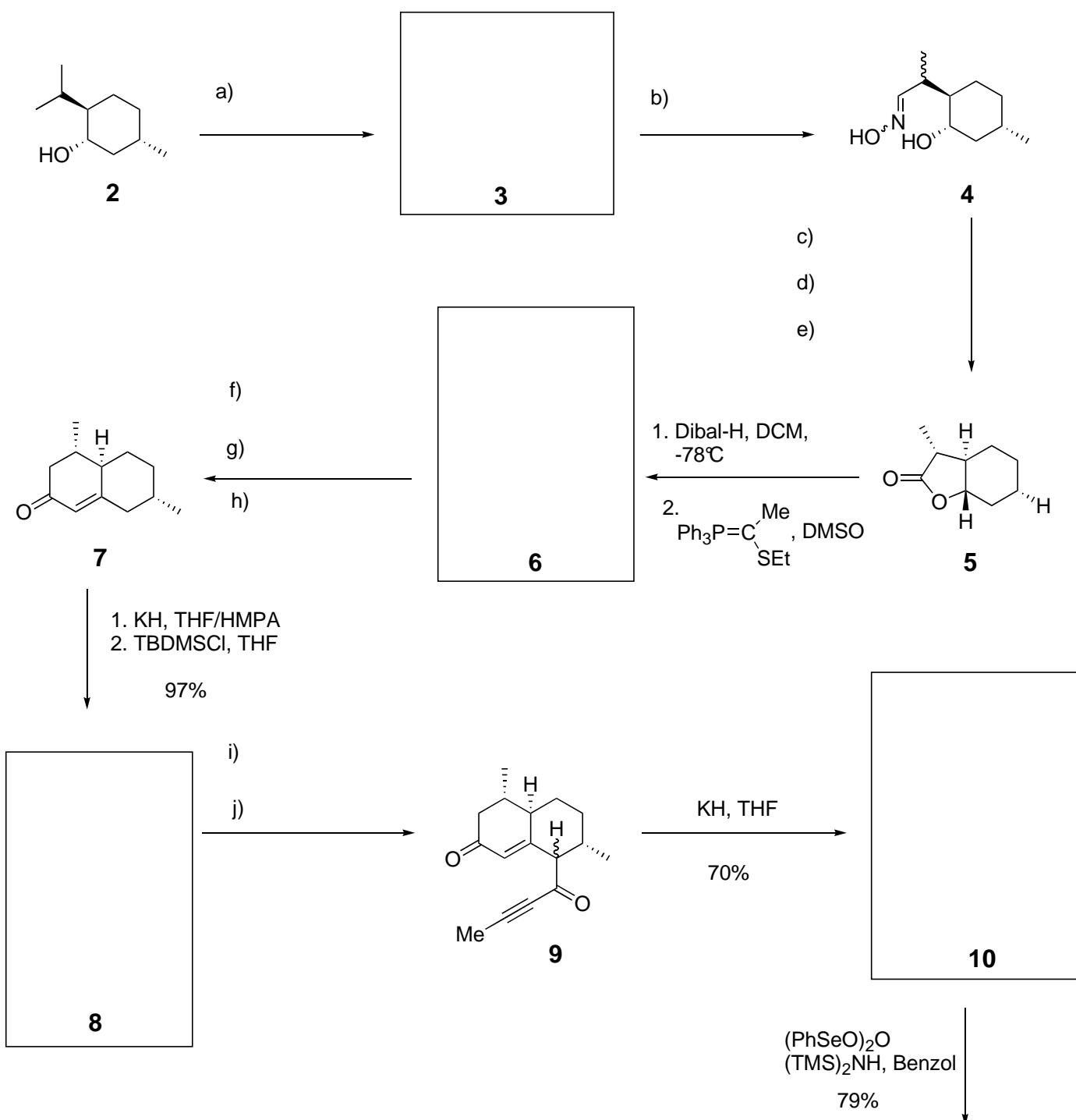
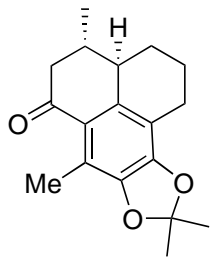


E. J. Corey, Philip Carpino

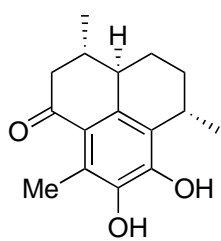
J. Am. Chem. Soc. **1989**, *111*, No. 14, 5472-5474





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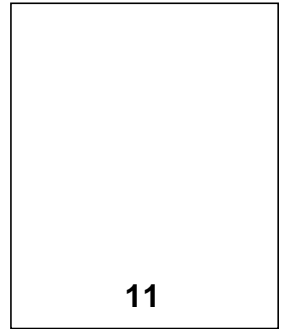
k)



12

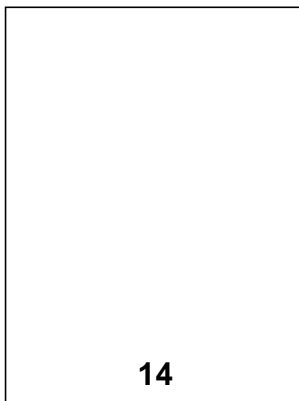
1. kat. HClO₄,
HOAc/H₂O
2. aq. NaHSO₃,
EtOH

71%



11

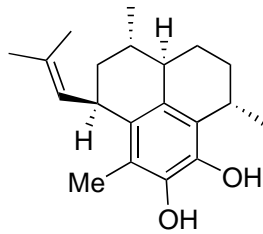
1. Me₂S=CH₂, THF
2. BF₃·Et₂O, DCM
-30°C -> 23°C
76%



14

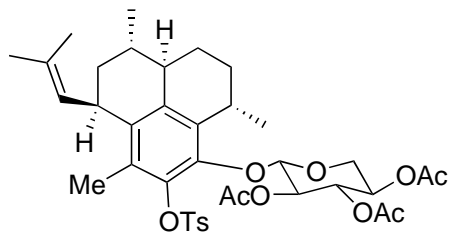
l)

m)



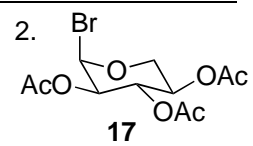
15

n)

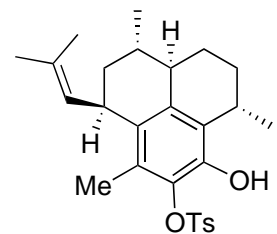


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1. NaH, CH₃CN



17



16

o)

p)



1