

Supplemental Material for:

Design and Synthesis of Self Assembled Monolayers on Mesoporous Supports (SAMMS): The Importance of Ligand Posture in Functional Nanomaterials

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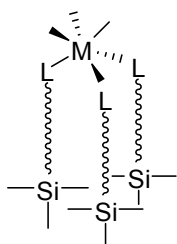


Figure SM-1. Monodentate ligands coordinated to an octahedral complex, filling three of the available six sites, leaving three available for additional chemistry.

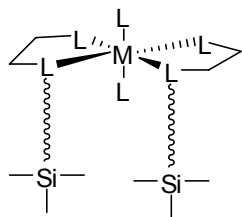


Figure SM-2. Bidentate ligands held in the horizontal ligand posture are compatible with an octahedral complex by filling the equatorial plane.

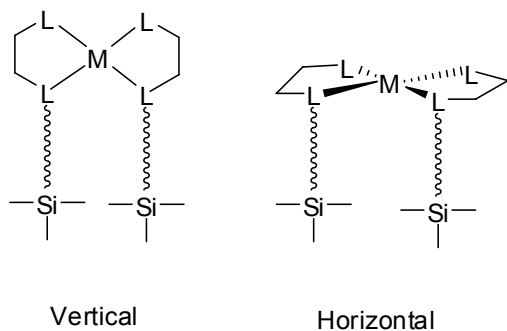


Figure SM-3. Bidentate ligands in both the vertical and horizontal postures are able to easily accommodate transition metal complexes with the square planar coordination geometry.

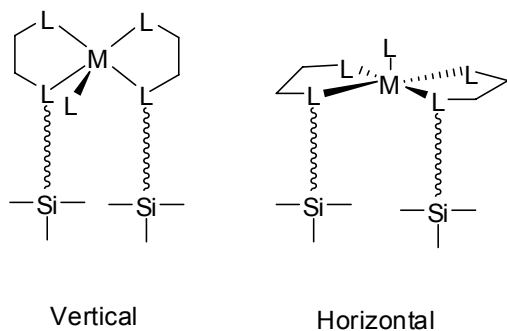


Figure SM-4. Bidentate ligands in both the vertical and horizontal ligand posture can be used to build square pyramidal complexes.

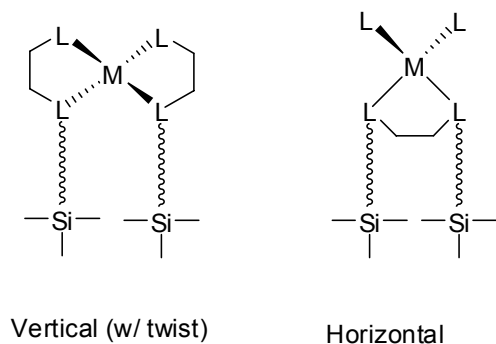


Figure SM-5. Schematic showing tetrahedral coordination geometry with the vertical twist ligand posture and horizontal ligand posture two coordinate geometry.