1996 azides

azides (benzene compounds)

Q 0170 22 - 105 Molecular Sieves Promoted Regioselective Ring Opening of N-Tosylaziridines Catalyzed by Imidochromium Complexes. — The regioselectivity of the Cr-catalyzed ring opening of N- tosylaziridines such as (I) with azide is significantly enhanced by molecular sieves. — (LEUNG, W.-H.; YU, M.-T.; WU, M.-C.; YEUNG, L.-L.; Tetrahedron Lett. 37 (1996) 6, 891-892; Dep. Chem., Hong Kong Univ. Sci. Technol., Kowloon, Hong Kong; EN)

$$\begin{array}{c} \text{Tos} \\ \text{Ph} \end{array} \xrightarrow{\text{Tms-N}_3, \text{ CH}_2\text{Cl}_2, \text{ 25°C, [2 d]}} \begin{array}{c} \text{Tos} \\ \text{Ph} \end{array} \xrightarrow{\text{Tos}} \begin{array}{c} \text{N}_3 \\ \text{Ph} \end{array} \xrightarrow{\text{Tos}} \begin{array}{c} \text{HN} \\ \text{Ph} \end{array} \xrightarrow{\text{Tos}} \begin{array}{c} \text{Tos} \\ \text{Ph} \end{array}$$

A): CrCl3(N-tBu)(dme) (cat.) 40% (1:1)
B): mal. sieves, CrCl3(N-tBu)(dme) (cat.) 86% (40:1)