Supporting Information

Catalytic Hydrogenation of Carbonyl and Nitro Compounds Using [NO]-chelate Half-Sandwich Ruthenium Catalyst

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¹H NMR of L2



¹H NMR of L3



¹H NMR of L4



¹H NMR of complex 1



¹H NMR of complex 2





¹H NMR of complex 4



The NMR tube containing the solution of 1 (8.9 mg, 0.02 mmol) in dry C_6D_6 (ca. 0.6 mL) was pressurized with H₂ (5 atm). NMR spectrum was recorded. A singlet at -11.22 ppm was exhibited in the ¹H NMR spectrum, which can be assigned to the Ru–H bond.



TGA curves of complexes 1-4

