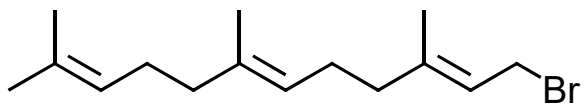


Synthesis Challenge # 55

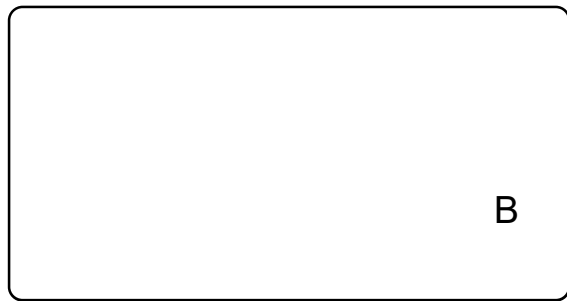
AG Wegner

17.11.2016



A

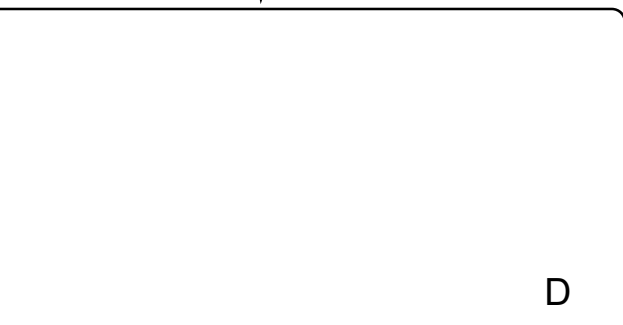
↓ 1-4



↓ 5



↓ 6-7

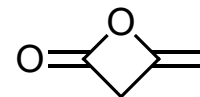


- 1) LDA, EtCN, HMPA/THF
- 2) NBS, H₂O; MeOH, K₂CO₃
- 3) C₂Pp₂TiCl₂, Zn, heat
- 4) TBSCl, imidazole

5) LTMP, I, THF/Et₂O

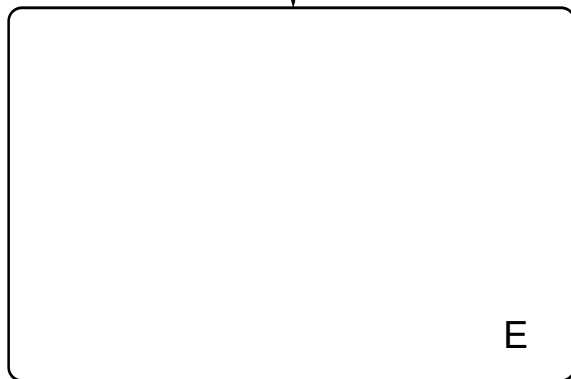
- 6) TMSCHN₂
- 7) PhI(OAc)₂, KOH/MeOH

Please, provide a synthesis of **A**.



I

8-9



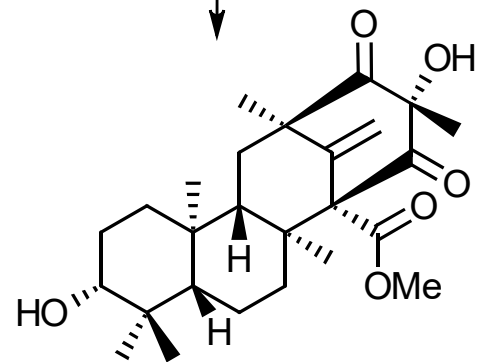
8) $\text{H}_2\text{C}=\text{P}(\text{Ph})_3$, heat
9) LTMP, TsCl

10-12



10) LDA, ClCO_2Me
11) $\text{MeB}(\text{OH})_2$, K_3PO_4 , $\text{Pd}(\text{OAc})_2$ /
SPhos
12) TsOH, MeOH

13



13) LiCl, DMSO, heat,
then add mCPBA