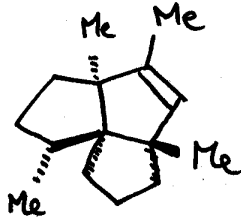


7. Gruppe Naturstoffsynthesen

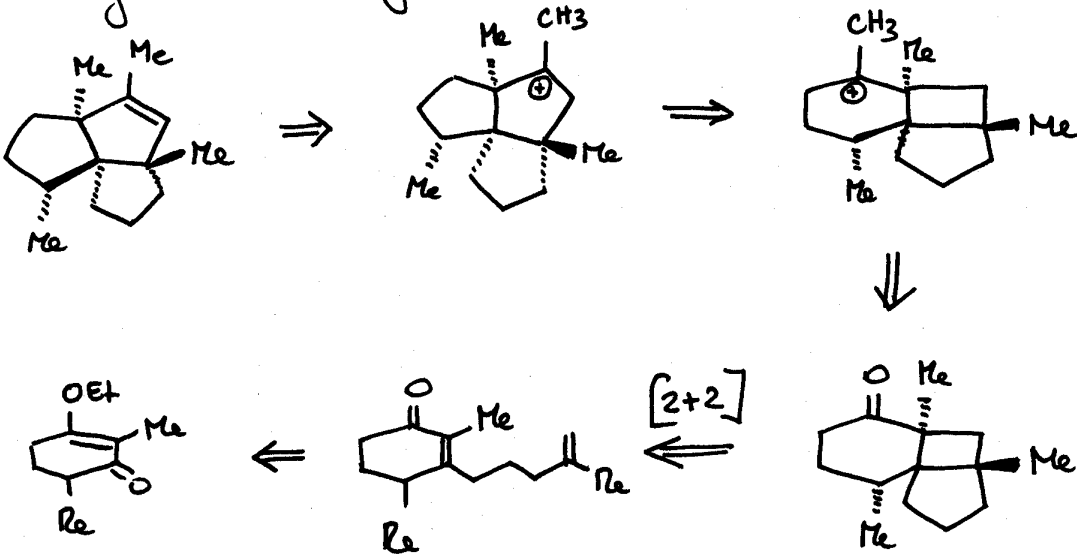
① Isocomen



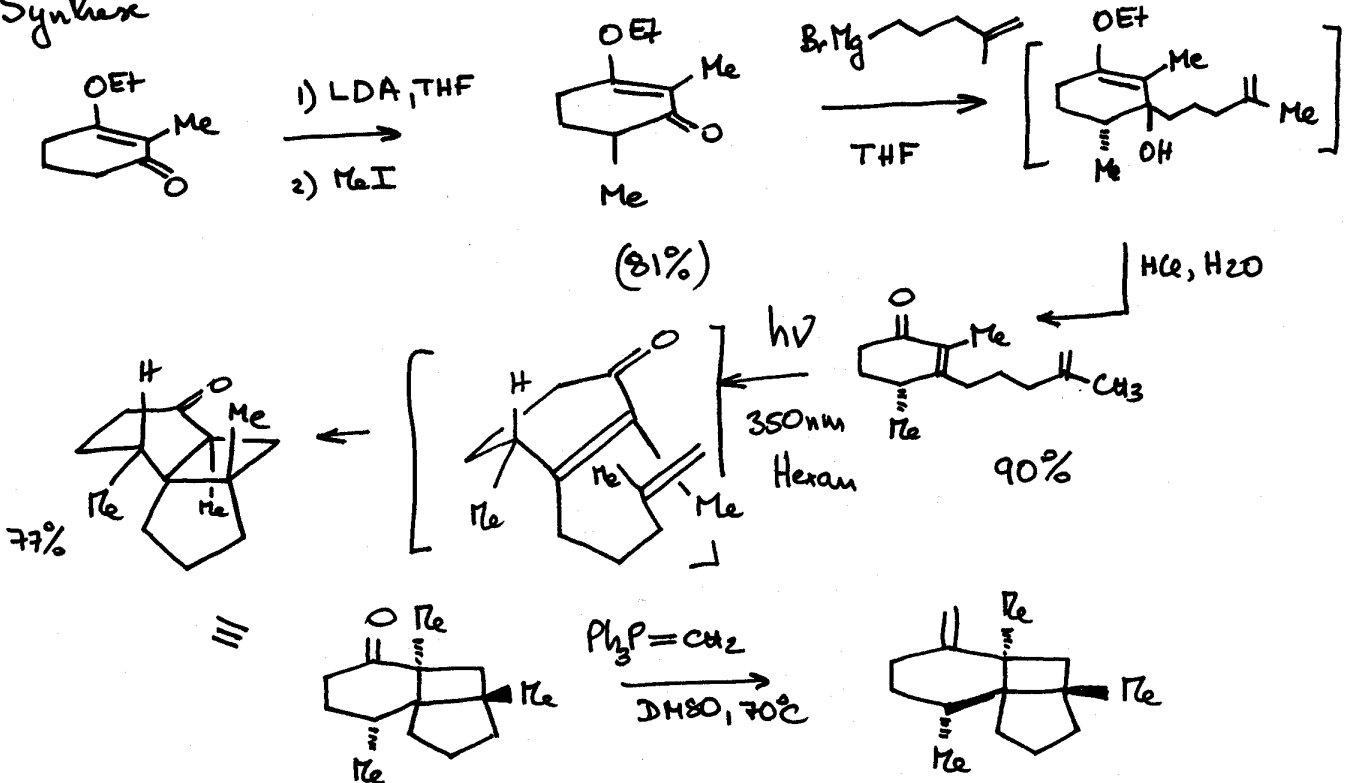
M.C. Pirrung (1979)

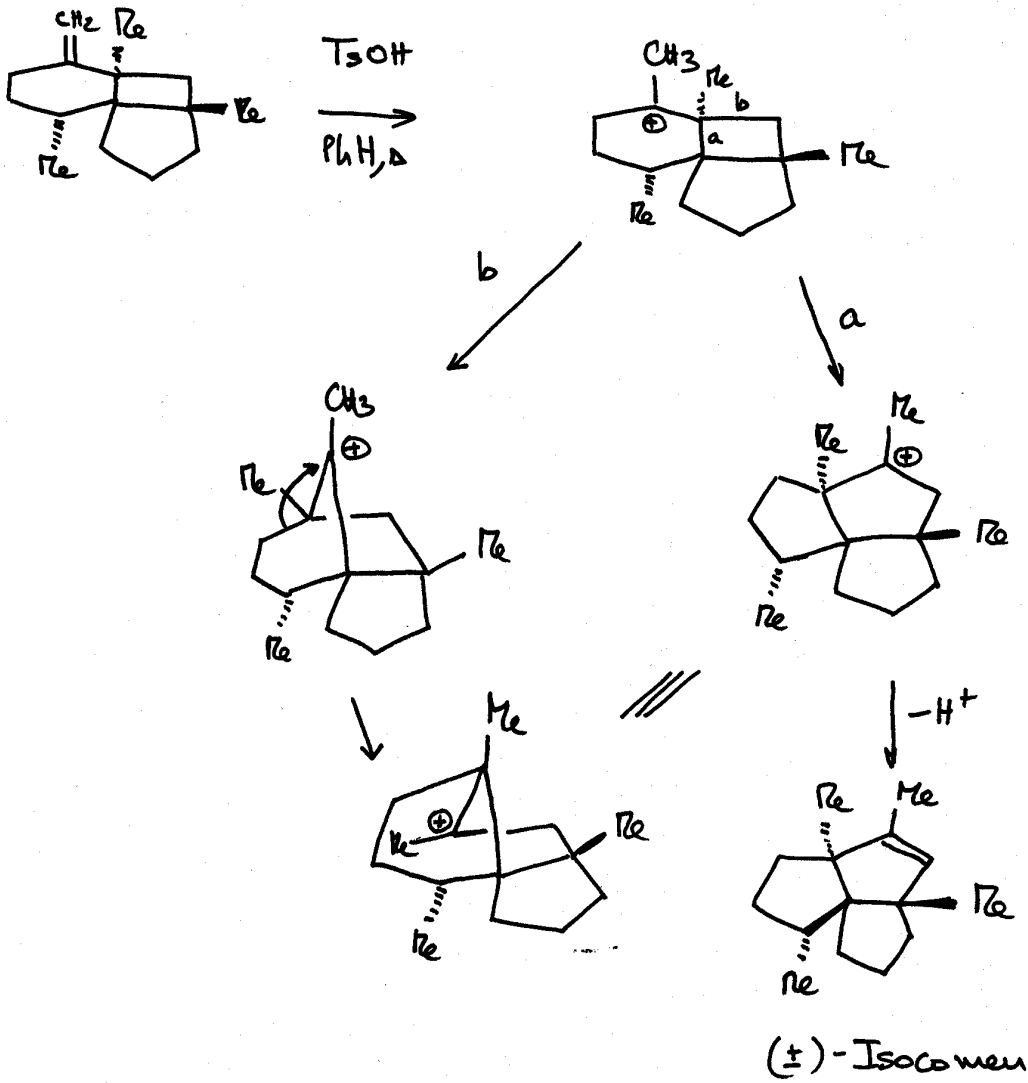
J. Am. Chem. Soc. 1979, 101, 7130  
 " " " " 1981, 103, 82

Retrosynthetische Analyse:

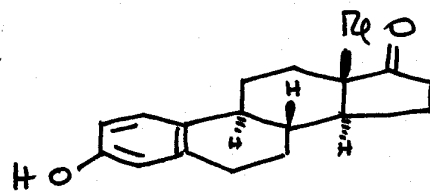


Synthese



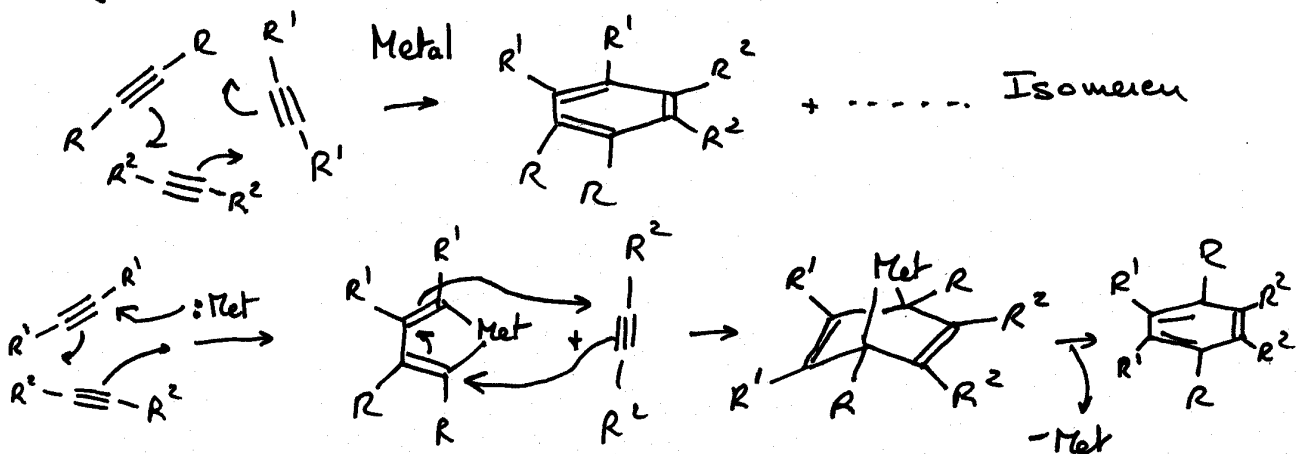


② Estron - Synthese



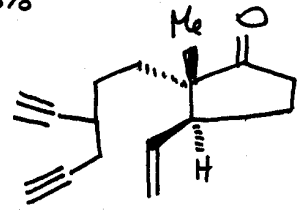
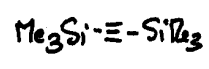
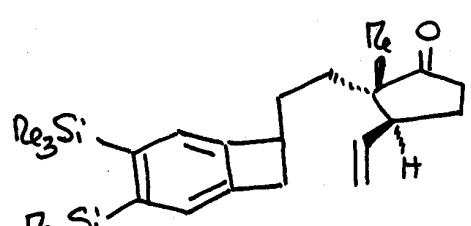
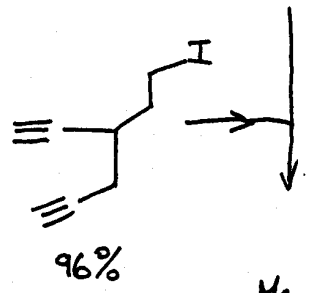
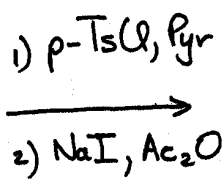
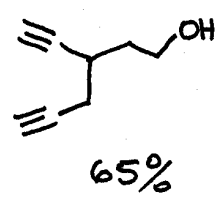
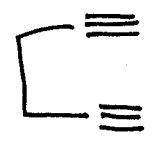
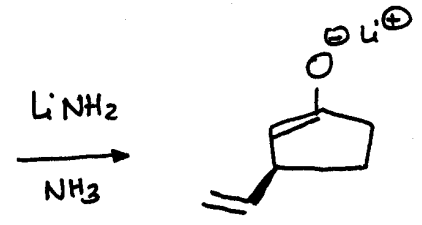
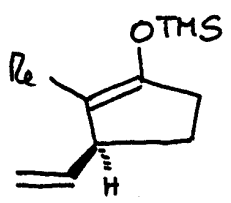
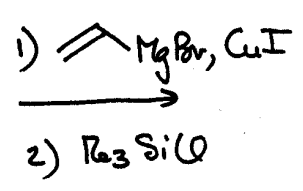
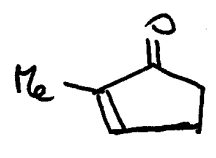
K.P.C. Vollhardt

Reppel - Synthese

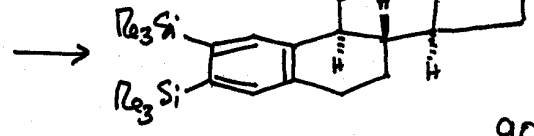
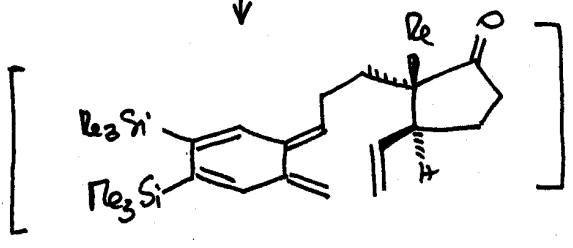




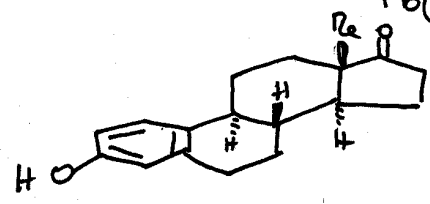
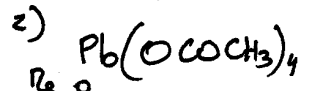
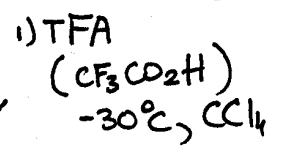
Synthesis



Decan,  $\updownarrow$



90%



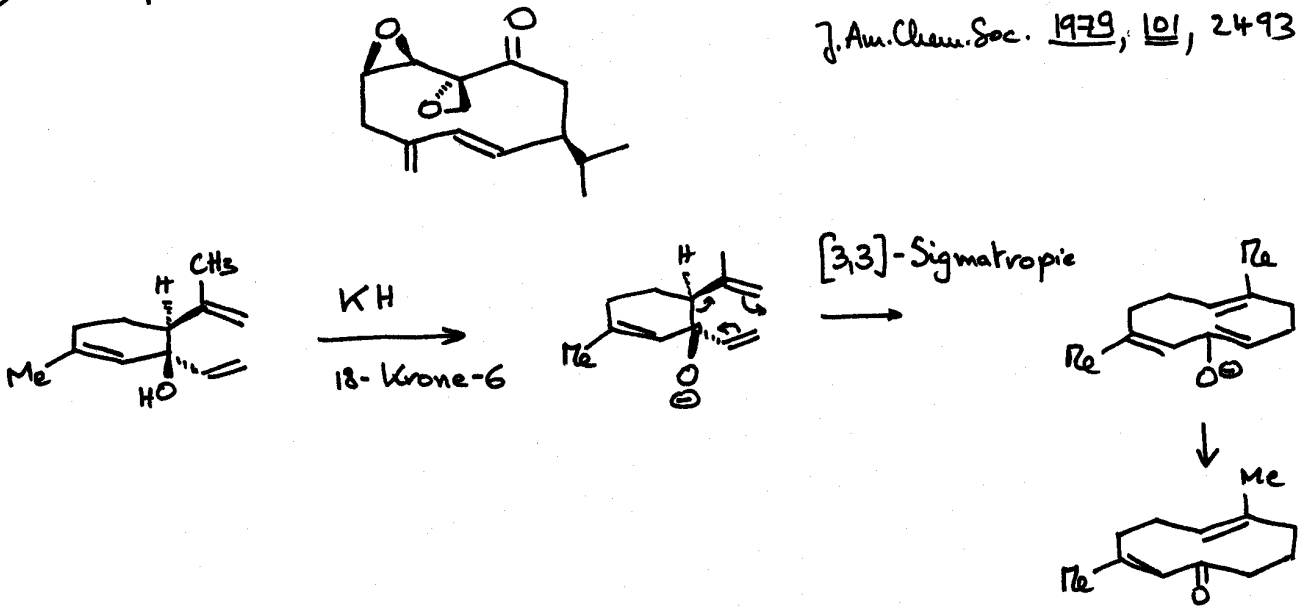
Estrone

③ Periplanon B

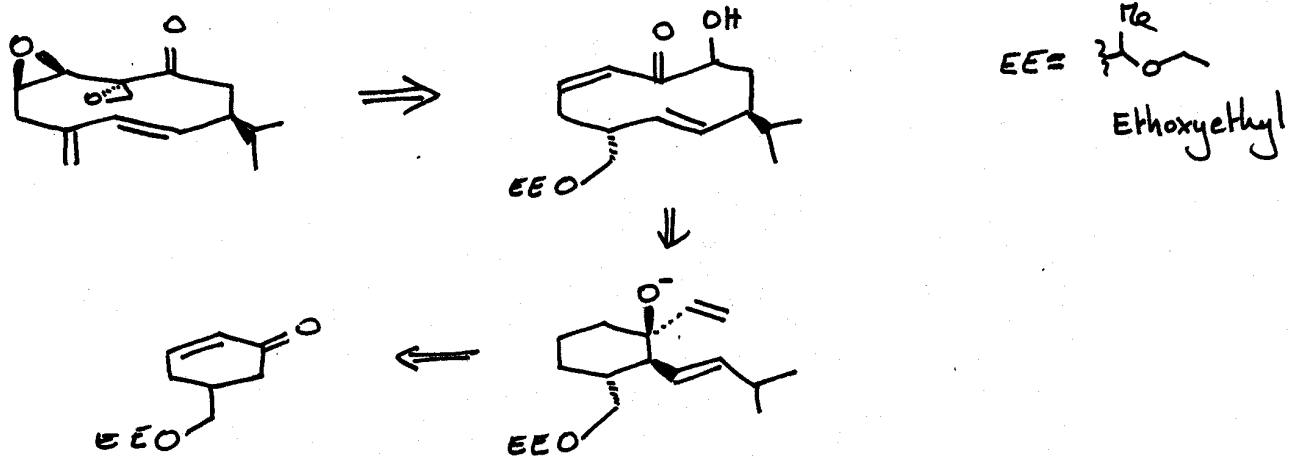
W.C. Still

⑤

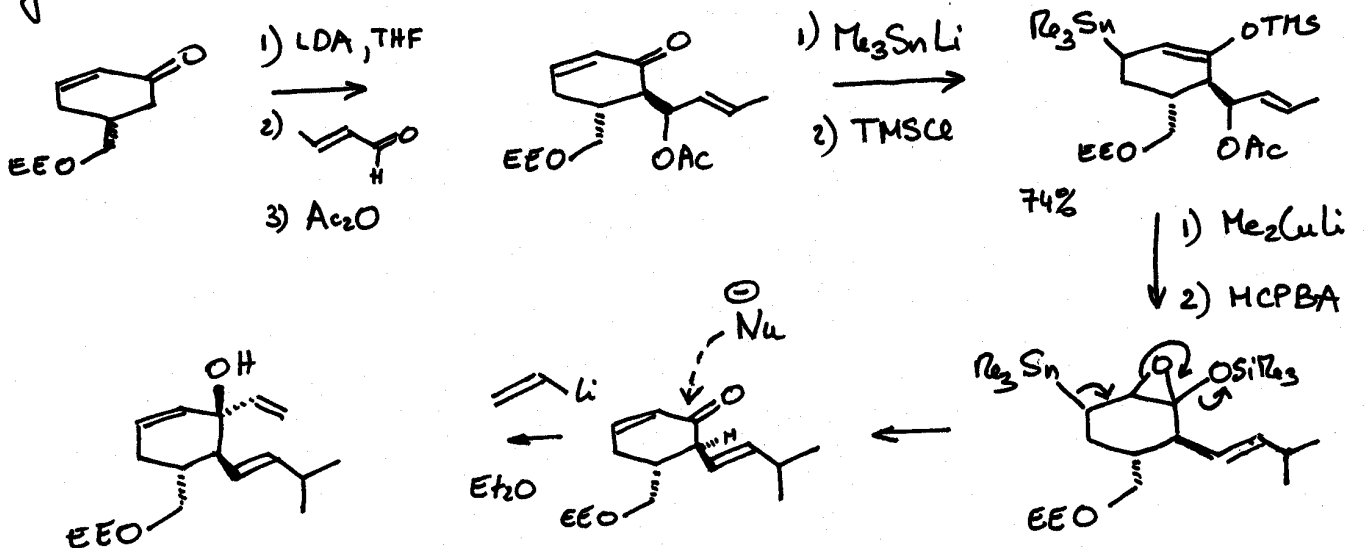
J. Am. Chem. Soc. 1979, 101, 2493

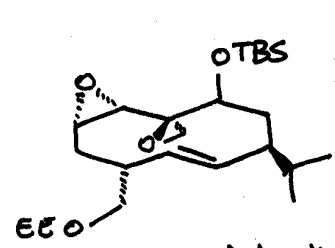
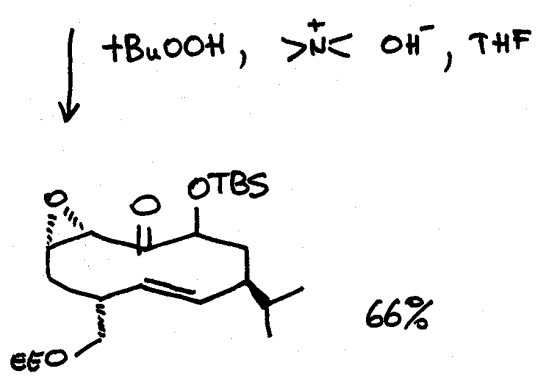
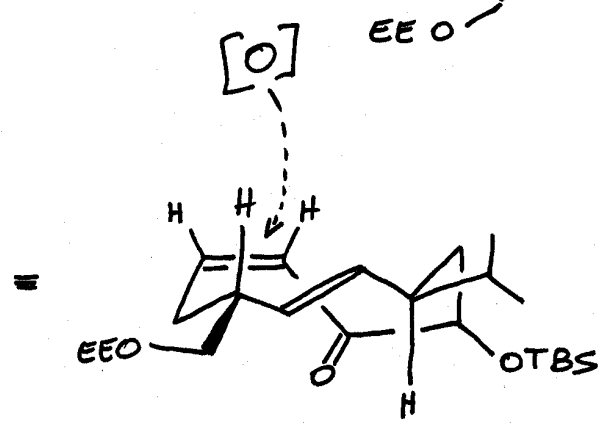
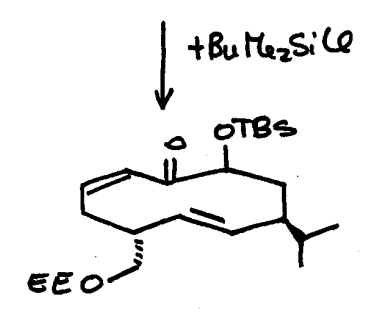
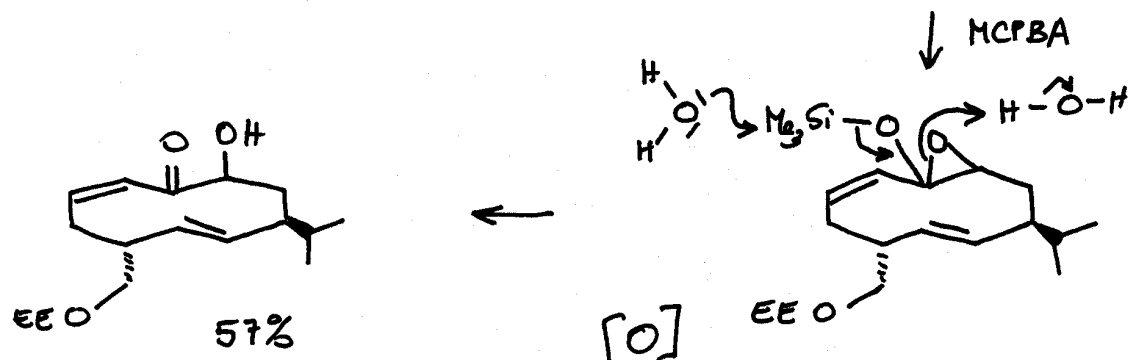
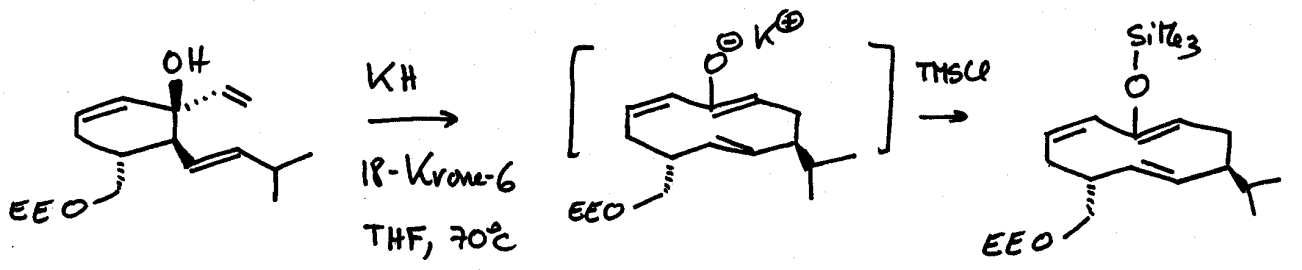


Retrosynthese

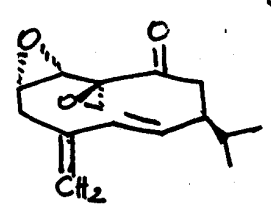


Synthese





- 1) AcOH - H<sub>2</sub>O
- 2) o-NO<sub>2</sub>C<sub>6</sub>H<sub>4</sub>SeCN, Bu<sub>3</sub>P, THF, 0°C
- 3) H<sub>2</sub>O<sub>2</sub>, THF, 25°C
- 4) Bu<sub>4</sub>NF
- 5) CrO<sub>3</sub> • 2 Pyr, CH<sub>2</sub>Cl<sub>2</sub>



Peiphanon B

