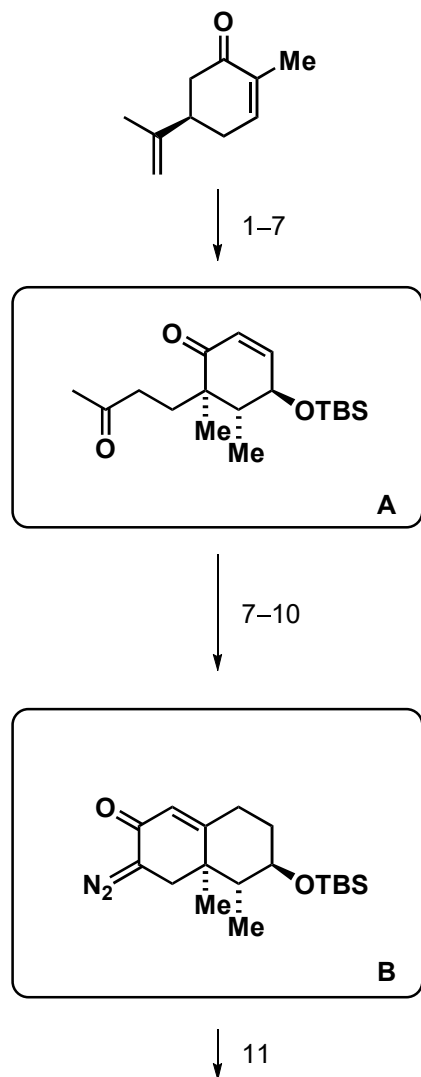


Total Synthesis of the Sesquiterpenoid Periconianone A Based on a Postulated Biogenesis

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- 1) FeCl_3 , MeMgBr , TMSCl
- 2) PhNO , AcOH
- 3) TBSCl , imid, DMAP
- 4) LiCl , CuI , MeMgBr , TMSCl
- 5) MVK , $\text{BF}_3 \cdot \text{Et}_2\text{O}$
- 6) O_3 , MeOH then $\text{Cu}(\text{OAc})_2$, FeSO_4

- 7) H_2 , Pd/C
- 8) NaOMe
- 9) LiHMDS , $\text{F}_3\text{C}(\text{CO})\text{OCH}_2\text{CF}_3$
- 10) MsN_3 , Et_3N

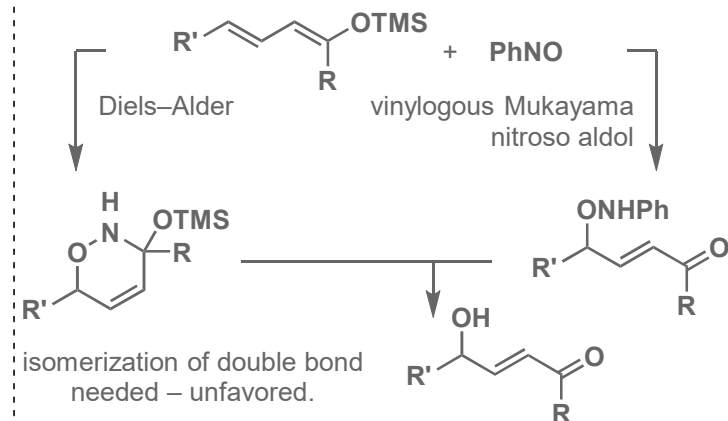
- 11) $\text{Rh}_2(\text{OAc})_4$, PhMe , 65°C

Kharasch reagent
JACS **1984**, *106*, 7621–7623

Step 1: Who invented this protocol?

Step 2: Come up with a mechanism.

Step 6: Name this transformation.



Criegee Fragmentation, *JACS* **1980**, *102*, 6163–6165

