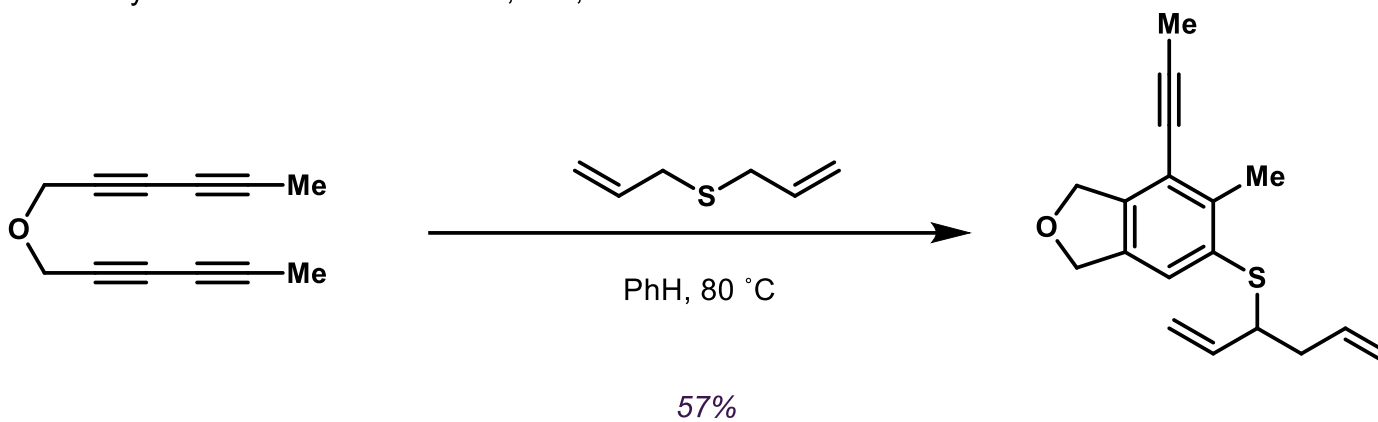
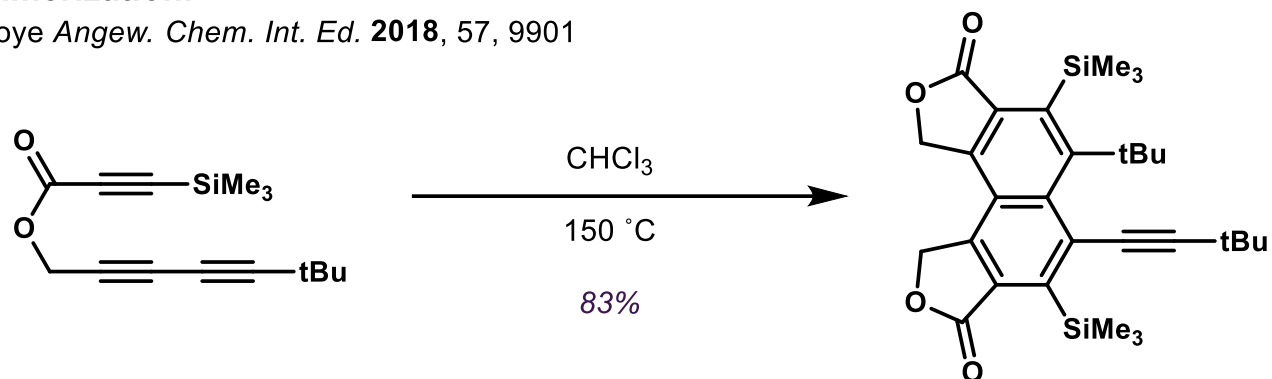


Alkynes Are Doin' It For Themselves**1. Provide a mechanism for the following reaction.**J. Chen, V. Palani, & T. R. Hoye *J. Am. Chem. Soc.* **2016**, 138, 4318

Alkynes Are Doin' It For Themselves**2. Propose a mechanism for this dimerization.**X. Xiao, B. P. Woods, W. Xiu, & T. R. Hoye *Angew. Chem. Int. Ed.* **2018**, 57, 9901

Alkynes Are Doin' It For Themselves**3. Draw your rationalization for this process.**T. Wang, R. R. Naredla, S. K. Thompson, & T. R. Hoye *Nature* **2016**, 532, 484