Hydroamination of ferrocene-containing electron-deficient alkenes and alkynes

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The complexes $RuCl_2(dmso)_4$ and $RhCl(PPh_3)_3$ was found to be effective homogeneous catalysts for rearrangement of functionalized aldoximes into primary amides. Several ferrocene-containing amido and cyano alkenes and alkynes have been synthesized. These electron-deficient alkenes and alkynes will be used in hydroamination with primary, secondary amines and N-heterocycles.