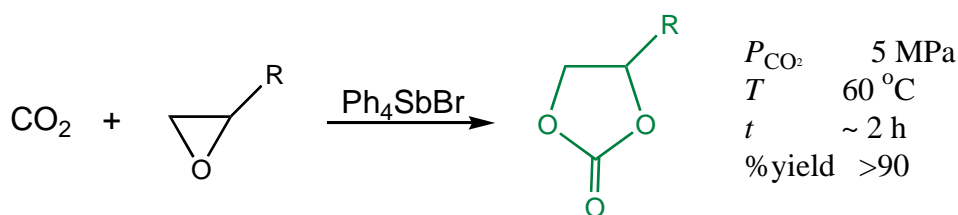


# (1) 二酸化炭素を直接原料とする有機合成

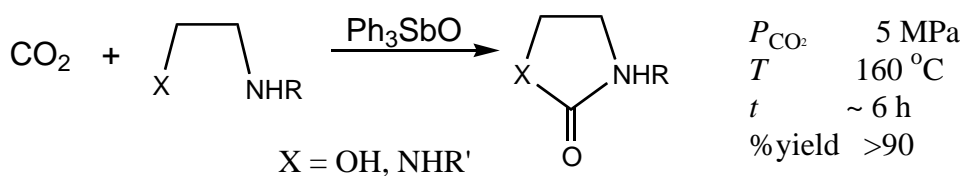
## ー 有機アンチモン触媒の開発ー



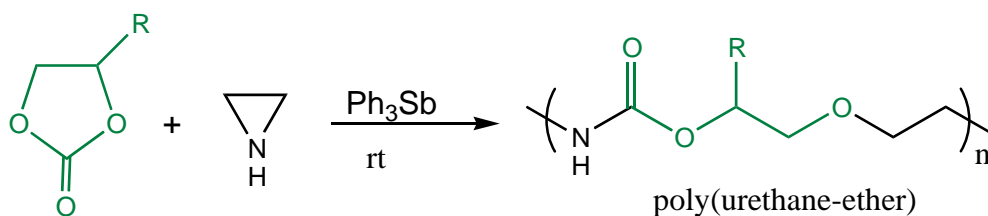
R = H, CH<sub>3</sub>, CH<sub>2</sub>Cl, Ph etc.

*J. Org. Chem.* **1980**, 45, 3735; *Chem. Lett.* **1979**, 573, & 1261.

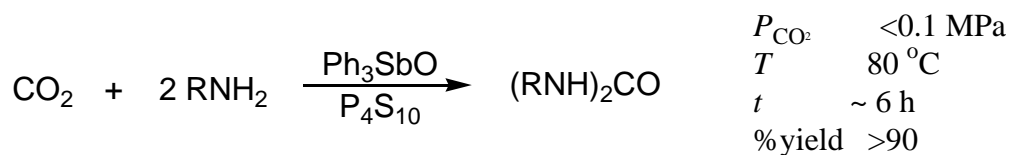
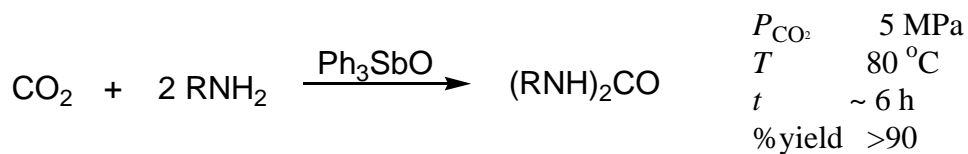
R=CH<sub>3</sub> の場合はリチウム電池の電解質電解質溶剤として重要



*Ind. Eng. Chem. Prod. Res.Dev.* **1985**, 24, 239; *Ind. Eng. Chem. Res.* **1987**, 26, 1056.



*Makromol. Chem. Rapid Commun.* **1988**, 9, 739.



*J. Org. Chem.* **1992**, 57, 7339.