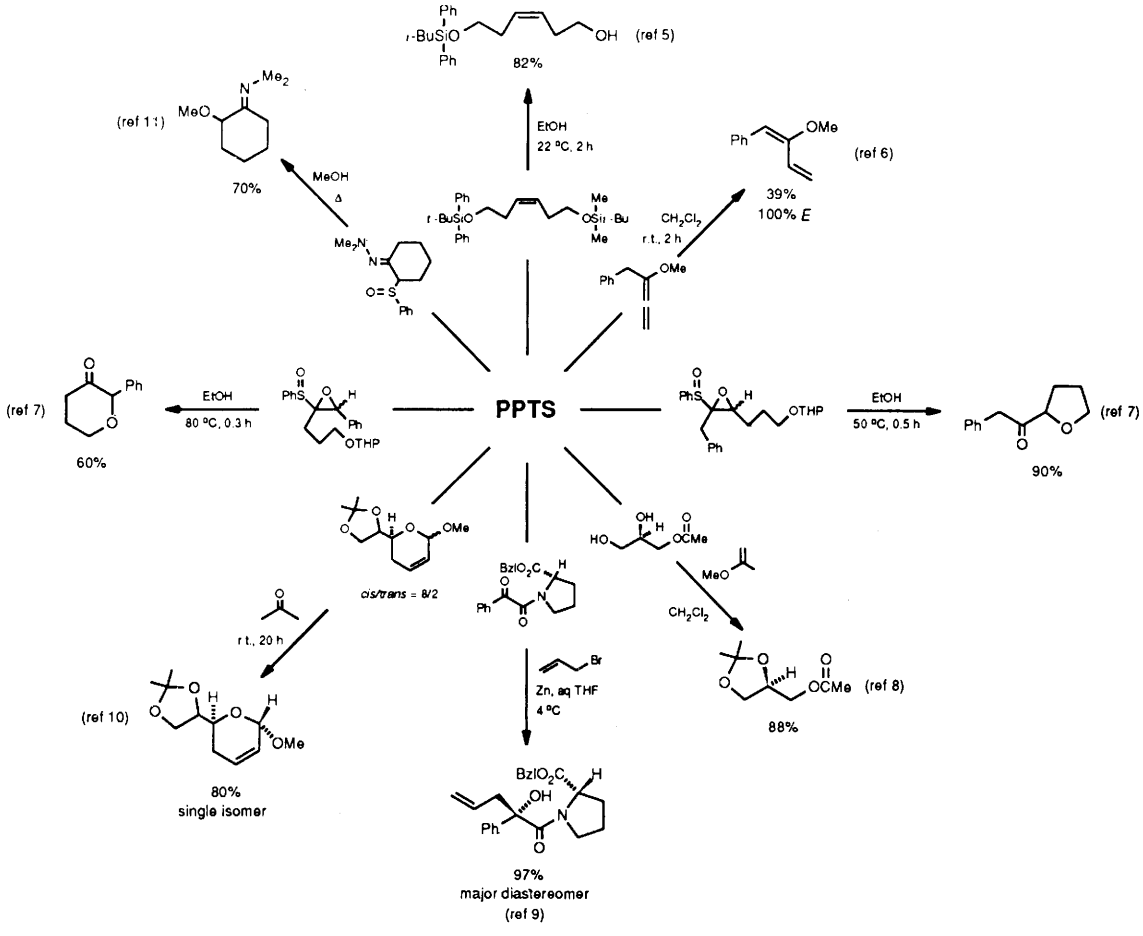
PPTS

Pyridinium p toluenesulfonate *(PPTS) is a sharp-melting, white, crystalline material that is soluble in alcohols (e.g., MeOH, EtOH) and dichloromethane. It is a mild, efficient acid catalyst for the protection of alcohols such as THP-[1] and MPM-ethers,[2] and diols such as 1,3-dioxolanes.[3] PPTS is one of the best reagents available for the cleavage of MEM- and MOM-ethers of allylic alcohols.[4] As the diagram illustrates, it is also an effective catalyst for selective removal of the TBDMS group,[5] isomerization of allenes,[6] epoxide rearrangements[7] and an asymmetric Barbier reaction.[9]*



23,223-8	**Pyridinium *p*-toluenesulfonate,** 98% (PPTS)	**25g $25.10**	**100g $89.60**
36,273-5	**Poly(4-vinylpyridinium *p*-toluenesulfonate)**	**10g $18.50**	**50g $56.00**

References:

(1) Miyashita, N.; Yoshikoshi, A.; Grieco, P.A. *J. Org. Chem.* **1977**, *42*, 3772. (2) Nakajima, N.; Horita, K.; Abe, R.; Yonemitsu, O. *Tetrahedron Lett.* **1988**, *29*, 4139. PPTS is useful only for the protection of 1° alcohols as their 4-methoxybenzyl (MPM) ethers. (3) Sterzycki, R. *Synthesis* **1979**, 724. (4) Monti, H.; Léandri, G.; Klos-Ringuet, M.; Corriol, C. *Synth. Commun.* **1983**, *13*, 1021. (5) Prakash, C.; Saleh, S.; Blair, I.A. *Tetrahedron Lett.* **1989**, *30*, 19. (6) Kucerovy, A.; Neuenschwander, K.; Weinreb, S.M. *Synth. Commun.* **1983**, *13*, 875. (7) Satoh, T.; Iwamoto, K.; Yamakawa, K. *Tetrahedron Lett.* **1987**, *28*, 2603. (8) Suemune, H.; Mizuhara, Y.; Akita, H.; Sakai, K. *Chem. Pharm. Bull.* **1986**, *34*, 3440. (9) Waldmann, H. *Synlett* **1990**, 627. (10) Jurczak, J.; Bauer, T.; Golebiowski, A. *Bull. Pol. Acad. Sci., Chem.* **1985**, *33*, 397; *Chem. Abstr.* **1986**, *105*, 227166u. (11) Pflieger, P.; Mioskowski, C.; Salaun, J.P.; Weissbart, D.; Durst, F. *Tetrahedron Lett.* **1989**, *30*, 2791.