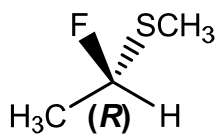


Workshop 9 Solutions
Achiral or Chiral?

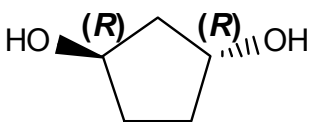


All molecules with one chiral center are chiral.

CHIRAL

or

ACHIRAL ?

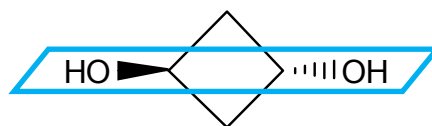


The mirror image of an (R,R) molecule is (S,S). That's not the same. So this is chiral.

CHIRAL

or

ACHIRAL ?

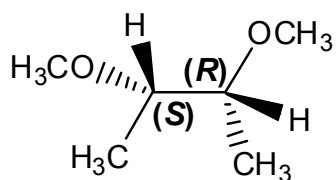


This molecule has no chiral centers, and that's a tip. But it also has a plane of symmetry. Achiral.

CHIRAL

or

ACHIRAL ?

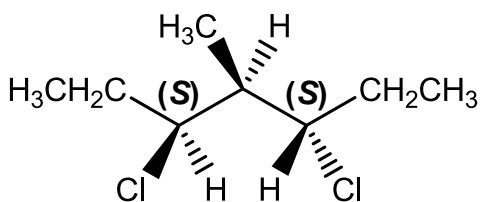


This molecule has an equal number of (R) and (S) stereocenters, and the groups attached to each are the same. This molecule is meso.

CHIRAL

or

ACHIRAL ?



On the other hand, this isn't meso. Chiral.

CHIRAL

or

ACHIRAL ?