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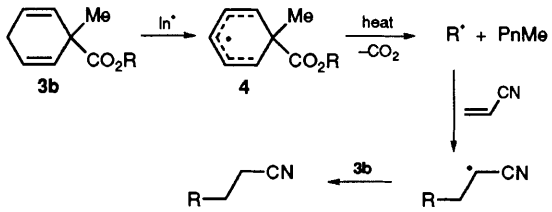
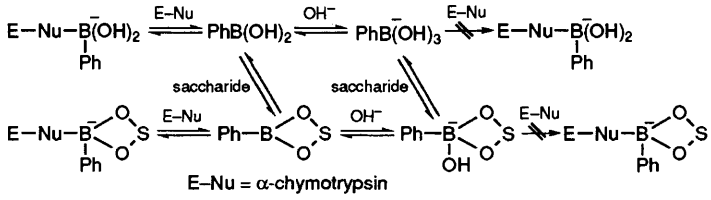
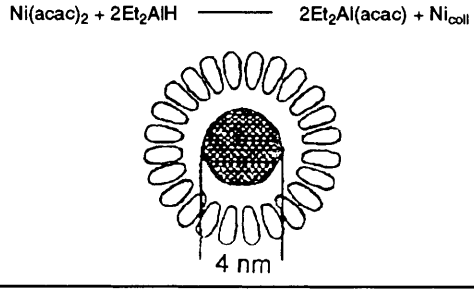
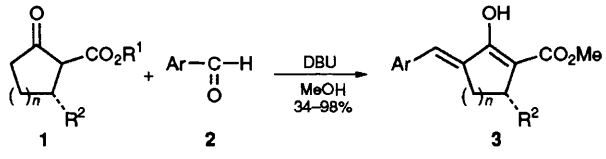
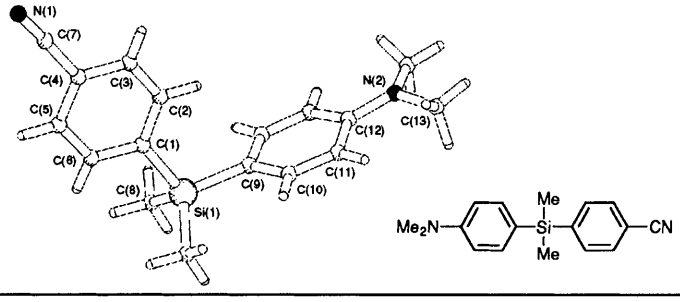
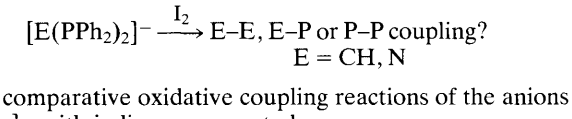




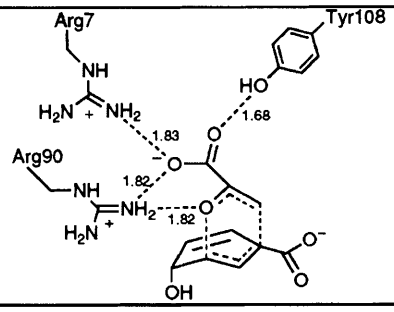


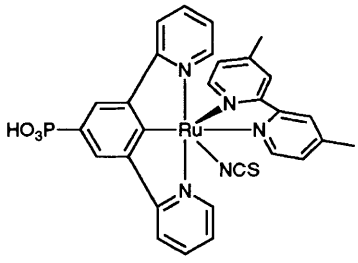


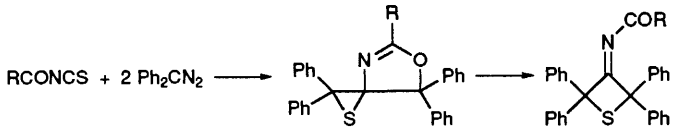


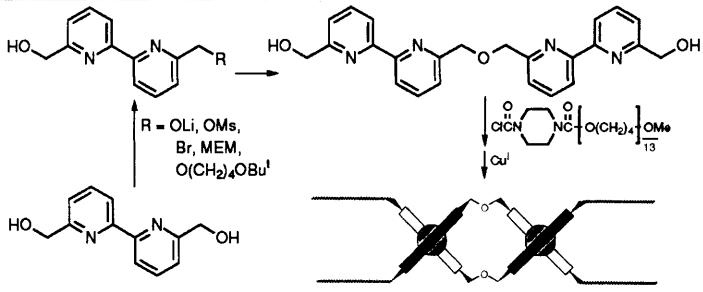


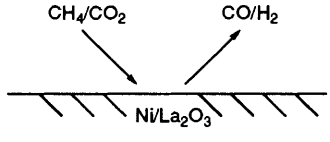
The first comparative oxidative coupling reactions of the anions $[E(PPh_2)_2]^-$ with iodine are reported.





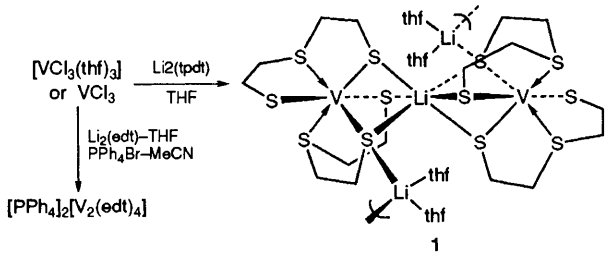


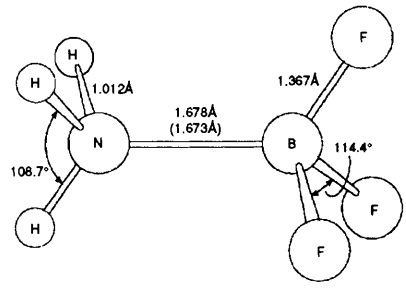


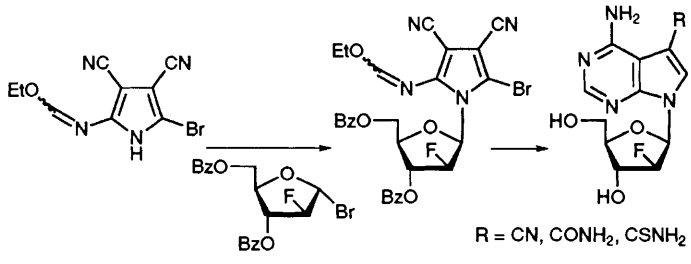


$$CO_2 + H_2 + NH_3 \xrightarrow[0.6\,MPa,\ 473\text{–}553\,K]{Cu\text{–}Al_2O_3} MMA, DMA, TMA$$

Methylamines can be directly synthesized from CO_2–H_2–NH_3 over Cu–Al_2O_3, affording a distribution of monomethylamine (MMA) : dimethylamine (DMA) : trimethylamine (TMA) of 1 : 0.23 : 0.07.







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