

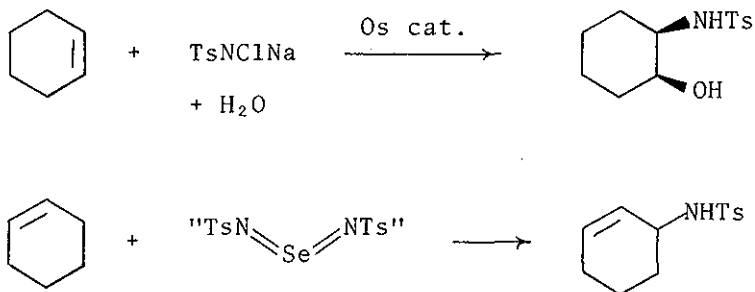
METAL CATALYSIS IN THE SYNTHESIS OF HETEROCYCLES

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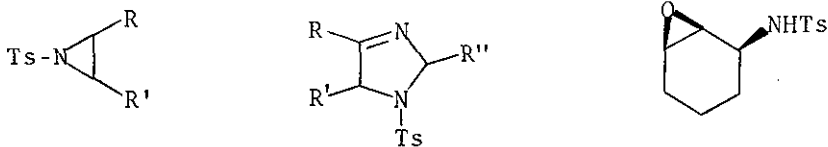
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Olefins can now be readily transformed to vicinal hydroxy-sulfonamides¹ and allylic sulfonamides²:

e.g.



The conversion of these derivatives to heterocycles such as those shown below will be described.³



References

1. K. B. Sharpless, A. O. Chong and K. Oshima, J. Org. Chem., 41, 177 (1976).
2. (a) K. B. Sharpless, T. Hori, L. K. Truesdale and C. O. Dietrich, J. Amer. Chem. Soc., 98, 269 (1976); (b) K. B. Sharpless and T. Hori, J. Org. Chem., 41, 176 (1976).
3. J.-E. Bäckvall, K. Oshima and R. E. Palermo, unpublished results.