

Name(s): _____

Stereochemistry & Coordination Complexes

<http://chemconnections.org/jmol-pdb/coord-ex1.html>

Match the molecules that are found in the link above with the descriptions below.

1. Identical molecules: _____ and _____
2. Enantiomers: _____ and _____
3. Linkage isomers: _____ and _____
4. An optically active octahedral complex: _____
5. Pentaamminesulfatocobalt(III): _____
6. Mirror images: _____ and _____
7. A metallo porphyrin: _____
8. A cis square planar complex: _____
9. A cis octahedral complex: _____
10. A trans square planar complex: _____
11. A trans octahedral complex: _____
12. A tetrahedral molecule: _____
13. $[\text{Co}(\text{NH}_3)_4\text{Cl}_2]^+$: _____
14. Coordination number = 5: _____
15. Coordination number = 4, sp^3d^2 hybridization, low spin: _____