Synthesis, Structures and Reactivity of

Dilithioplumboles (title 14pt in bold and centered; line space 18pt)

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Since the discovery of benzene1 and its unique structure was proposed by Kekulé2 in the 19th century, the concept of aromaticity has long played important roles in many fields of chemistry.3 In the field of main group chemistry, replacement of a carbon atom in an aromatic compound by a heavy group 14 atom received considerable attention, and silicon- and germanium-bearing aromatic compounds were already been synthesized and fully characterized.4,5 Inspired by the previous reports, we have reported the synthesis of a dilithiostannole and its aromatic character.6 We herein report the synthesis of dilithioplumbole **1**7 by the reaction of hexaphenylplumbole **2**8 with lithium.

Treatment of hexaphenylplumbole **2**8 with lithium in the presence of catalytic amount of naphthalene afforded as mixture of dilithioplumbole **1**7 and phenyllithium. @@@@@……



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**References** (12 pt in *ACS* style; line space 12pt)

1. Faraday, M. *Philos. Trans. R. Soc. Lond.* **1825**, *115*, 440.

2. Kekulé, F. A. *Bull. Soc. Chim. Paris* **1865**, *3*, 98.

3. For examples of reviews, see: (a) De Proft, F.; Geerlings, P. *Chem. Rev.* **2001**, *101*, 1451; (b) Chen, Z.; Wannere, C. S.; Corminboeuf, C.; Puchta, R.; Schleyer, P. v. R. *Chem. Rev.* **2005**, *105*, 3842.

4. (a) Denk, M.; Lennon, R.; Hayashi, R.; West, R.; Belyakov, A. V.; Verne, H. P.; Haaland, A.; Wagner, M.; Metzler, N. *J. Am. Chem. Soc.* **1994**, *116*, 2691; (b) West, R.; Sohn, H.; Bankwitz, U.; Calabrese, J., Apeloig, Y., Mueller, T. *J. Am. Chem. Soc.* **1995**, *117*, 11608; (c) Tokitoh, N.; Wakita, K.; Okazaki, R.; Nagase, S.; Schleyer, P. v. R.; Jiao, H. *J. Am. Chem. Soc.* **1997**, *119*, 6951.

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