is called a racemic mixture, these will appear to be optically inactive.

2^n Rule where -
 n = # of stereocenters
in a molecule

- ③ they often have different biological properties because enzymes can often distinguish between right + left:



Determining a stereo center:

- ① Determine the priority of each connector, 1 being highest, 4 being lowest
- ② hold #4 in your hand so that the remaining 3 attachments face you.
Connect the attachments to determine clockwise = "R" or
Counterclockwise = "S"