

*Supporting Information*

**A theoretical study of DABCO and PPh<sub>3</sub> catalyzed annulations of  
allenoates with azodicarboxylate**

**Yan Li\*, Shiwen Du, Zheng Du, Congmei Chen**

*School of Petroleum and Chemical Engineering, Dalian University of Technology,  
2 Dagong Road, New District of Liaodong Bay, Panjin City, Liaoning Province,  
People's Republic of China, 124221*

Corresponding person: Yan Li

E-mail: yanli\_101@dlut.edu.cn

Telephone: 15142738951

Fax: 86-427-2631111

Fig 1. Free energy profile of the reaction channels proceeded via 1 (down attack mode). The solvation-corrected relative free energies at SMD(1,4-dioxane)/M06-2X/6-311++G(d,p) level are given in kcal/mol.

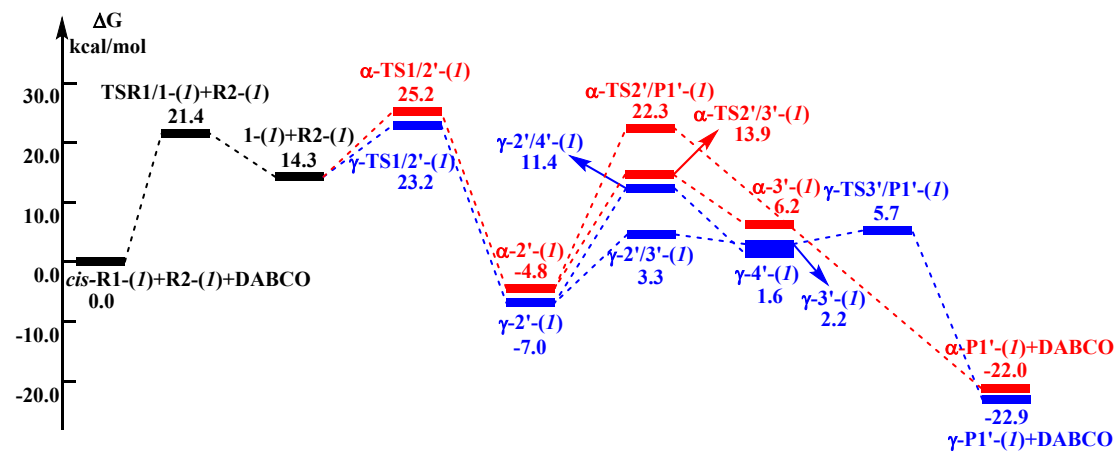


Fig 2. Free energy profile of the reaction channels proceeded via 1a (up attack mode). The solvation-corrected relative free energies at SMD(1,4-dioxane)/M06-2X/6-311++G(d,p) level are given in kcal/mol.

