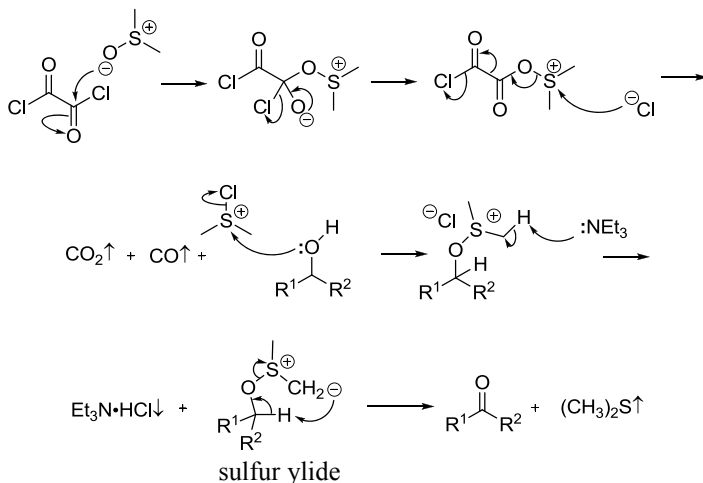
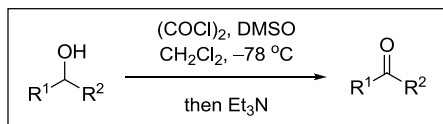
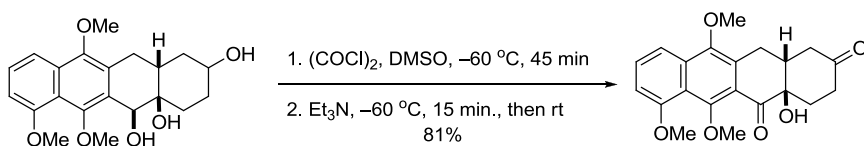


Swern oxidation

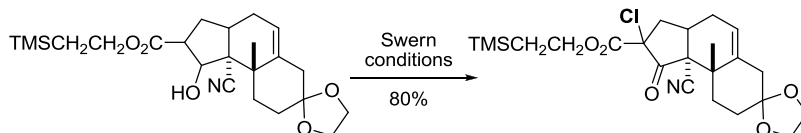
Oxidation of alcohols to the corresponding carbonyl compounds using $(\text{COCl})_2$, DMSO, and quenching with Et_3N .

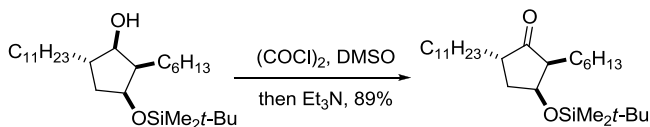
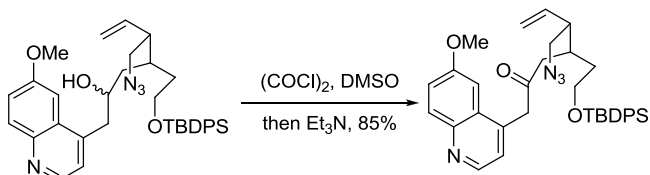


Example 1²



Example 2³



Example 3⁵Example 4⁷

References

1. (a) Huang, S. L.; Omura, K.; Swern, D. *J. Org. Chem.* **1976**, *41*, 3329–3331. (b) Huang, S. L.; Omura, K.; Swern, D. *Synthesis* **1978**, *4*, 297–299. (c) Mancuso, A. J.; Huang, S. L.; Swern, D. *J. Org. Chem.* **1978**, *43*, 2480–2482. Daniel Swern was a professor at Temple University.
2. Ghera, E.; Ben-David, Y. *J. Org. Chem.* **1988**, *53*, 2972–2979.
3. Smith, A. B., III; Leenay, T. L.; Liu, H. J.; Nelson, L. A. K.; Ball, R. G. *Tetrahedron Lett.* **1988**, *29*, 49–52.
4. Tidwell, T. T. *Org. React.* **1990**, *39*, 297–572. (Review).
5. Chadka, N. K.; Batcho, A. D.; Tang P. C.; Courtney, L. F.; Cook C. M.; Wovliulich, P. M.; Usković, M. R. *J. Org. Chem.* **1991**, *56*, 4714–4718.
6. Harris, J. M.; Liu, Y.; Chai, S.; Andrews, M. D.; Vederas, J. C. *J. Org. Chem.* **1998**, *63*, 2407–2409. (Odorless protocols).
7. Stork, G.; Niu, D.; Fujimoto, R. A.; Koft, E. R.; Bakovec, J. M.; Tata, J. R.; Dake, G. R. *J. Am. Chem. Soc.* **2001**, *123*, 3239–3242.
8. Nishide, K.; Ohsugi, S.-i.; Fudesaka, M.; Kodama, S.; Node, M. *Tetrahedron Lett.* **2002**, *43*, 5177–5179. (Another odorless protocols).
9. Ahmad, N. M. *Swern Oxidation*. In *Name Reactions for Functional Group Transformations*; Li, J. J., Ed.; Wiley: Hoboken, NJ, **2007**, pp 291–308. (Review).
10. Lopez-Alvarado, P; Steinhoff, J; Miranda, S; Avendano, C; Menendez, J. C. *Tetrahedron* **2009**, *65*, 1660–1672.
11. Zanatta, N.; Aquino, E. da C.; da Silva, F. M.; Bonacorso, H. G.; Martins, M. A. P. *Synthesis* **2012**, *44*, 3477–3482.