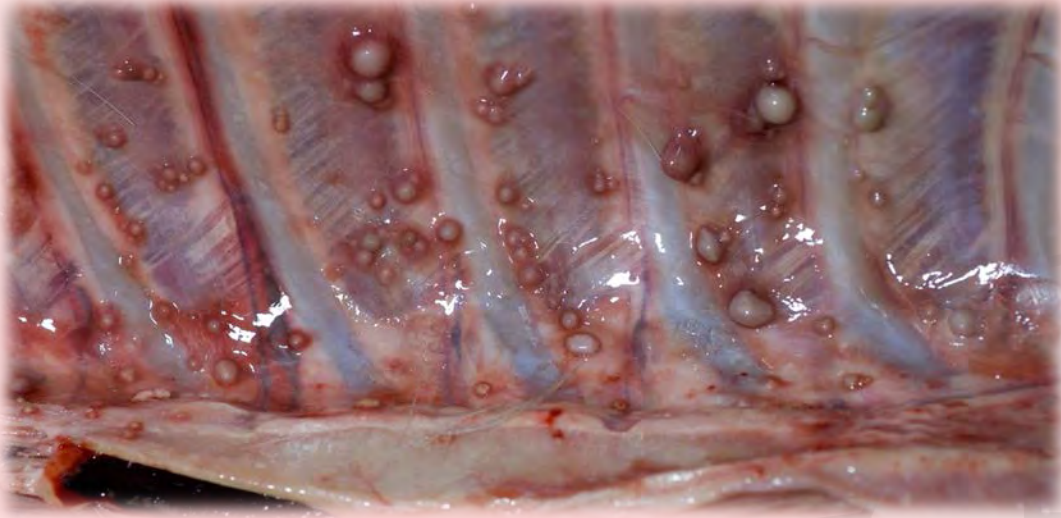


Total Synthesis of Caribenol A.

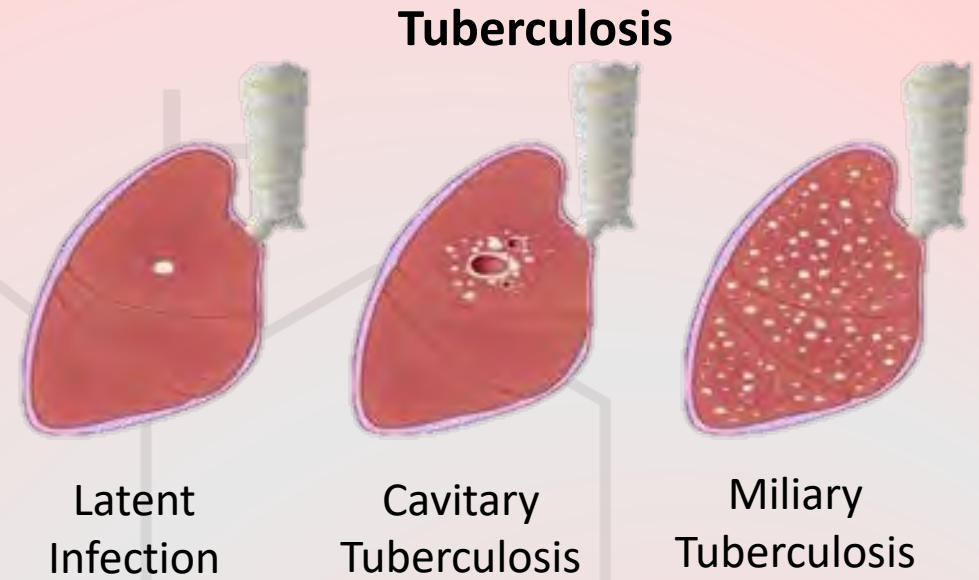
Hong-Dong and Dirk Trauner

Thomas Oleskey

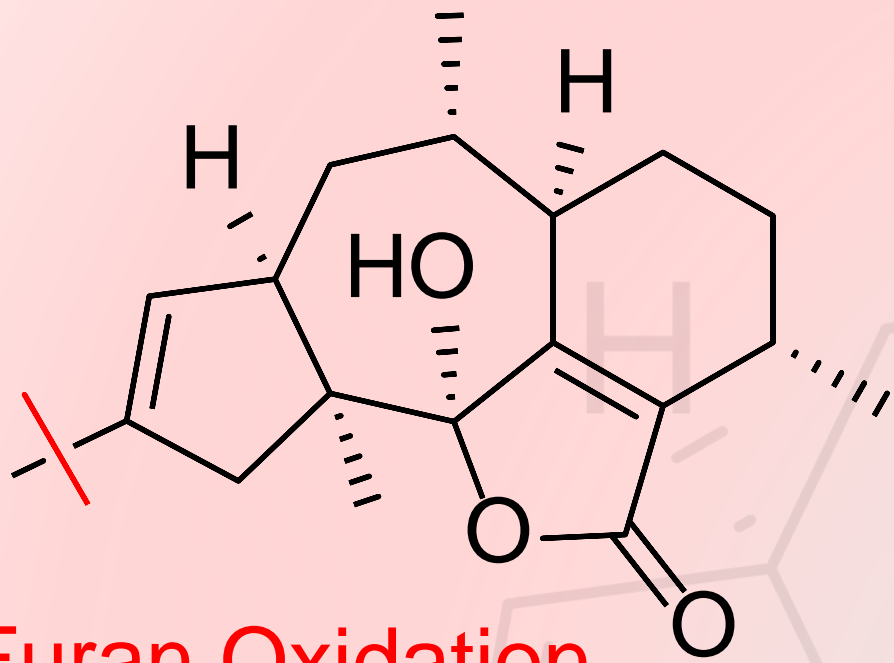


**Bovine
Tuberculosis in
whitetail deer
courtesy of Mi
DNR.**

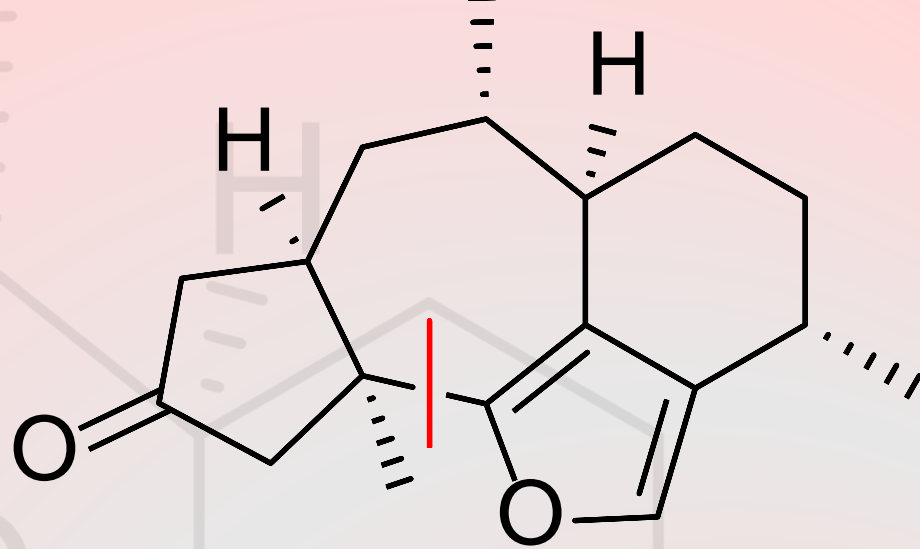
**Bovine Tuberculosis CAN
jump the species barrier
and infect humans.**



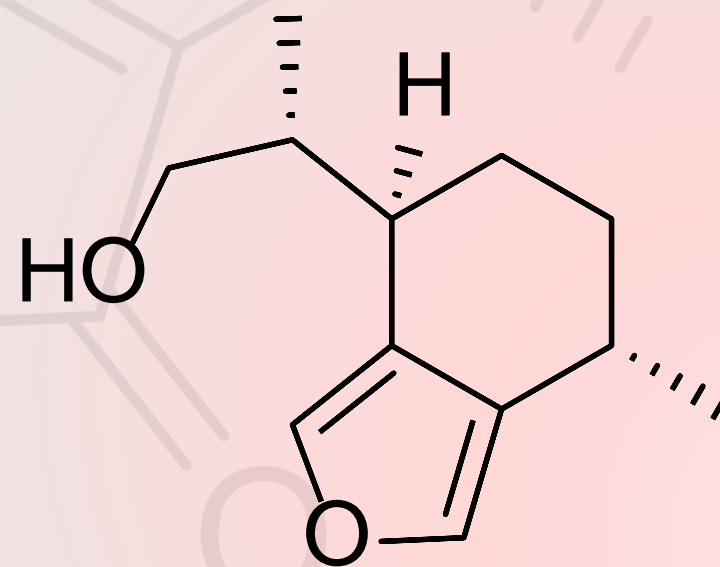
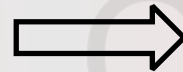
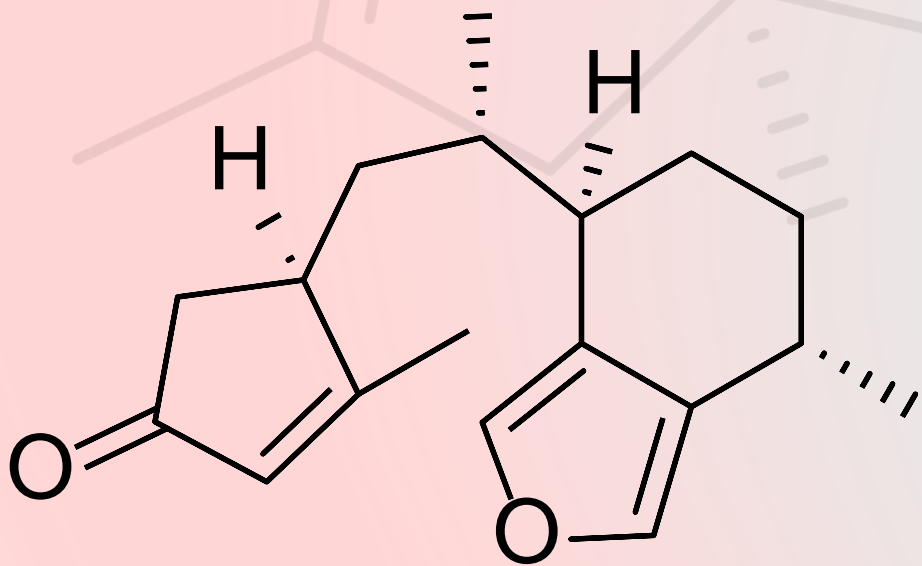
***Caribenol has
shown anti-
Tuberculosis
activity***

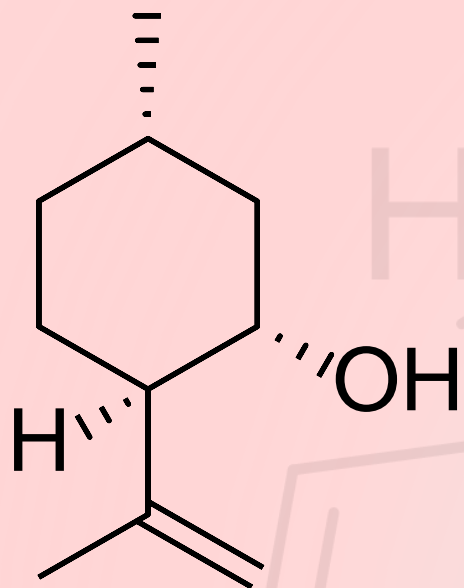


Furan Oxidation



Friedel-Crafts

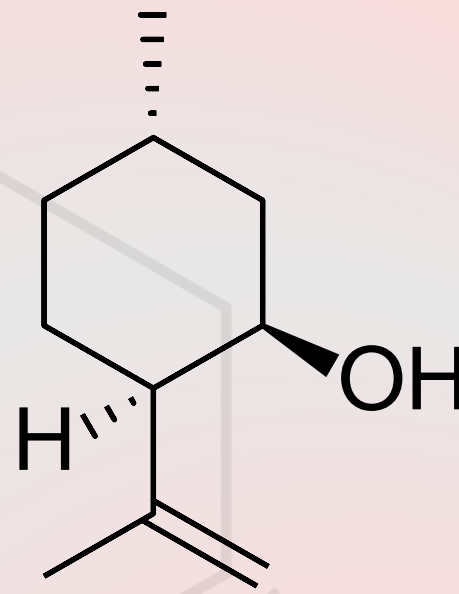




Jones Oxidation

Then L Selectride

70% Yield

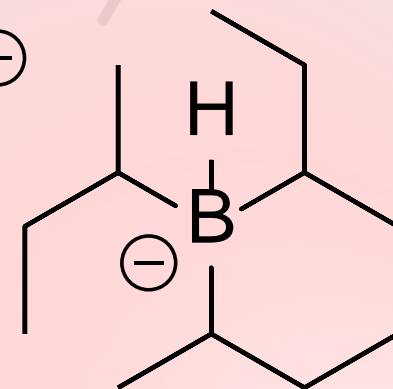


CrO_3

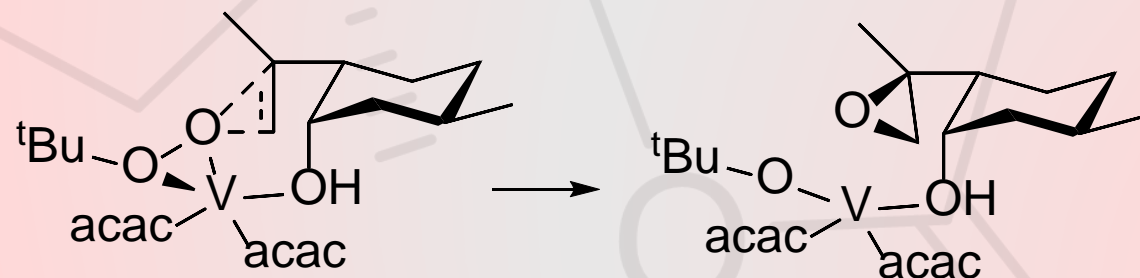
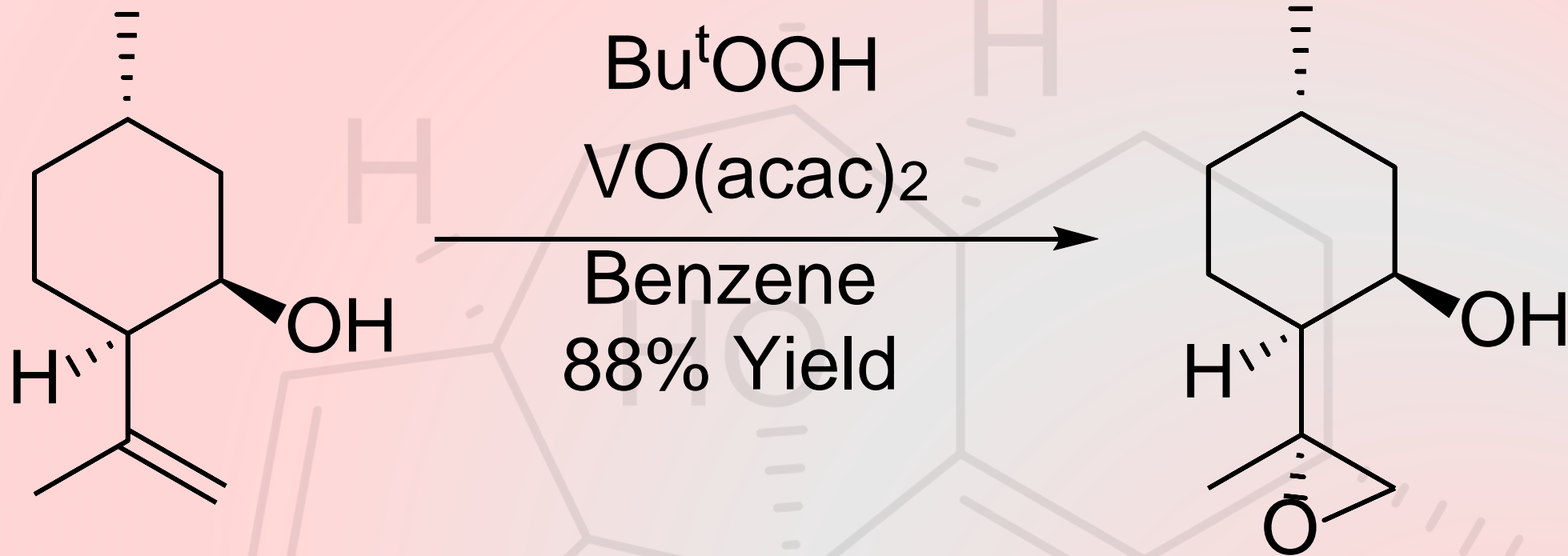
H_2SO_4

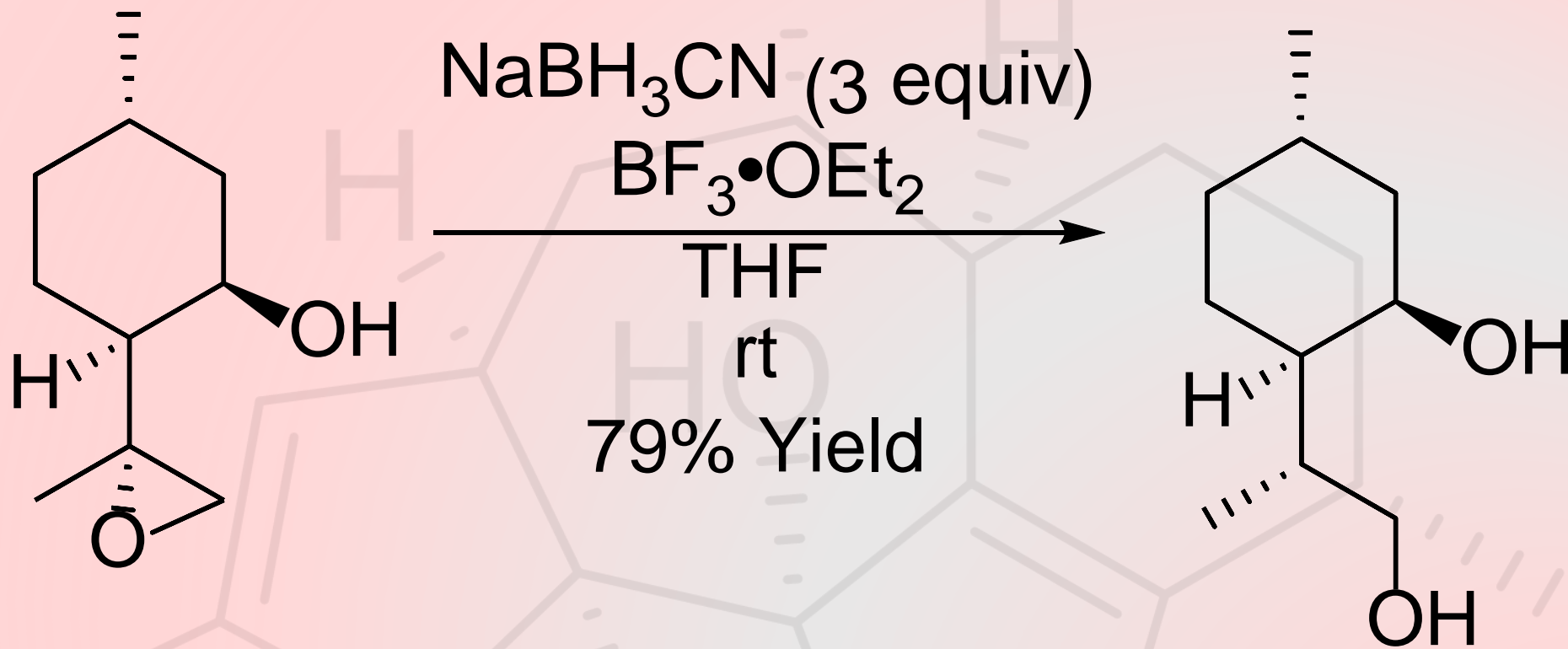
Jones Reaction

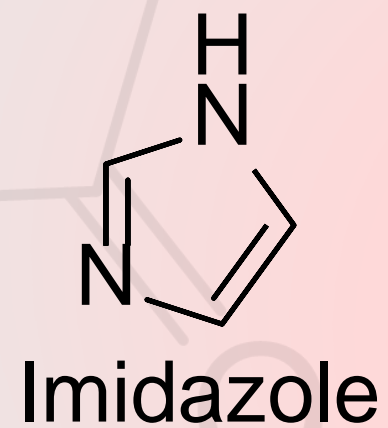
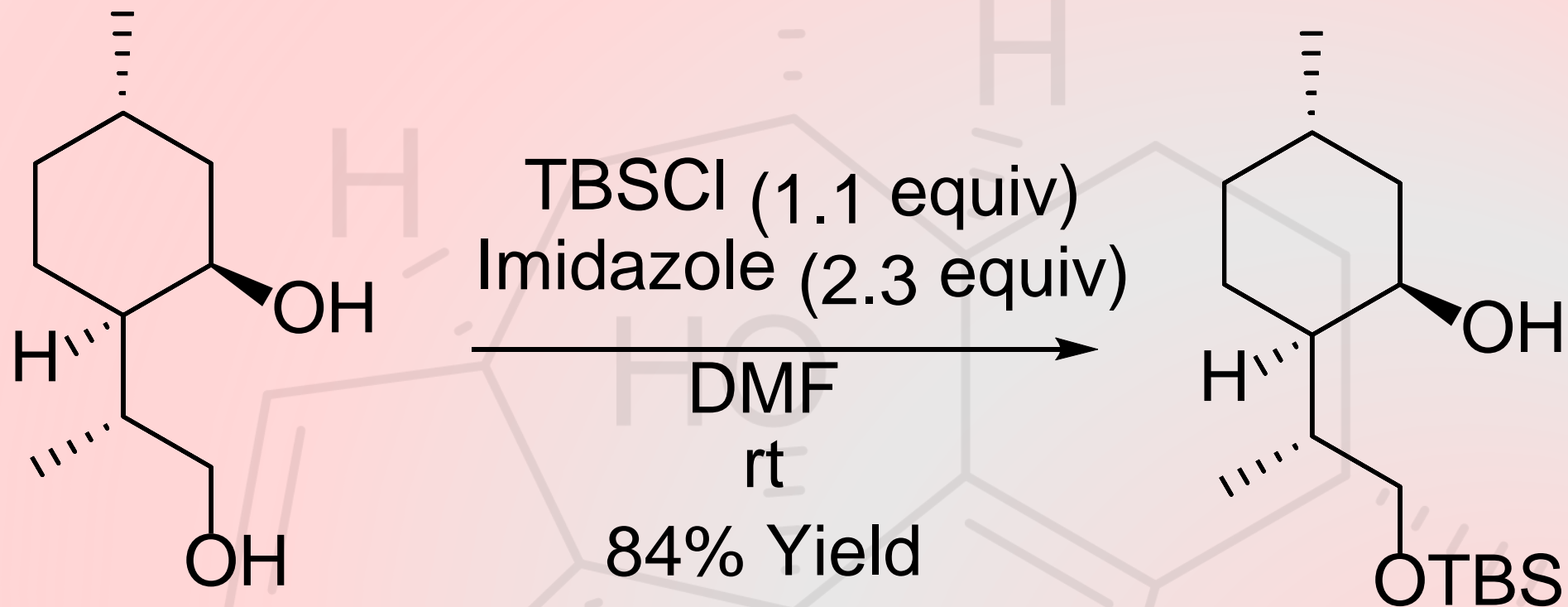
Li^+

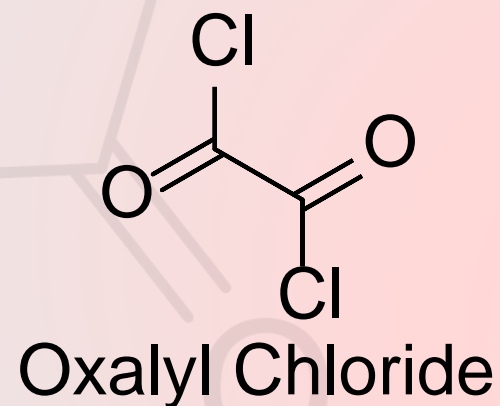
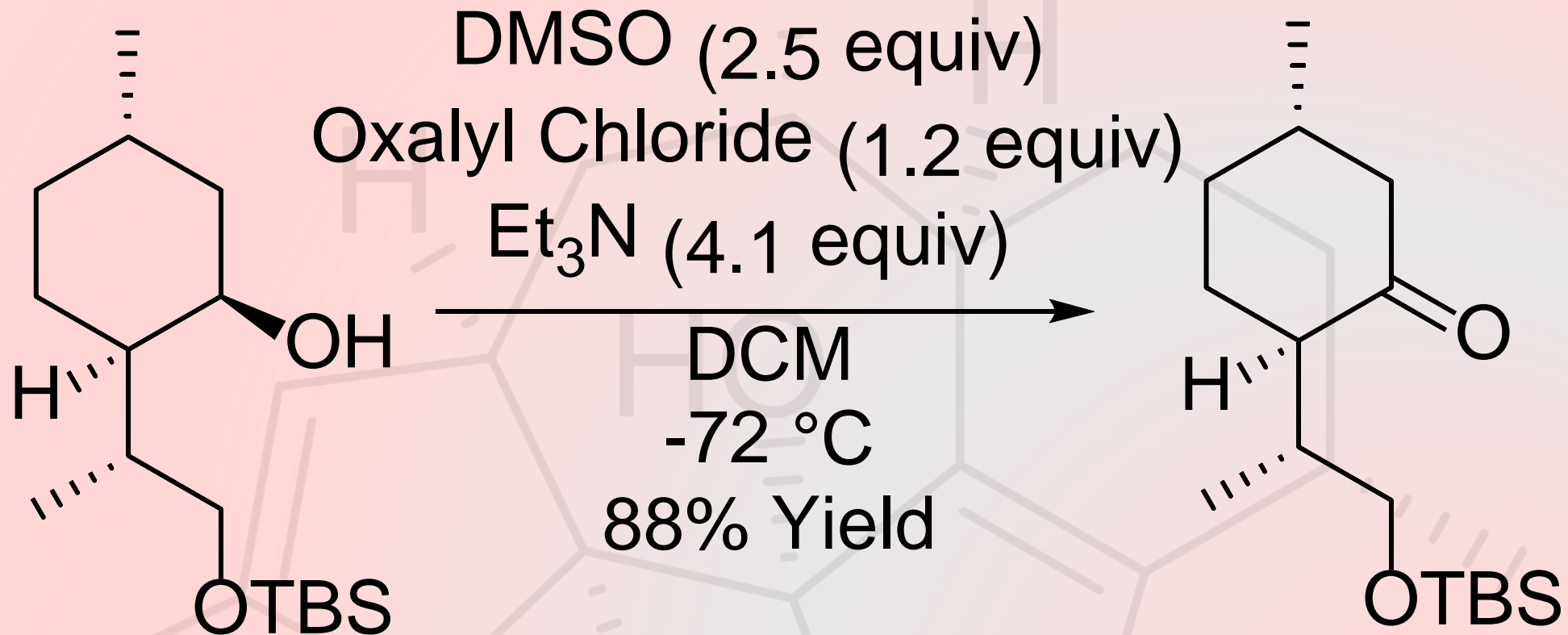


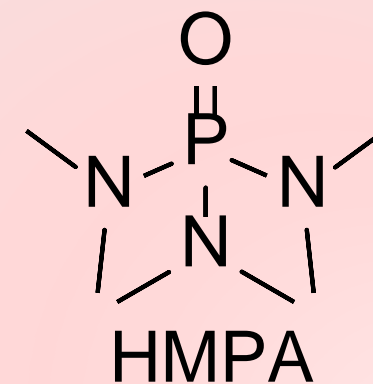
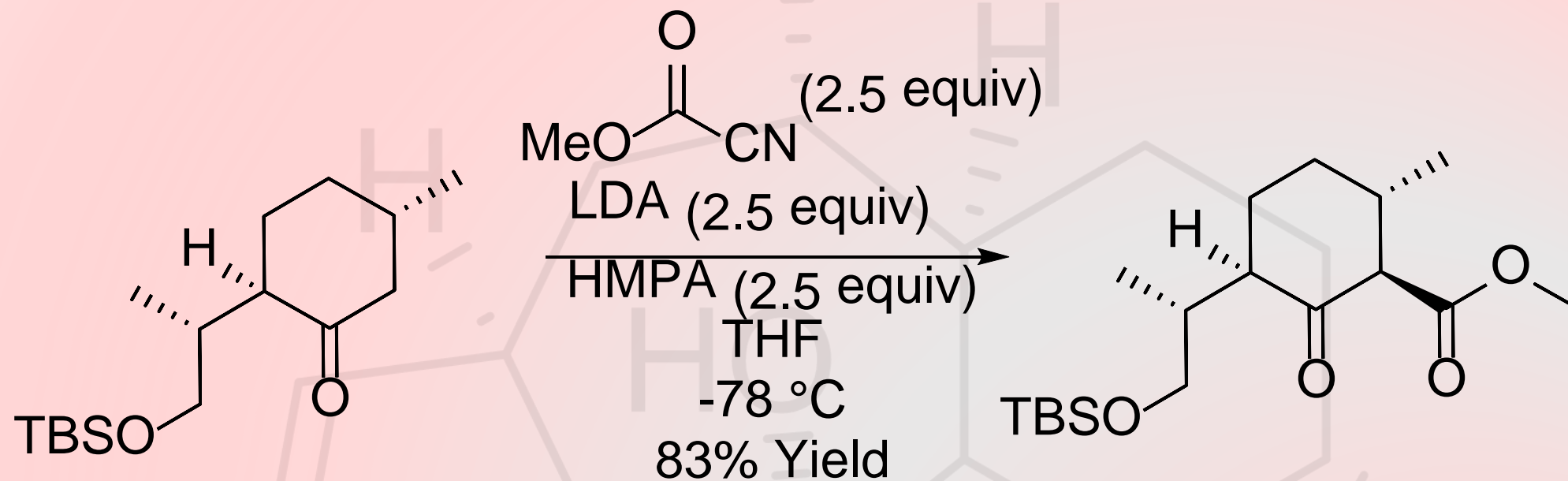
L-Selectride

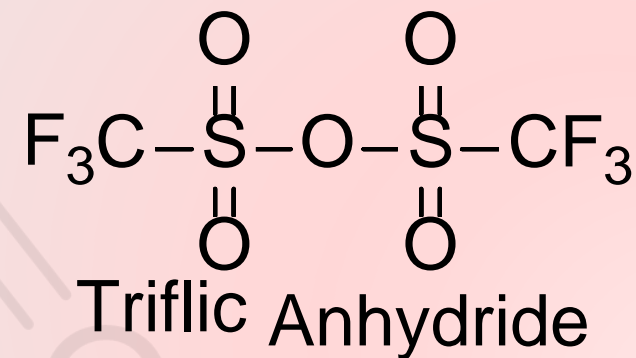
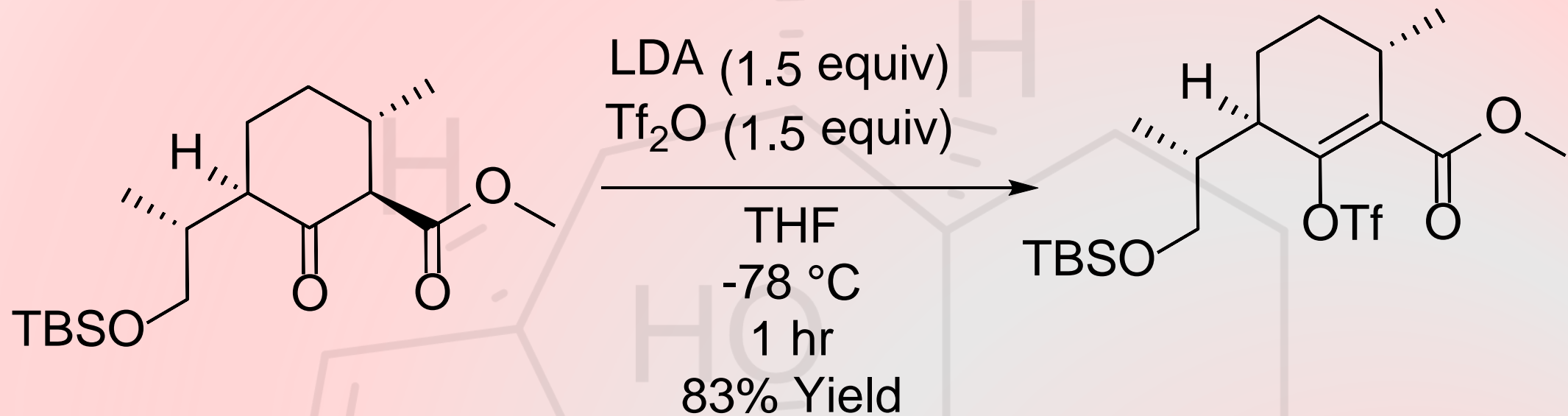


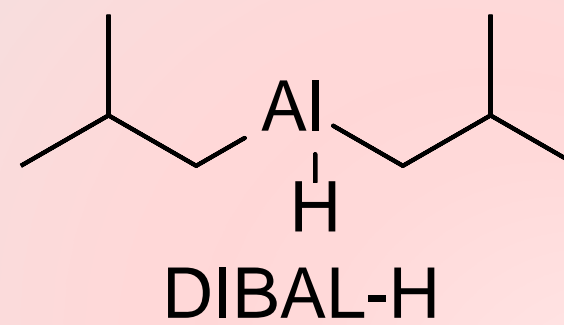
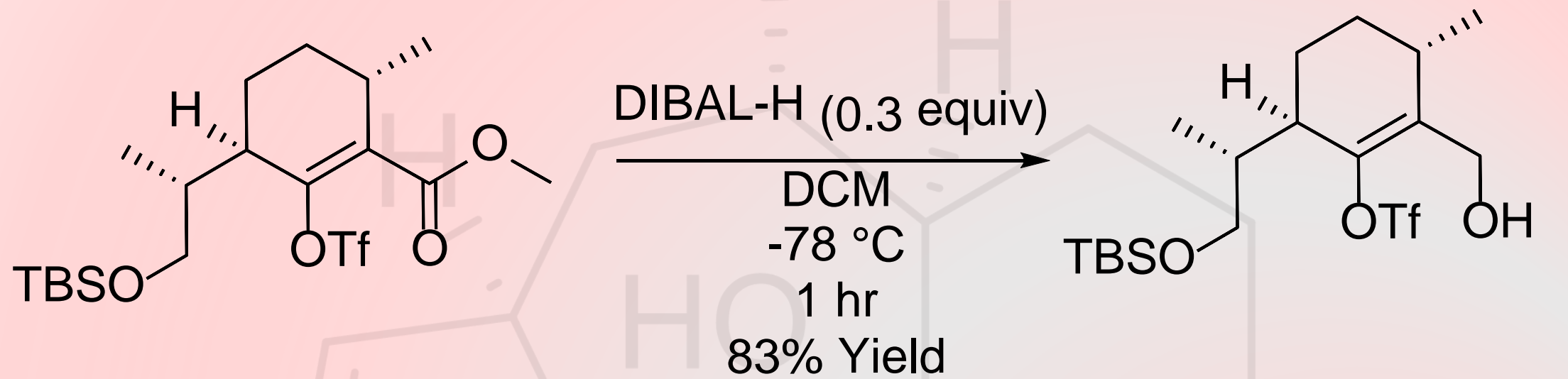


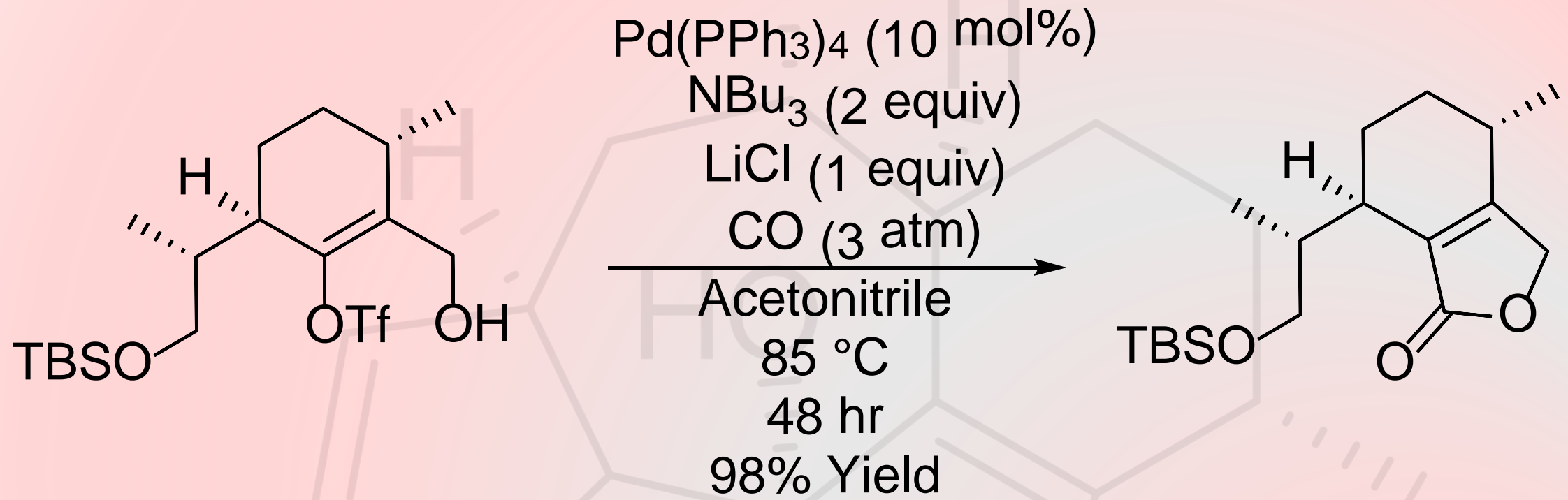


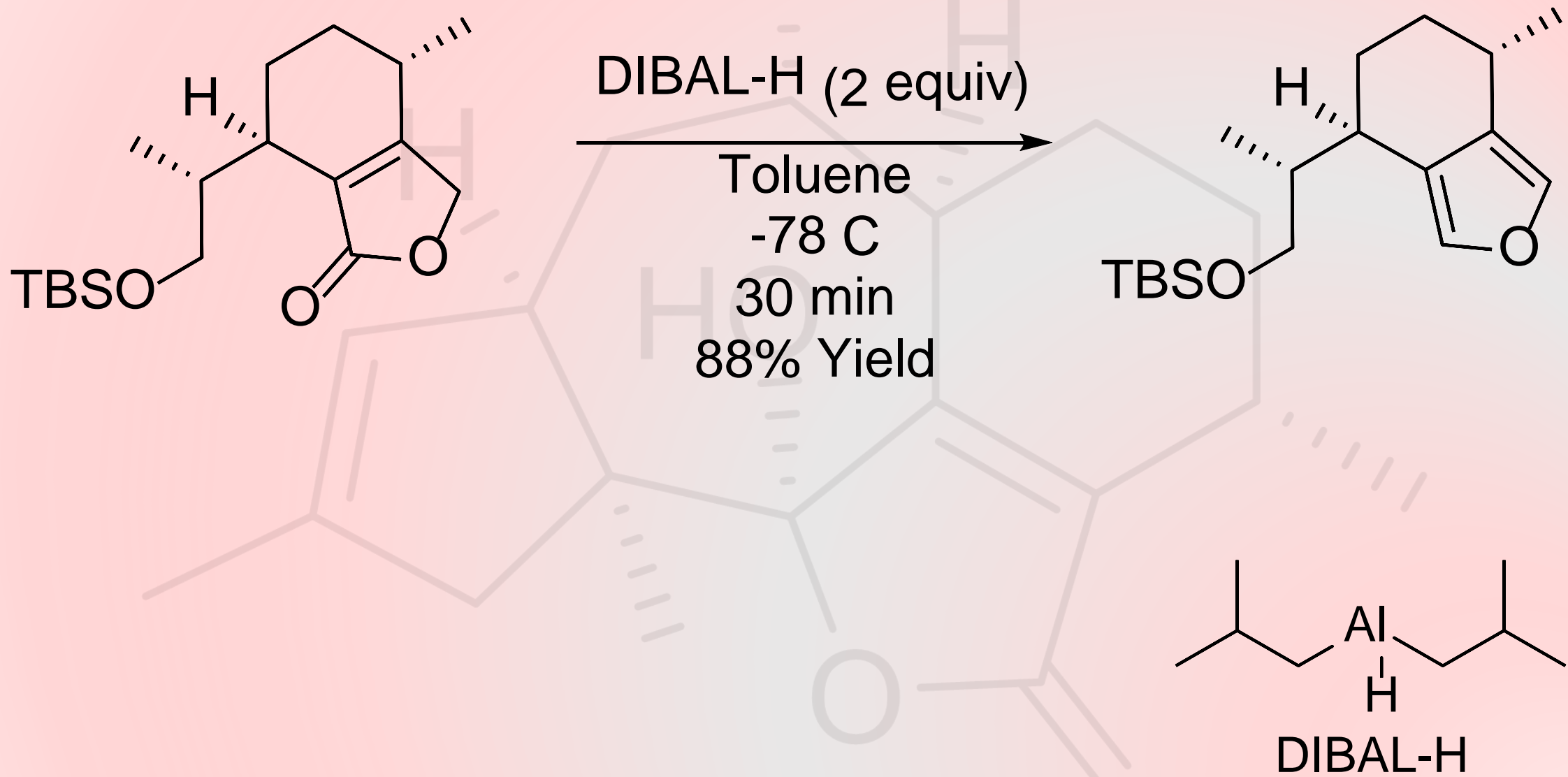


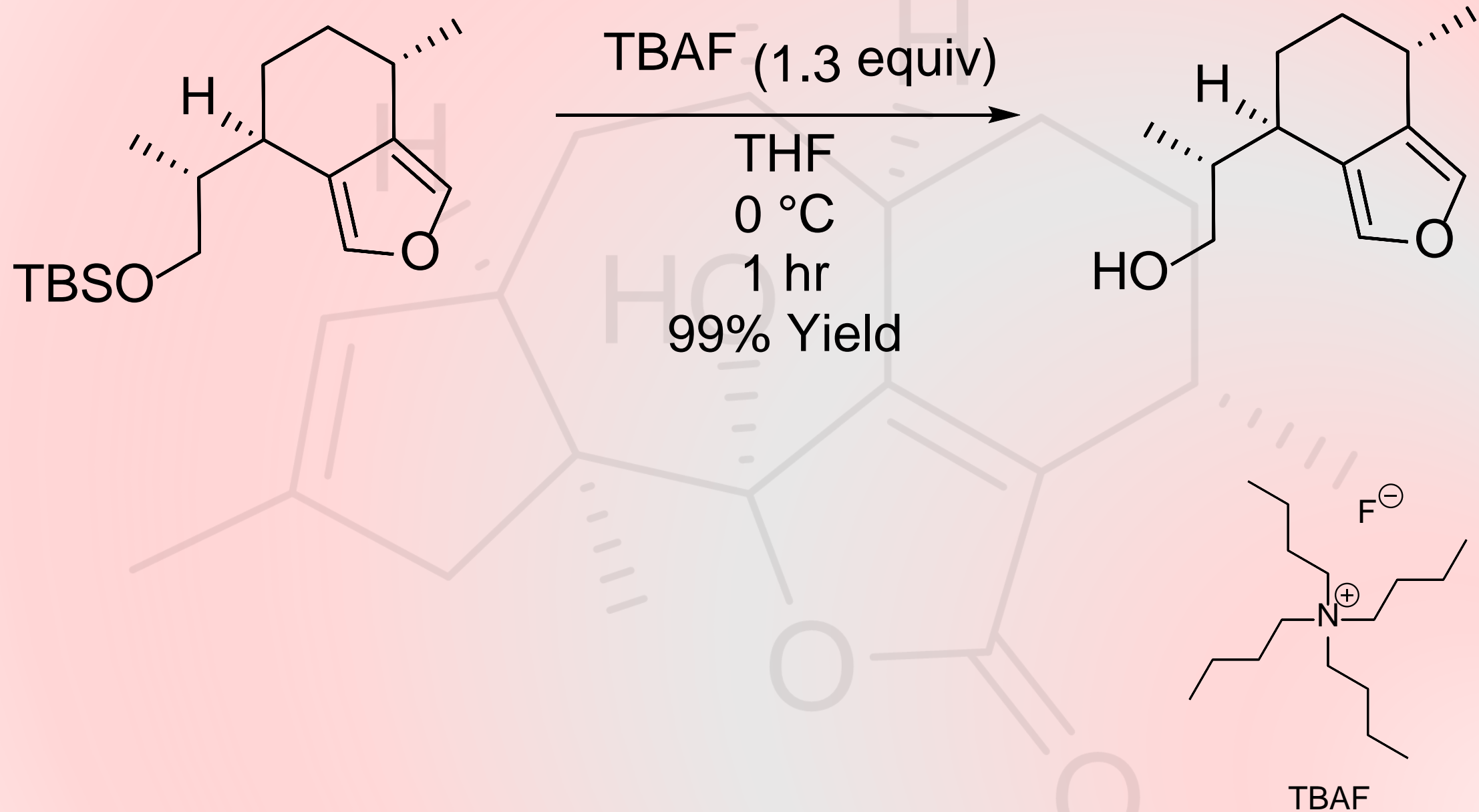


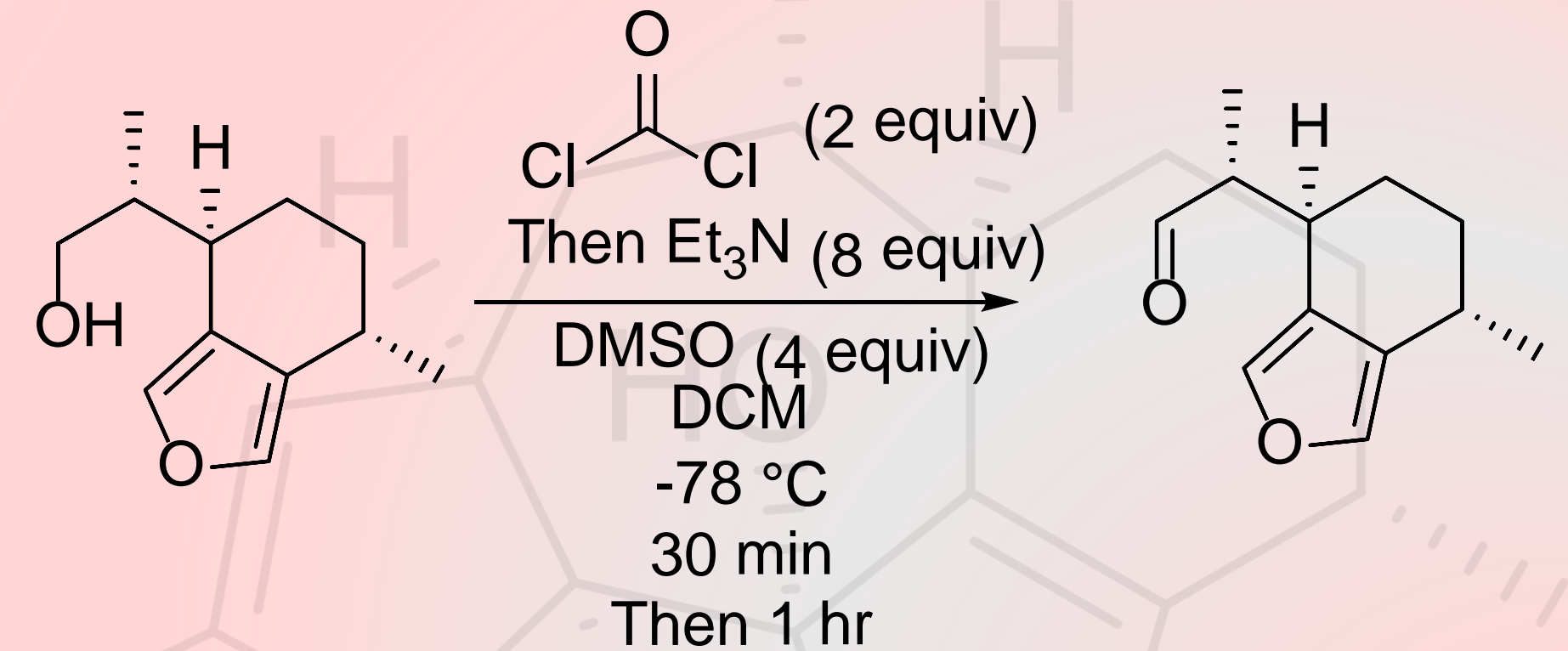


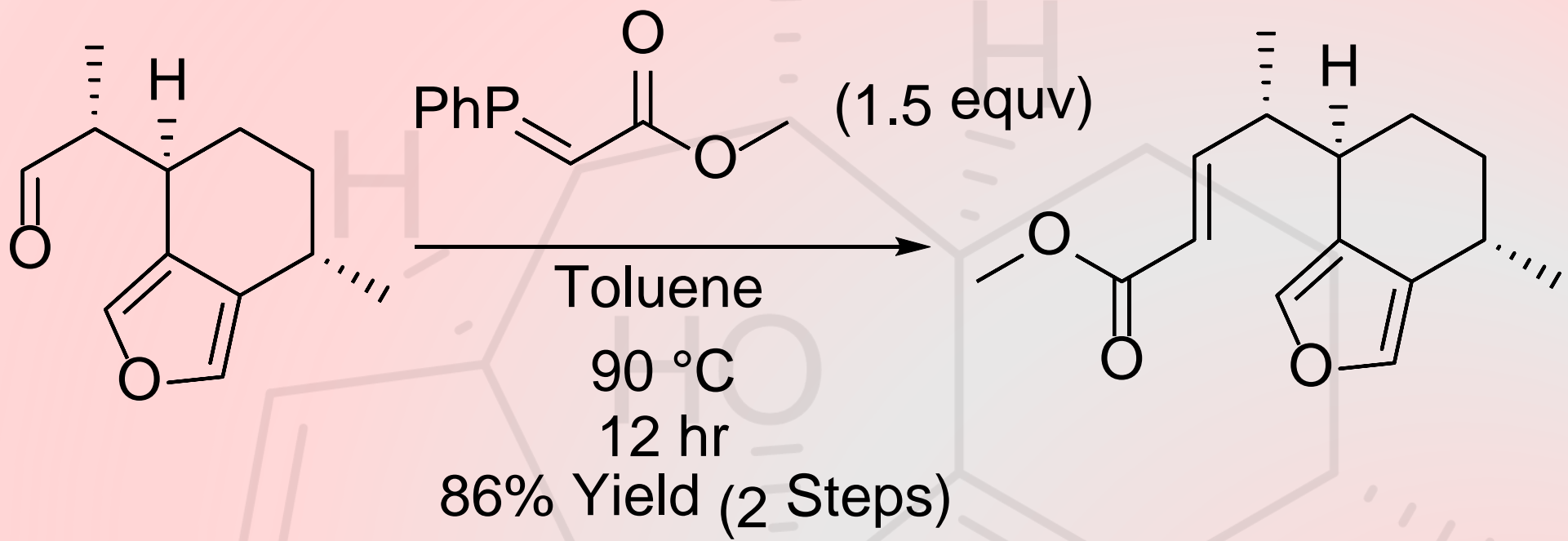


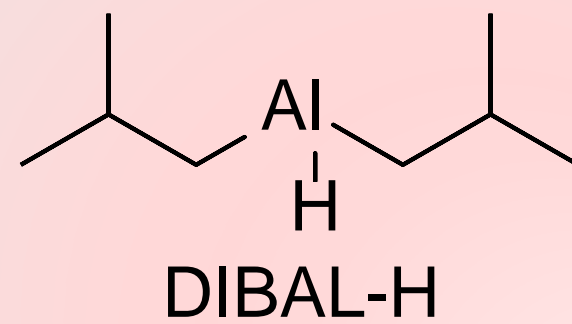
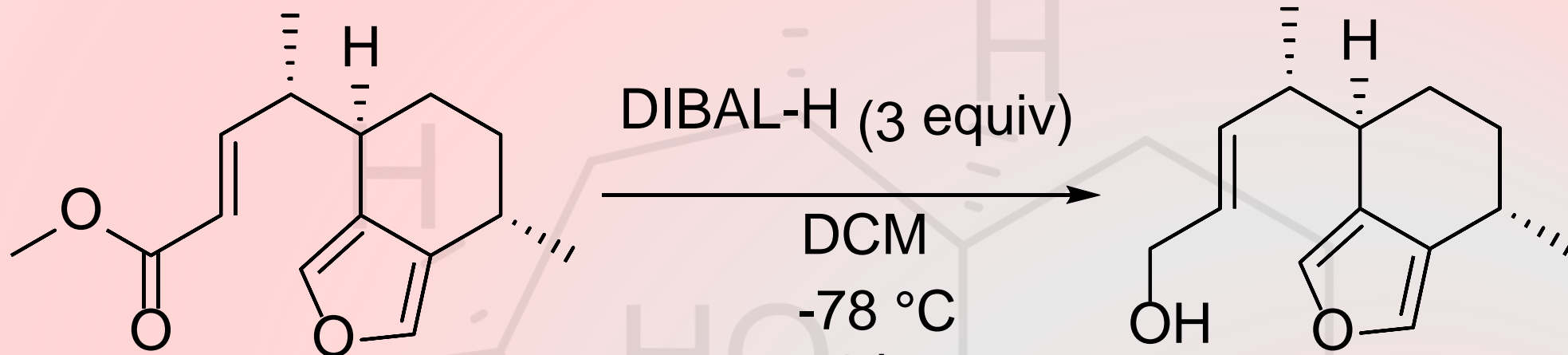












IPNBSH (1 equiv)
DEAD (1 equiv)
Ph₃P (1 equiv)



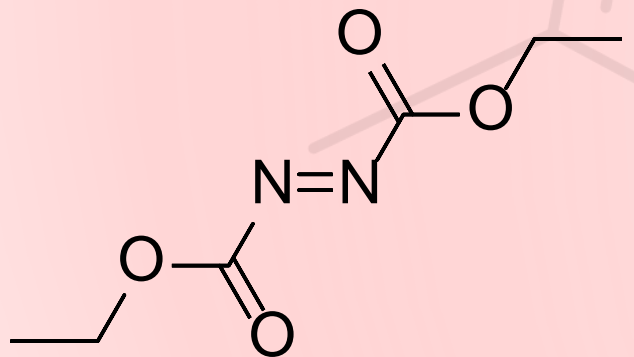
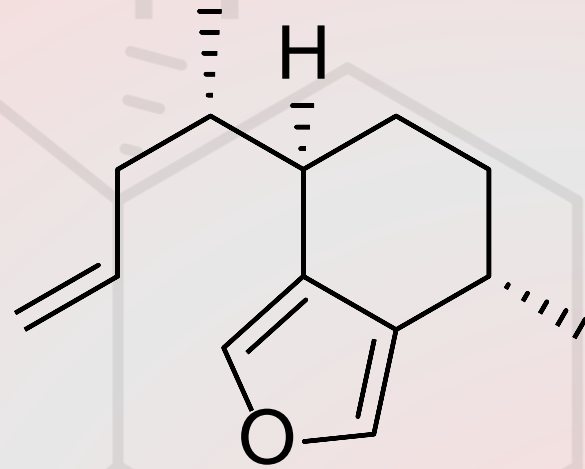
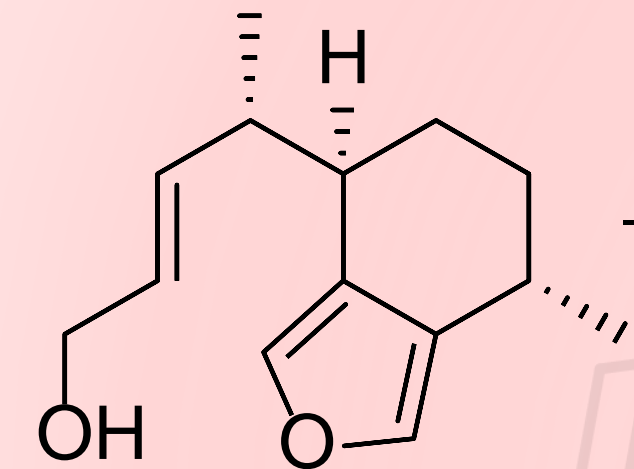
THF

0 °C

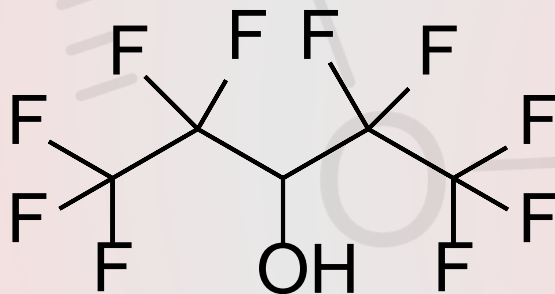
30 min

Then HFIP

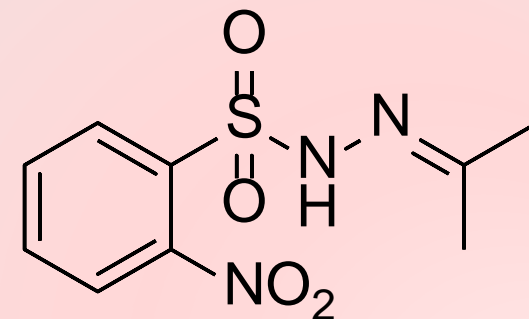
H₂O



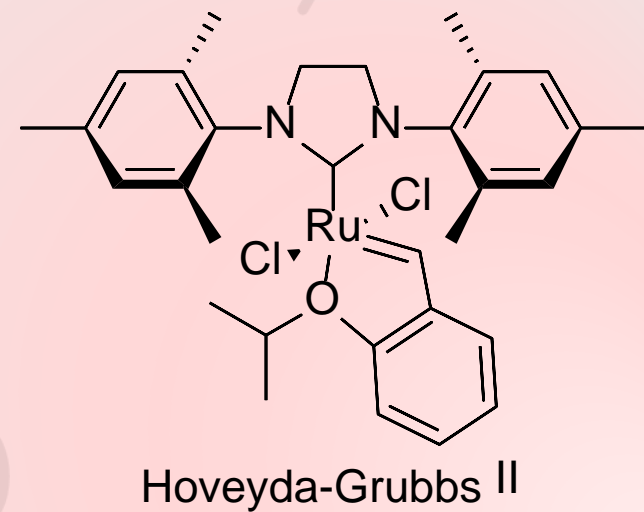
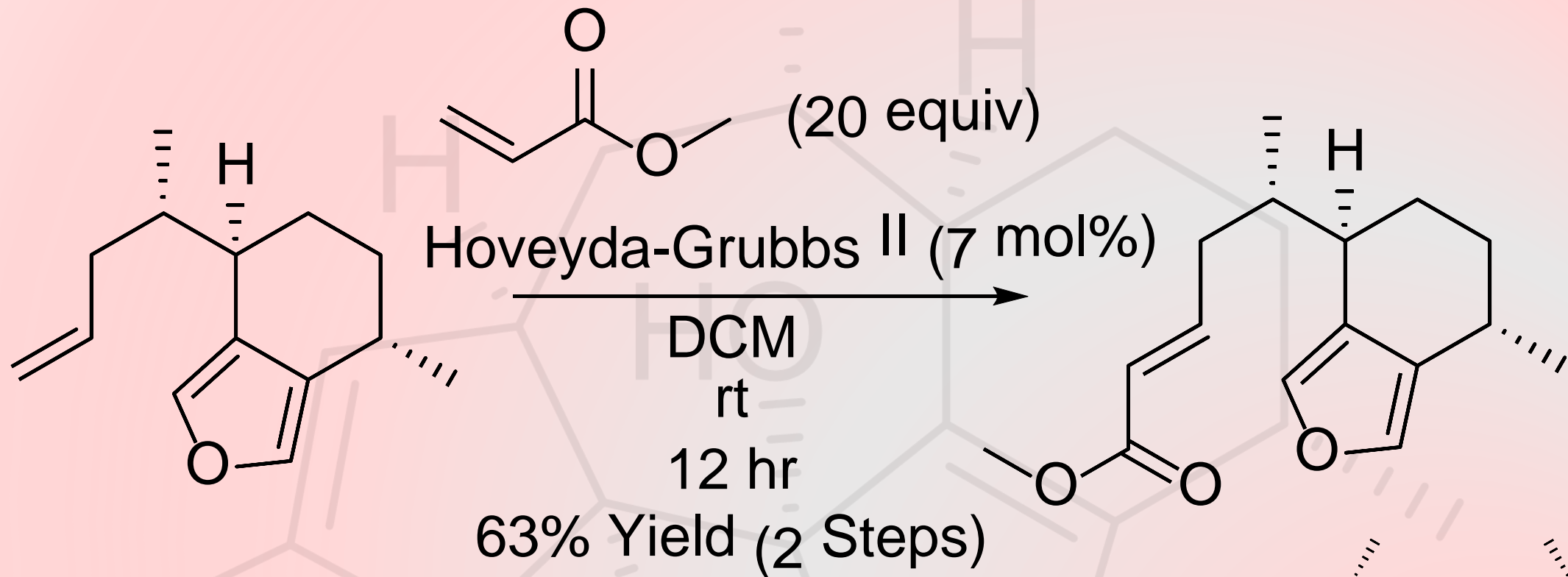
DEAD

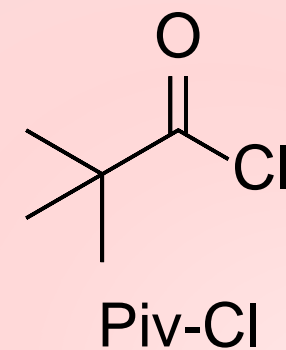
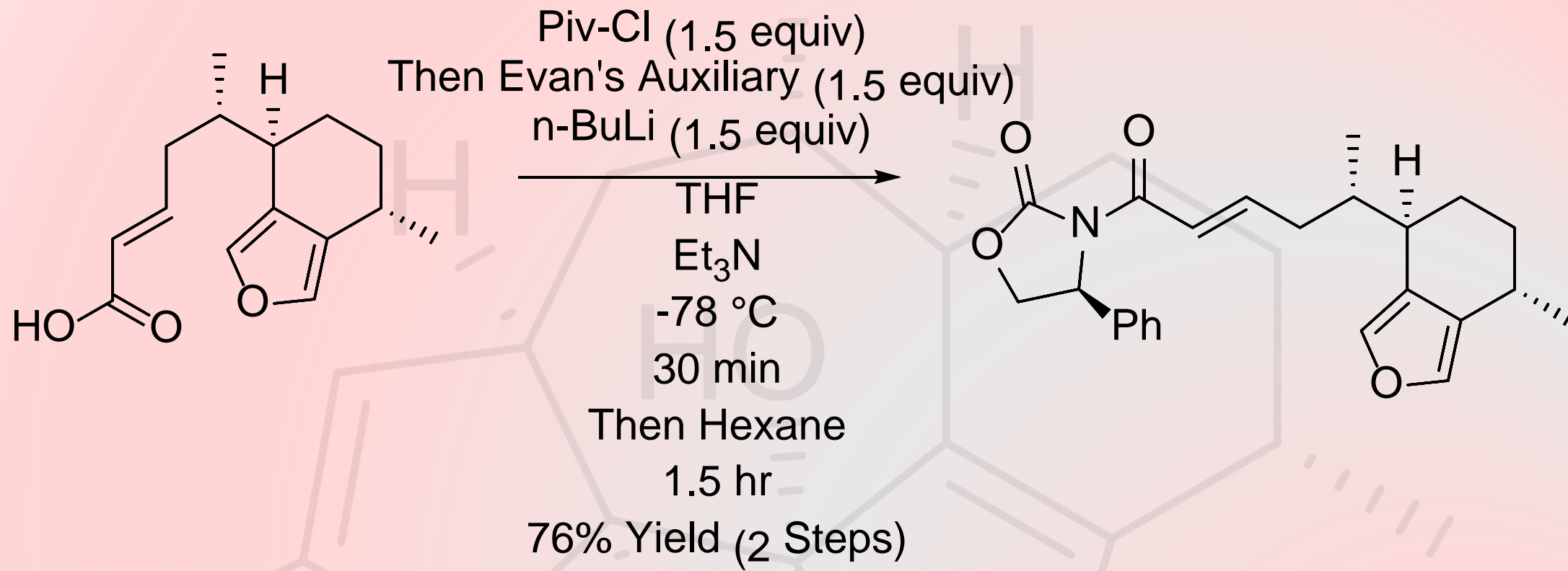


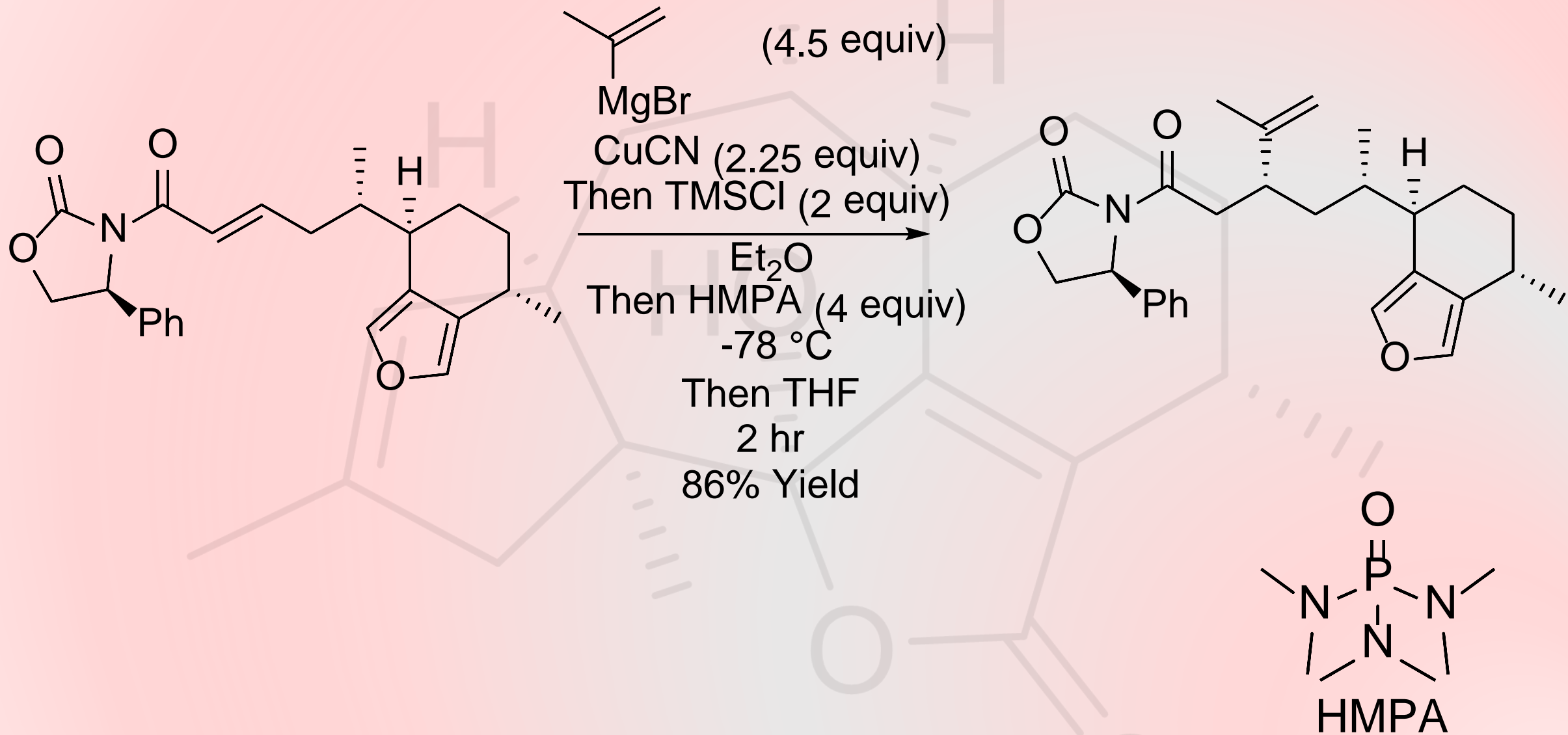
HFIP

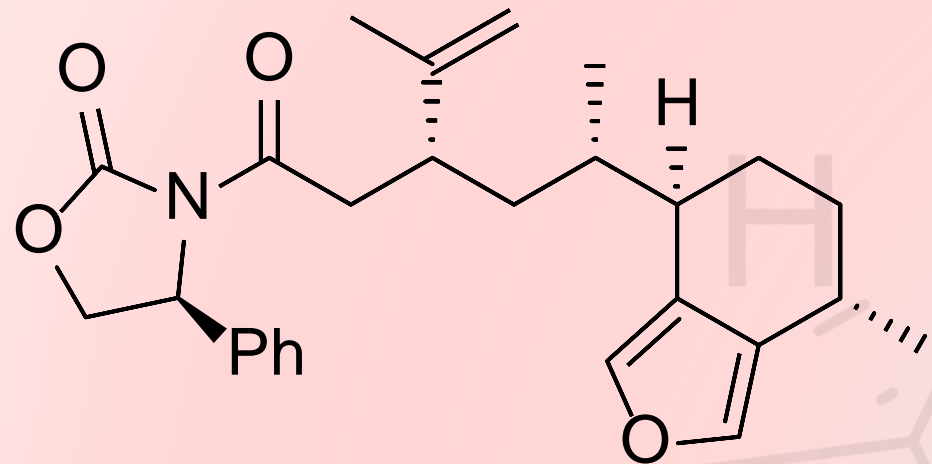


IPNBSH



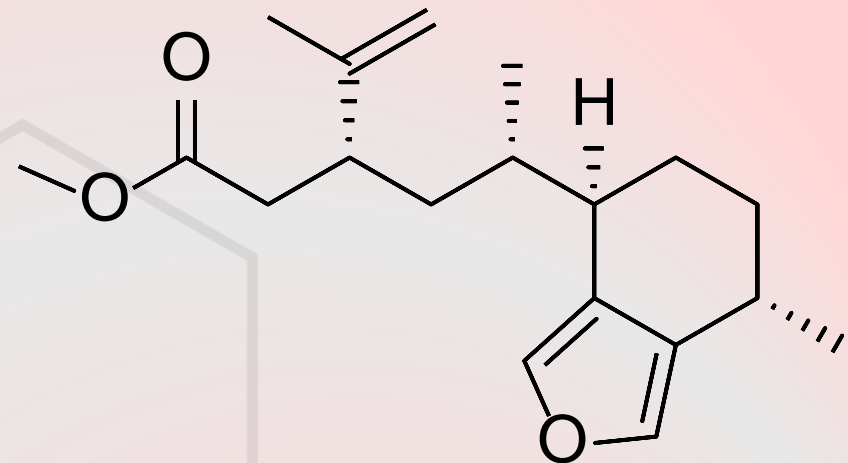


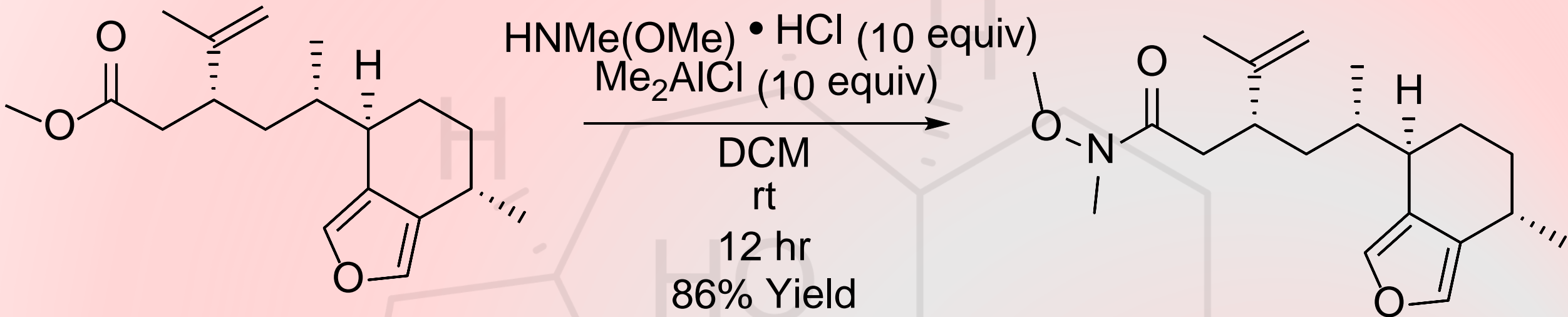


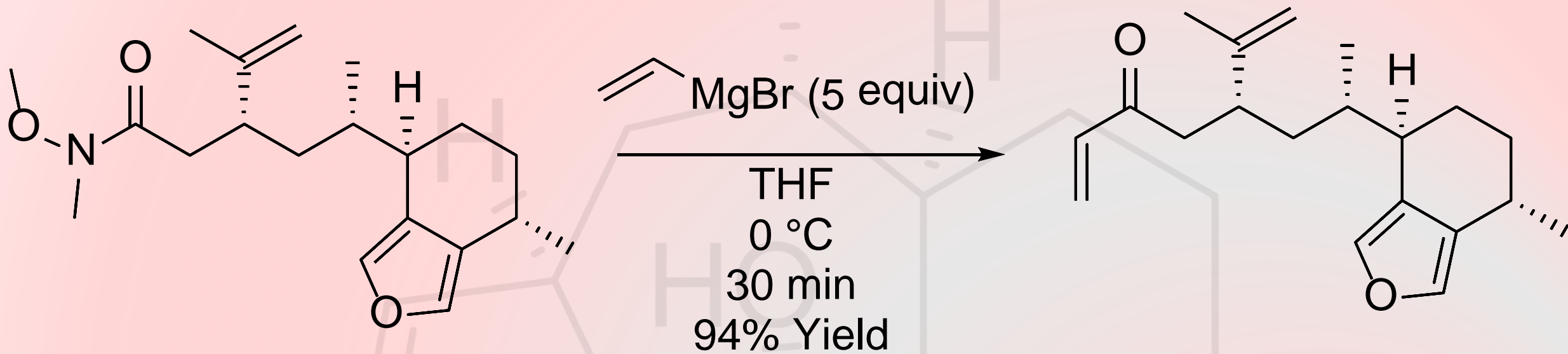


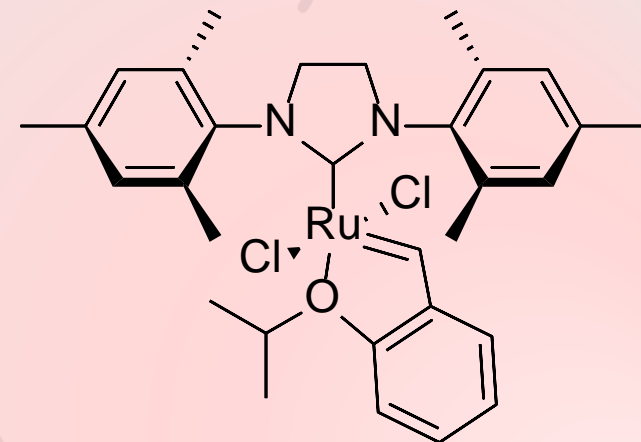
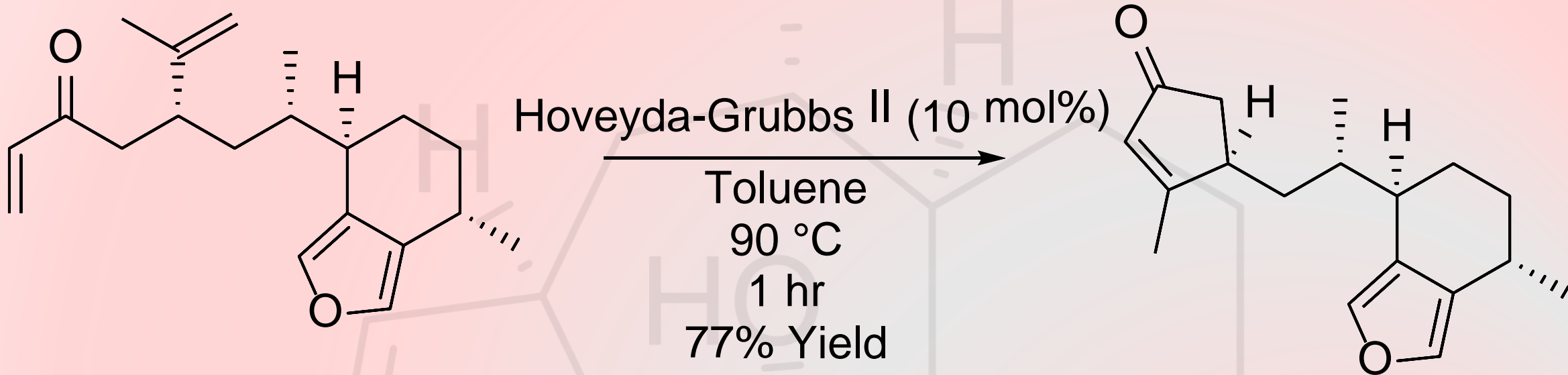
$\text{Sm}(\text{OTf})_3$ (0.1 equiv)

MeOH
50 °C
4 hr
88% Yield

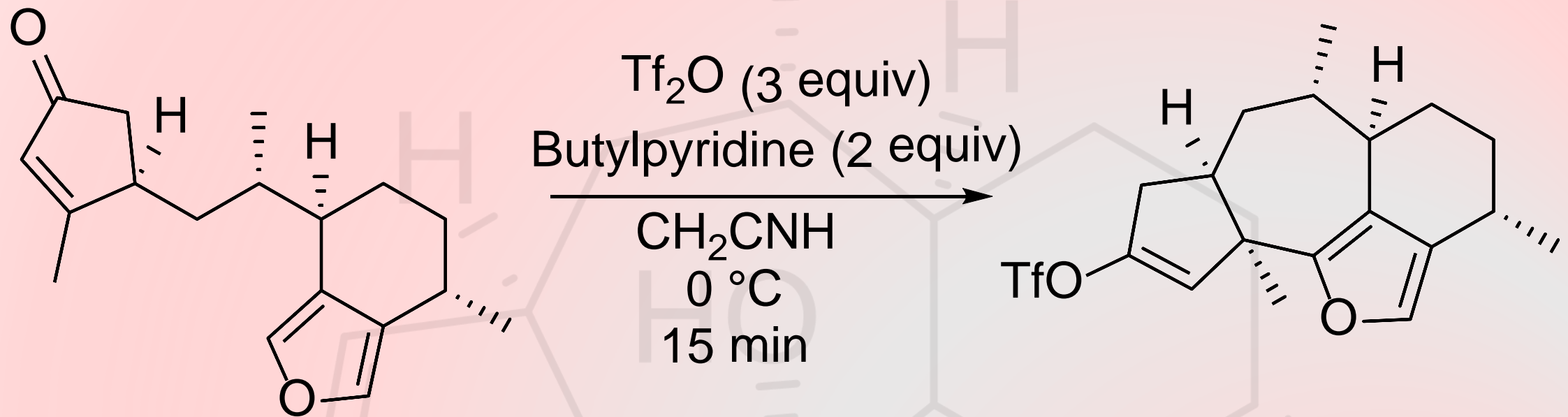


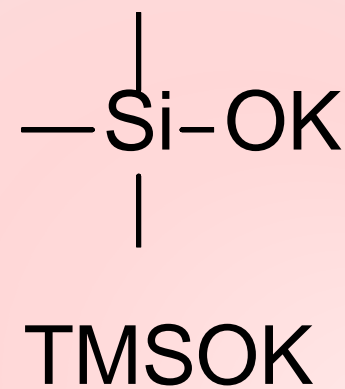
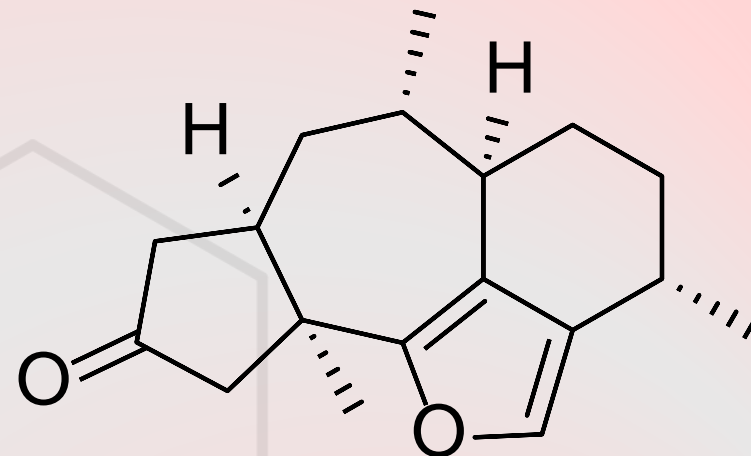
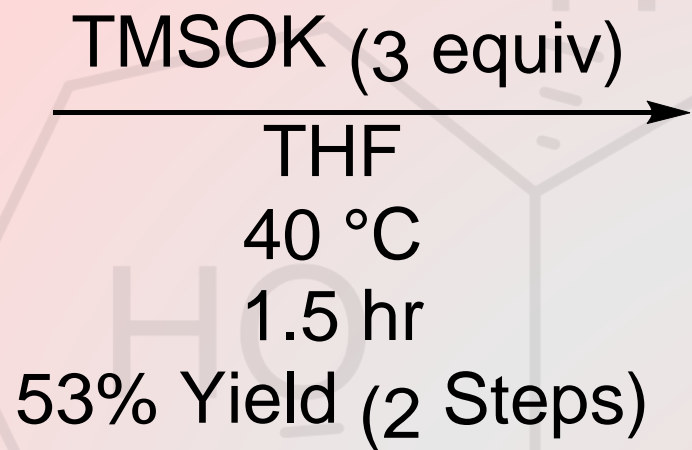
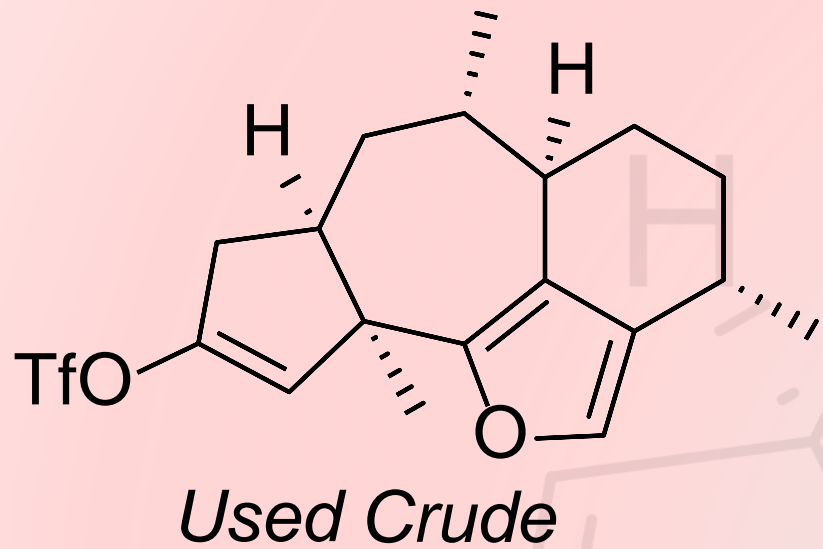


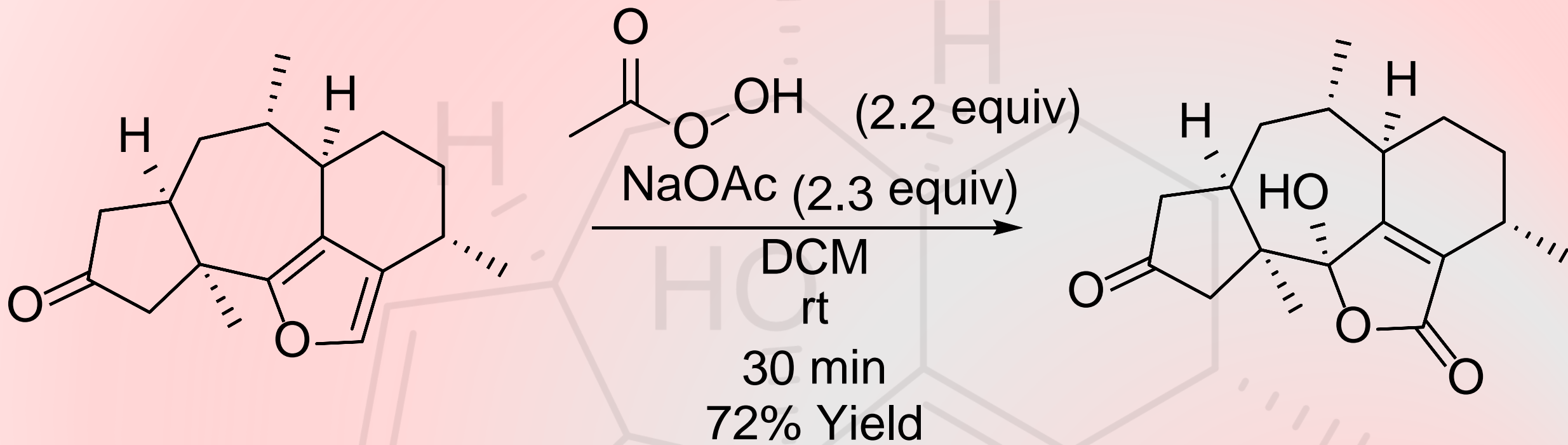


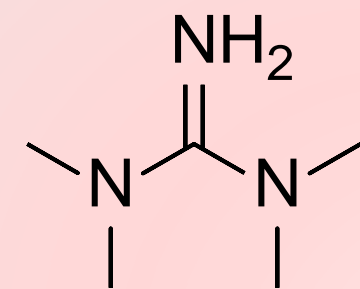
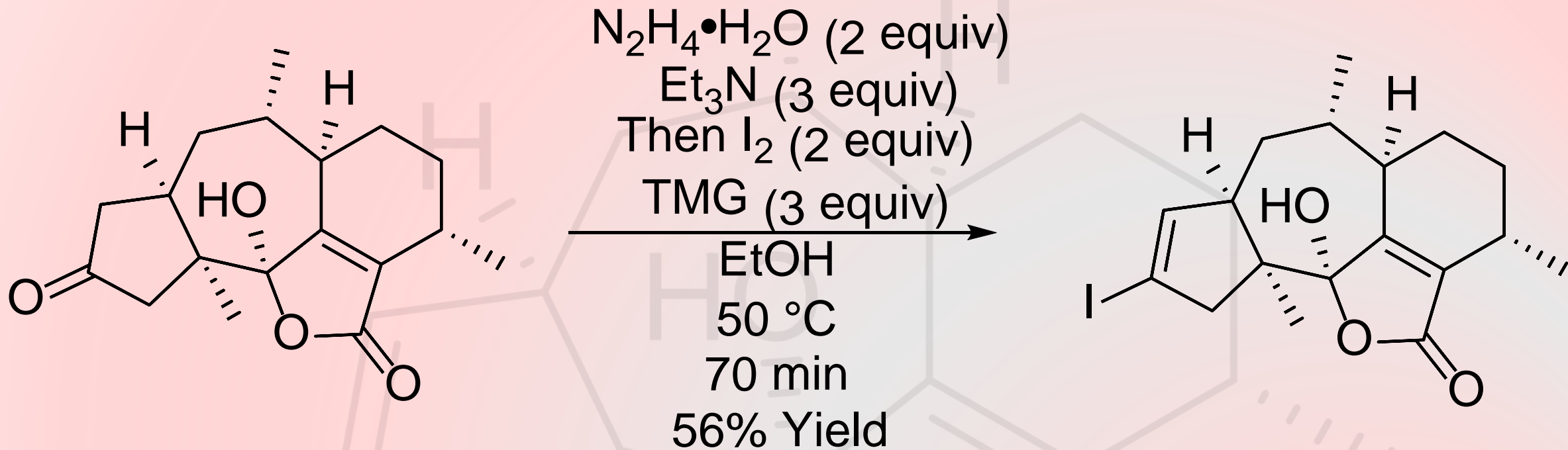


Hoveyda-Grubbs II









Tetramethylguanidine

