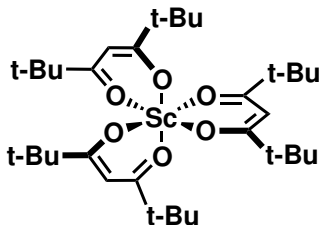
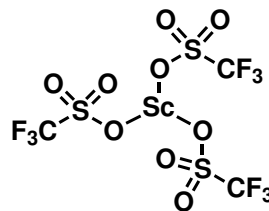


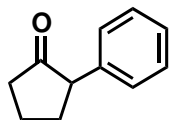
Sc(acac)₃



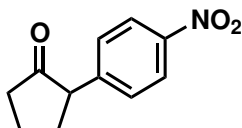
Sc(TMHD)₃



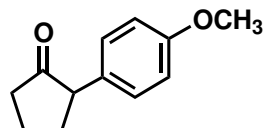
Sc(OTf)₃



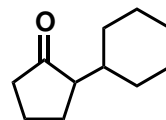
5 mol % Sc(OTf)₃
98% yield



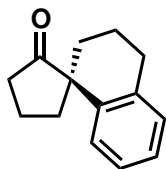
5 mol % Sc(OTf)₃
98% yield



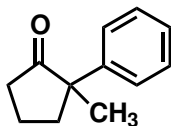
10 mol % Sc(acac)₃
45% yield



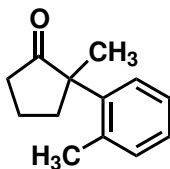
10 mol % Sc(acac)₃
85% yield



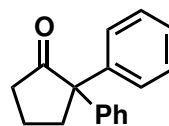
10 mol % Sc(OTf)₃
96% yield



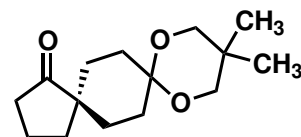
10 mol % Sc(OTf)₃
88% yield



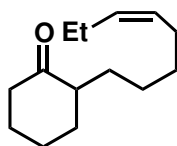
10 mol % Sc(OTf)₃
72% yield



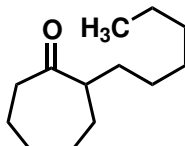
10 mol % Sc(OTf)₃
80% yield



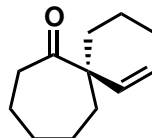
10 mol % Sc(TMHD)₃
78% yield



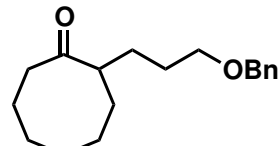
10 mol % Sc(TMHD)₃
60% yield



10 mol % Sc(TMHD)₃
86% yield



10 mol % Sc(OTf)₃
97% yield



10 mol % Sc(TMHD)₃
91% yield