Dalton Transactions

## Supporting Information for

Efficient synthesis of tetradecafluoro-4-phenylheptan-4-ol by a Cannizzaro-type reaction and

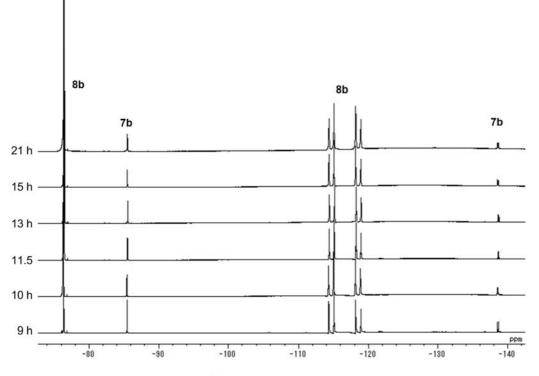
application of the alcohol as a bulky Martin ligand variant for a new anti-apicophilic

phosphorane

Xin-Dong Jiang, Shiro Matsukawa, Ken-ichiro Kakuda, Yuta Fukuzaki, Wei-Li Zhao, Lin-Song Li, Huai-Bin Shen, Satoshi Kojima and Yohsuke Yamamoto

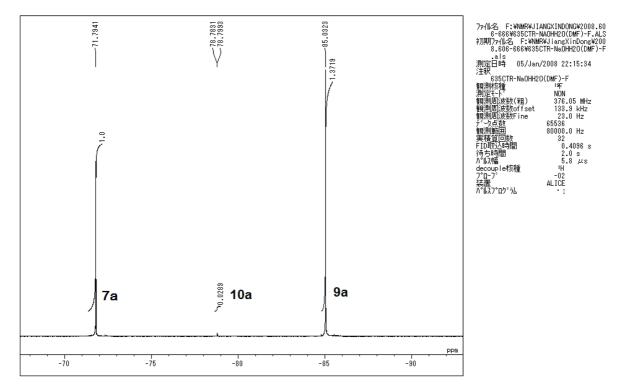
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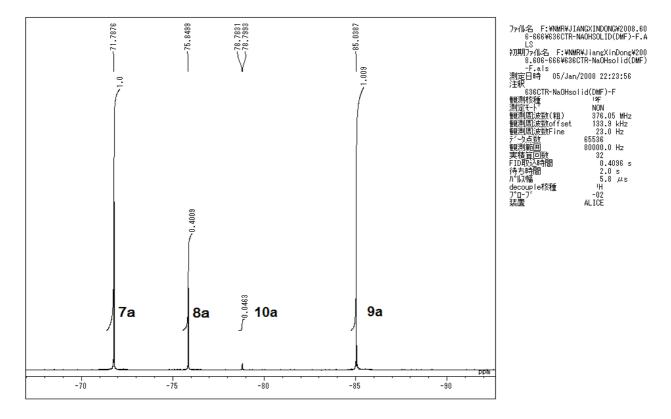


**Figure S1.** Time course of the <sup>19</sup>F NMR signals of the conversion of **7b** to **8b** in THF at 25 °C. The reaction was basically complete in 15 h.

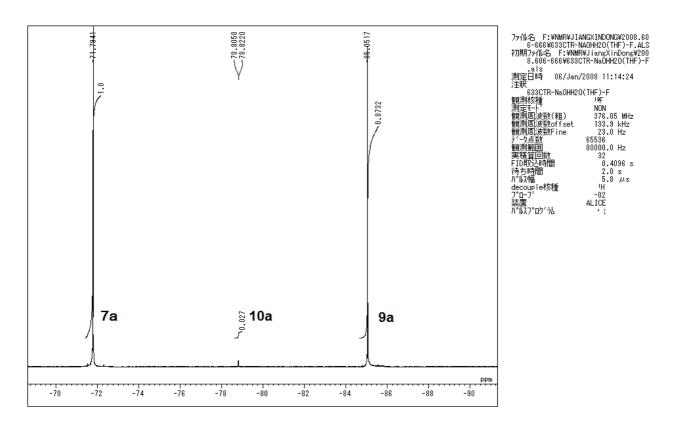
Figure S2. Entry 1-4 in Table 1.



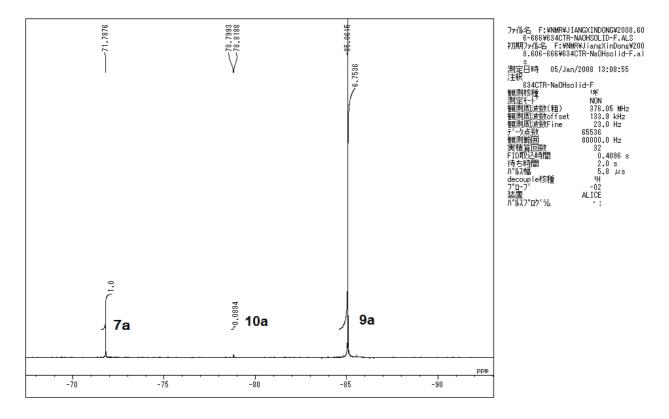








entry 3





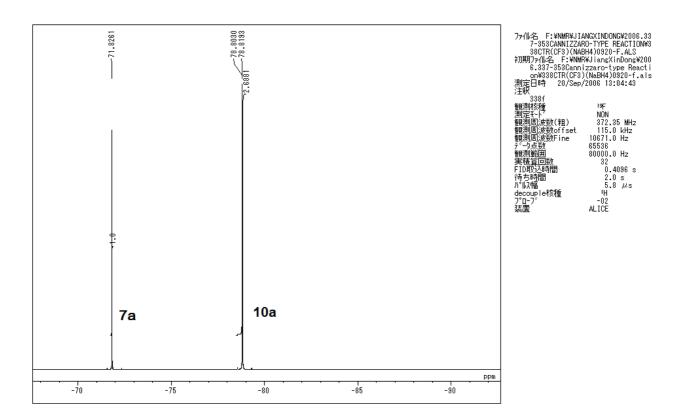
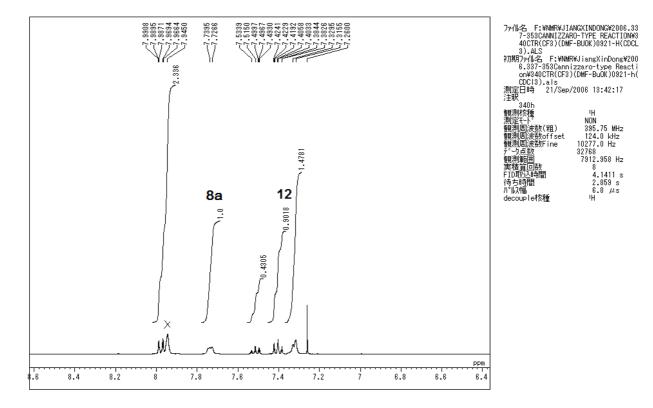
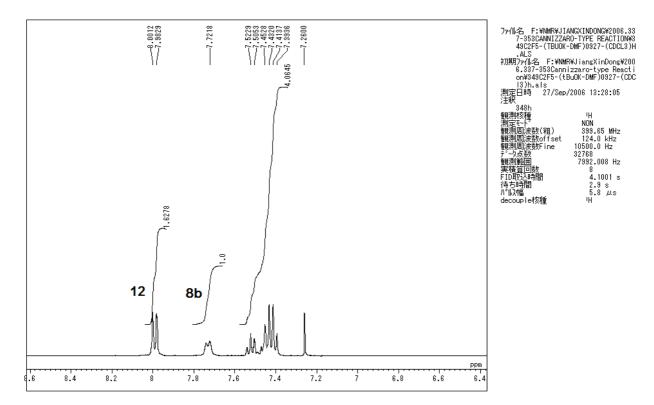


Figure S3. Synthesis of 10a by the reaction of 7a with NaBH<sub>4</sub>.

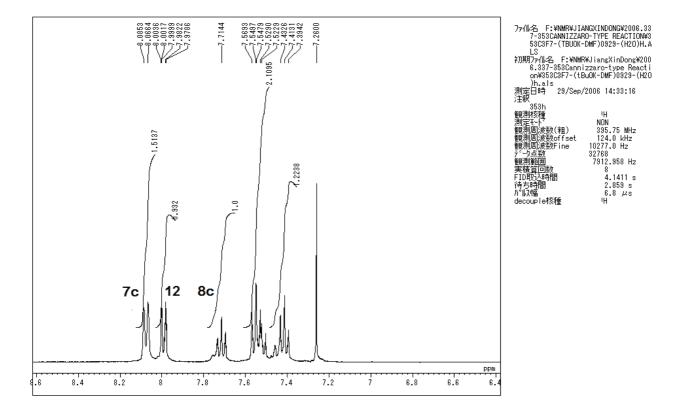
Figure S4. Entry 1-6 in Table 2.



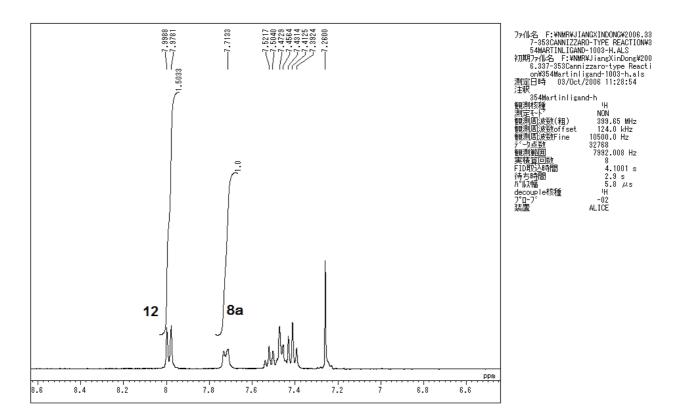
## entry 1



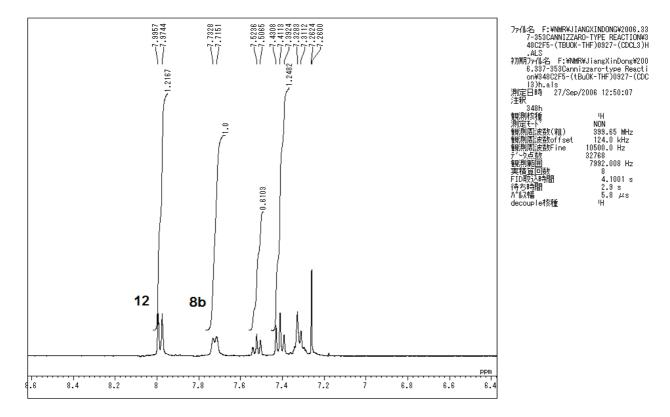




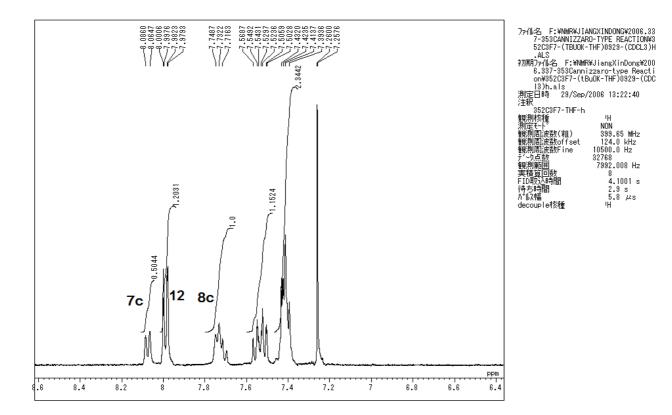




entry 4









Copies of <sup>1</sup>H, <sup>19</sup>F and <sup>31</sup>P NMR spectra

