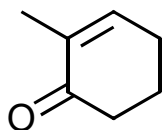


Synthesis Challenge # 56

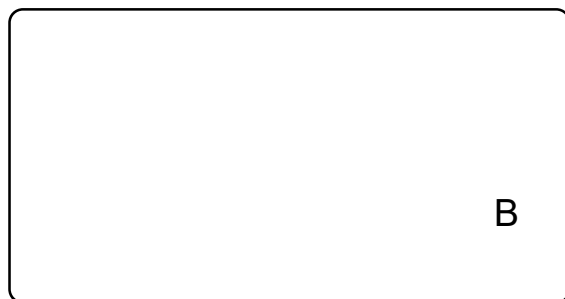
AG Wegner

1.12.2016



A

↓ 1-5



↓ 6-8



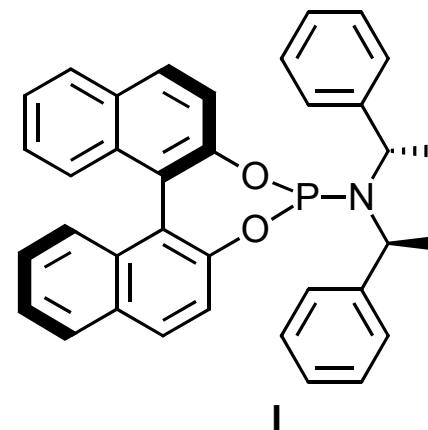
↓ 9-13



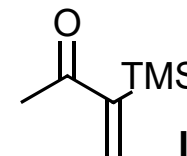
- 1) Me_3Al , CuTC, **I**; MeLi, HMPA, **II**
- 2) NaOMe
- 3) $\text{HC}(\text{OMe})_3$, MsOH
- 4) Oxone®
- 5) Ethylvinylether, NIS

- 6) TMSOTf, Et₃N
- 7) IBX, MPO
- 8) Zn, CuI; MsOH, EtOH

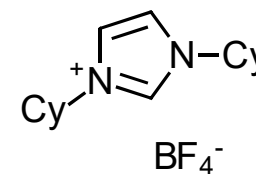
- 9) CuCl, **III**, NaOtBu, B₂pin₂,
- 10) LiHMDS, PhNTf₂
- 11) NaBO₃
- 12) DMP
- 13) DIBAL-H



I

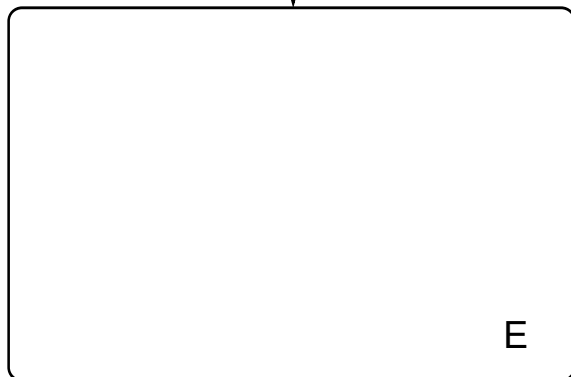


II

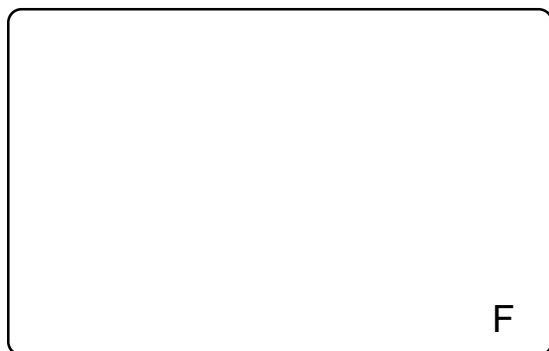


III

↓ 14-17



↓ 18-20



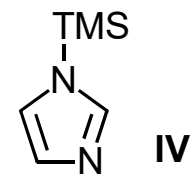
↓ 21-22



- 14) **IV**
- 15) Pd(PPh₃)₄, CO, MeOH, Et₃N
- 16) DIBAL-H
- 17) PPh₃, I₂, imidazole

- 18) acetaldehyde, CrCl₂, LiI, 4Å MS, 2,6-lutidine
- 19) NaBH₄, NiCl₂
- 20) TPAP, NMO

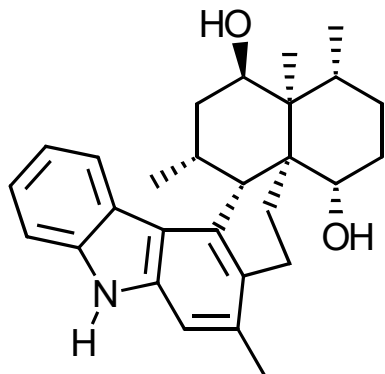
- 21) NaHMDS, PhNTf₂; TBAF
- 22) AlI₃



23-24



25-27



23) Pd(PPh₃)₄, CuTC, **V**
24) LiHMDS, **VI**

25) toluene, 90°C; then DDQ
26) TiCl₄, Et₃SiH
27) Mg, MeOH

