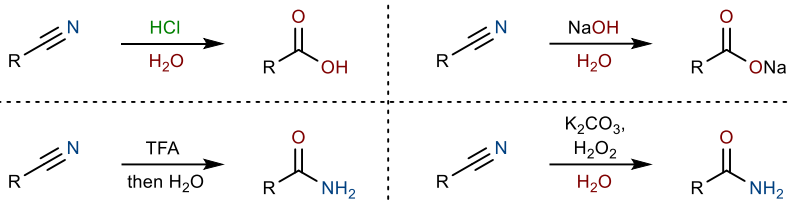
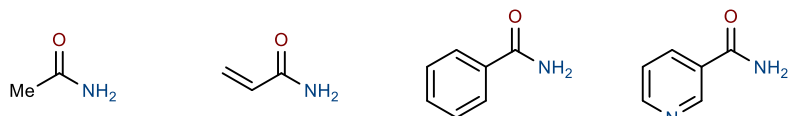
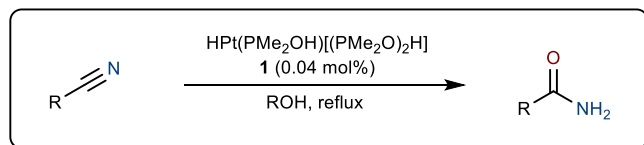
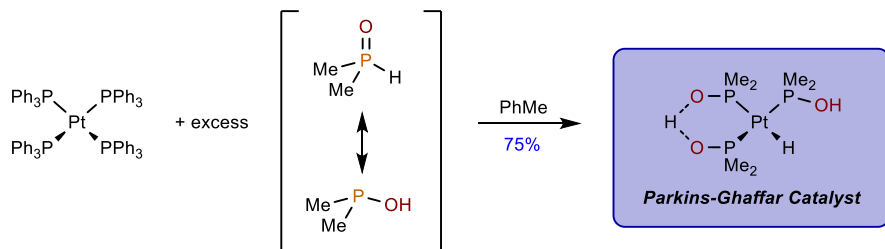


Classical Nitrile Hydrolysis and Hydration

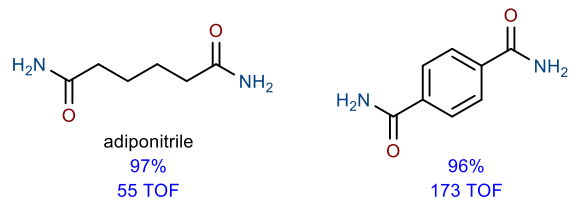


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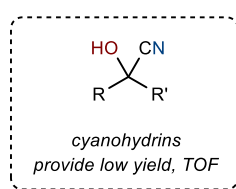
Parkins-Ghaffar Catalyst



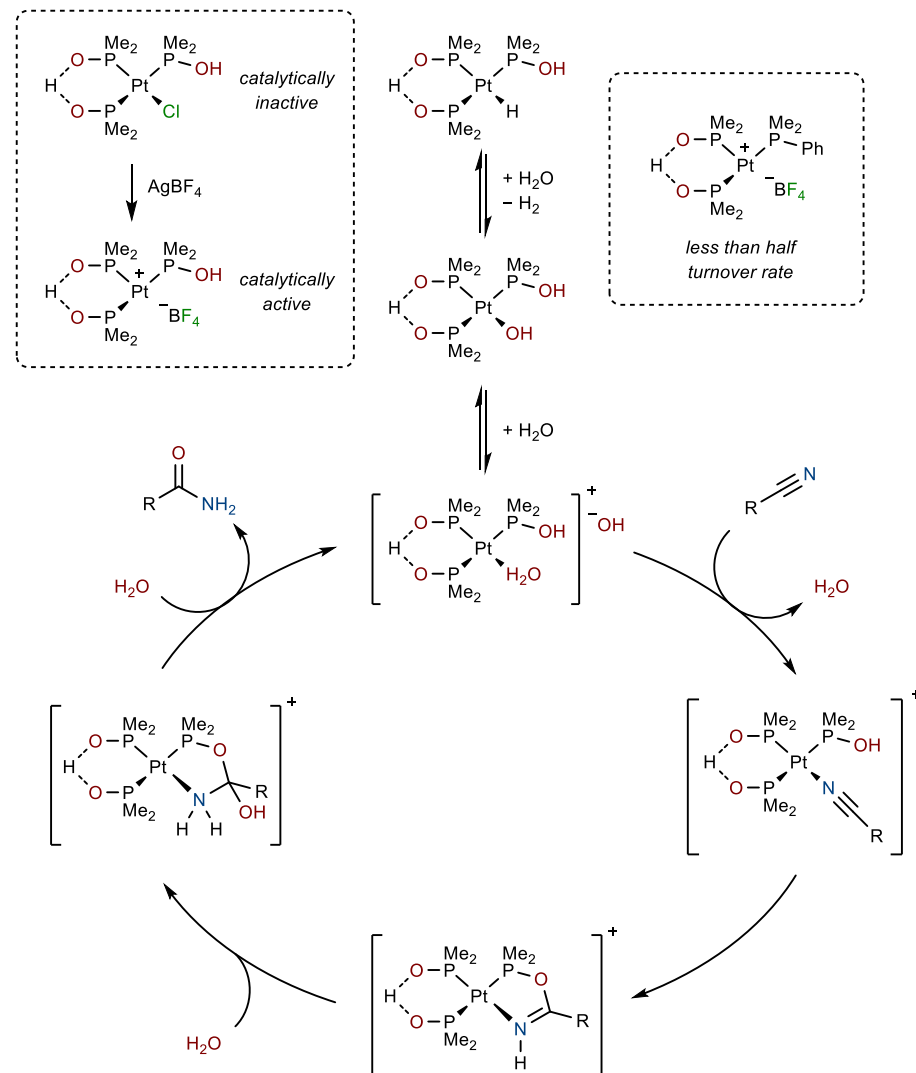
91% 380 TOF 93% 1485 TOF 86% 518 TOF 91% 450 TOF



adiponitrile 97% 55 TOF 96% 173 TOF

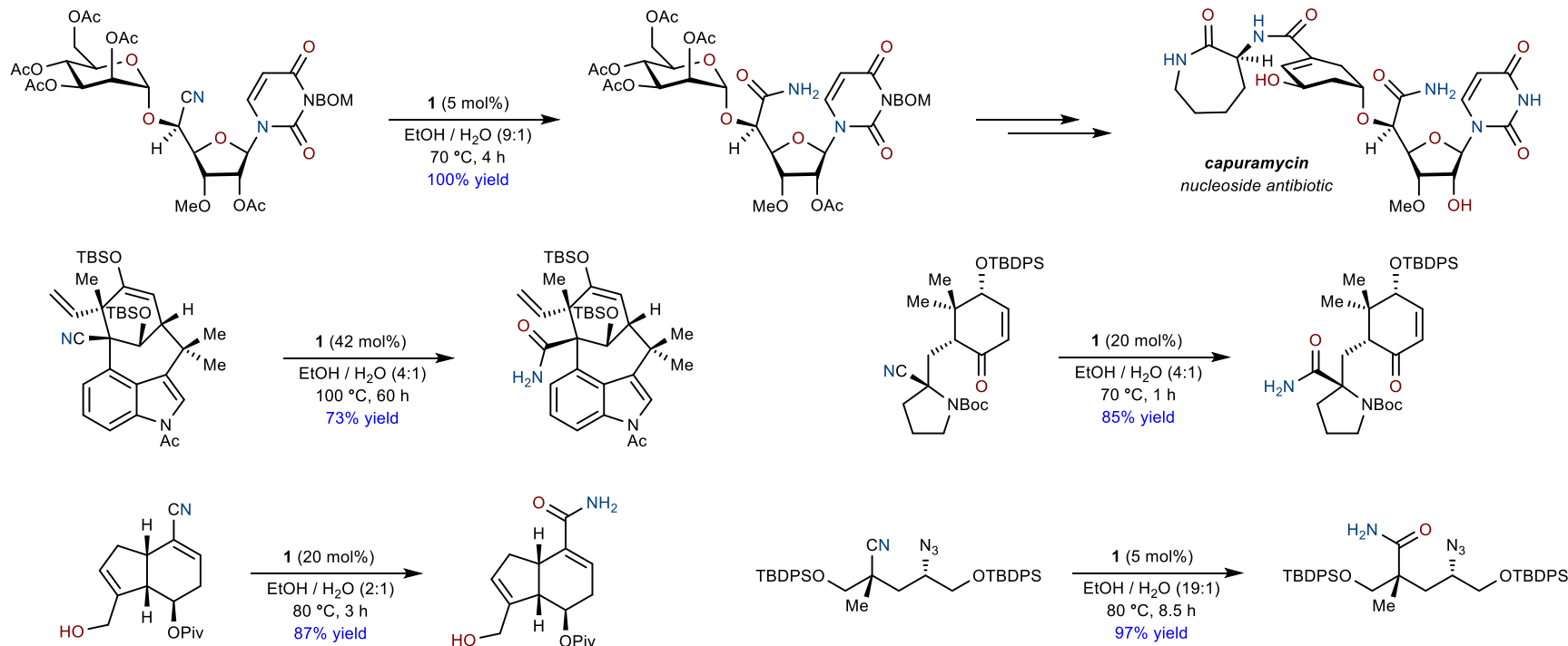


Proposed Mechanism



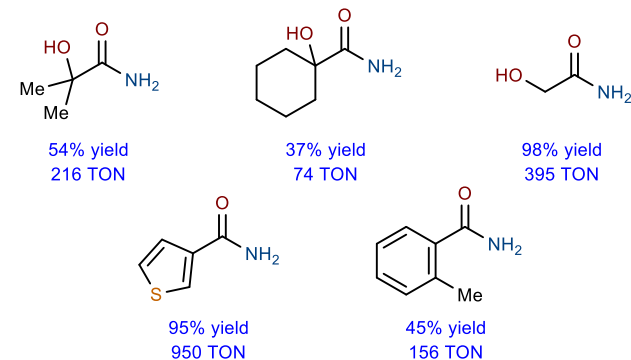
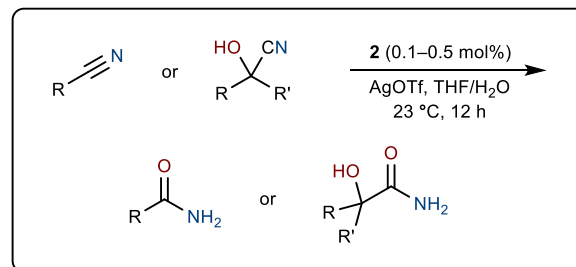
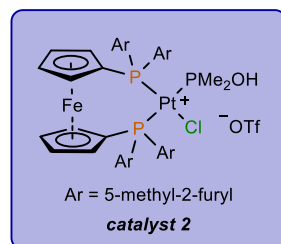
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Applications in Total Synthesis



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Modern Improvement



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