Synthesis of New 2-Arylbenzo[b]furan Derivatives via Palladium-Catalyzed Suzuki Cross Coupling Reactions in Aqueous Media

Supporting Information

Qianqian Chen, Panli Jiang, Mengping Guo* and Jianxin Yang*

1 Hainan Provincial Fine Chemical Engineering Research Center, Laboratory of Green Catalysis and Reaction Engineering of Haikou, College of Chemistry and Chemical Engineering, Hainan University, 570228, China;
2 Institute of Coordination Catalysis, College of Chemistry and Bio-Engineering, Yichun University, Yichun 336000, China;

Characterization

1. $^1$H-NMR, $^{13}$C-NMR, HRMS and GC-MS of 2-(4’-Methoxy-biphenyl-4-yl)-benzofuran (solvent: chloroform-d)

![NMR spectrum of 2-(4’-Methoxy-biphenyl-4-yl)-benzofuran]
2. $^1$H-NMR, $^{13}$C-NMR, HRMS and GC-MS of 1-(4'-Benzofuran-2-yl-biphenyl-4-yl)-ethanone (solvent: methylene chloride-d2)
3. $^1$H-NMR, $^{13}$C-NMR, HRMS and GC-MS of 2-(4'-Propyl-biphenyl-4-yl)-benzofuran (solvent: chloroform-d)
4. $^1$H-NMR, $^{13}$C-NMR, HRMS and GC-MS of 2-(3’-Methyl-biphenyl-4-yl)-benzofuran (solvent: chloroform-d)
5. $^1$H-NMR, $^{13}$C-NMR, HRMS, GC-MS of 2-(2'-Methyl-biphenyl-4-yl)-benzofuran (solvent: chloroform-d)
6. $^1$H-NMR, $^{13}$C-NMR, HRMS, GC-MS of
2-(3',4'-Difluoro-biphenyl-4-yl)-benzofuran (solvent: chloroform-d)
7. $^1$H-NMR, $^{13}$C-NMR, HRMS and GC-MS of 2-(3',5'-Difluoro-biphenyl-4-yl)-benzofuran (solvent: chloroform-d)