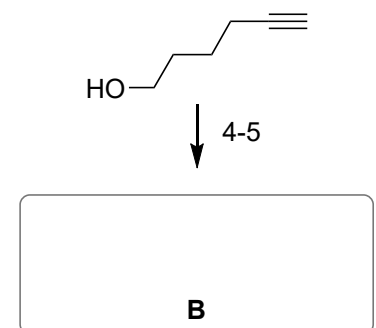
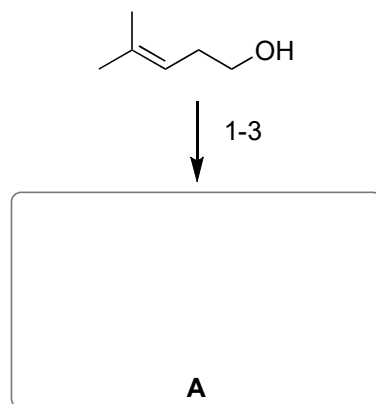


Total Synthesis of Clerodin

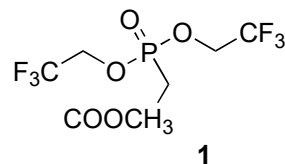
Q. Yin, Y. Dang, S. Feng, Z.-Q. Zhang, Y. Tu, M. Yang, "Total Synthesis of Clerodin" *Angew. Chem. Int. Ed.* 2025, 64, e202515206.



A + B

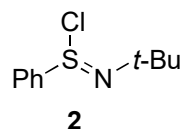


- 1) MsCl, pyr
- 2) NaI
- 3) NaH, **1**



- 4) LiHMDS, TMSCl
- 5) (COCl)₂, DMSO, Et₃N

- 6) NaH then TBAF
- 7) SeO₂, TBHP, salicylic acid
- 8) NaBH₄
- 9) Ti(O*i*-Pr)₄, (*D*)-DET, TBHP then TBSCl
- 10) DiBAL-H
- 11) PivCl
- 12) Cp₂TiCl₂, 2,4,6-collidine HCl, Zn
- 13) IBX
- 14) LiHMDS, **2** then MeLi then Ac₂O

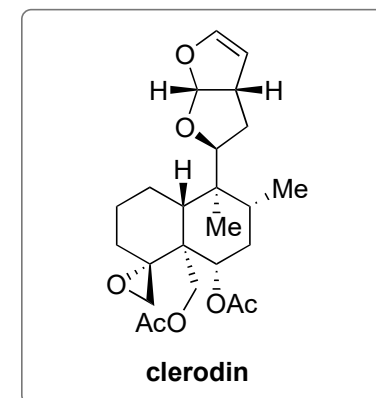


5) Name of the reaction?

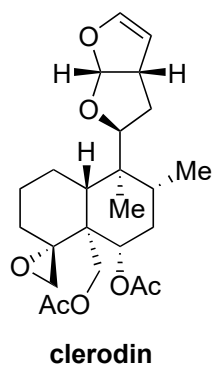
6) Name of the reaction?

9) Name of the reaction?

14) Name of the reaction?



6-27



- 15) PCC, NaHCO₃
- 16) Sml₂
- 17) NaBH₄
- 18) Ac₂O, DMAP, Et₃N
- 19) TBAF
- 20) IBX
- 21) Ph₃PCH₂
- 22) PhI(OAc)₂, I₂ then AgNO₃, NaHCO₃
- 23) OsO₄, pyr
- 24) **3**, **4**, pyr, NiBr₂(dtbbpy), Ir(ppy)₂(dtbbpy)PF₆, phthalimide, Quinuclidine, *t*-BuOMe/DMAc, 60 W Blue LEDs
- 25) PtO₂, H₂ then HClO₄
- 26) Ac₂O
- 27) Sml₂

