

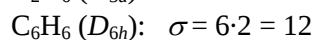
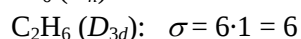
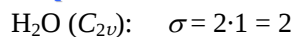
Department:	ID#:	Name:
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3. External Nuclear Motions

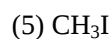
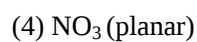
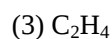
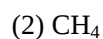
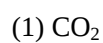
3.2 External rotation

Rotational symmetry number

[examples]

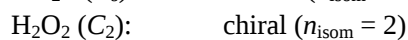
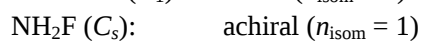
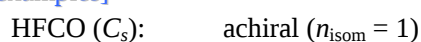


[Exercise-3.1] Count rotational symmetry number of following molecules.



Number of isomers (chirality)

[examples]



[Exercise-3.2] Determine whether the molecule is chiral ($n_{\text{isom}} = 2$) or achiral ($n_{\text{isom}} = 1$).

