

Electronic Supplementary Information

An efficient ZnBr₂-catalyzed reactions of allylic alcohols with indoles, sulfamides and anilines under high-speed vibration milling conditions

Guang-Peng Fan,^a Zi Liu,^a Guan-Wu Wang^{*a,b}

^a CAS Key Laboratory of Soft Matter Chemistry, Hefei National Laboratory for Physical Sciences at Microscale, and Department of Chemistry, University of Science and Technology of China, Hefei, Anhui 230026, P. R. China

Fax: (+86)551-360-7864; E-mail: gwang@ustc.edu.cn

^b State Key Laboratory of Applied Organic Chemistry, Lanzhou University, Lanzhou, Gansu 730000, P. R. China

NMR-spectra of compounds

| | |
|---|-----|
| ¹ H NMR spectrum of product 3a | S3 |
| ¹ H NMR spectrum of product 3b | S4 |
| ¹ H NMR spectrum of product 3c | S5 |
| ¹ H NMR spectrum of product 3d | S6 |
| ¹ H NMR spectrum of product 3e | S7 |
| ¹ H NMR spectrum of product 3f | S8 |
| ¹ H NMR spectrum of product 3g | S9 |
| ¹³ C NMR spectrum of product 3g | S10 |
| ¹ H NMR spectrum of product 3h | S11 |
| ¹ H NMR spectrum of product 3i | S12 |
| ¹³ C NMR spectrum of product 3i | S13 |
| ¹ H NMR spectrum of product 3j | S14 |
| ¹³ C NMR spectrum of product 3j | S15 |
| ¹ H NMR spectrum of product 3k | S16 |
| ¹ H NMR spectrum of product 3l | S17 |
| ¹³ C NMR spectrum of product 3l | S18 |
| ¹ H NMR spectrum of product 3m | S19 |
| ¹³ C NMR spectrum of product 3m | S20 |
| ¹ H NMR spectrum of product 3n | S21 |
| ¹³ C NMR spectrum of product 3n | S22 |
| ¹ H NMR spectrum of product 3o and 3q | S23 |
| ¹ H NMR spectrum of product 3q | S24 |
| ¹ H NMR spectrum of product 5a | S25 |
| ¹ H NMR spectrum of product 5b | S26 |
| ¹ H NMR spectrum of product 5c | S27 |
| ¹ H NMR spectrum of product 5d | S28 |
| ¹³ C NMR spectrum of product 5d | S29 |
| ¹ H NMR spectrum of product 5e | S30 |

| | |
|---|-----|
| ^1H NMR spectrum of product 5f | S31 |
| ^1H NMR spectrum of product 5g | S32 |
| ^1H NMR spectrum of product 5h | S33 |
| ^{13}C NMR spectrum of product 5h | S34 |





































