

## Lithium complexes supported by tripodal diaminebis(aryloxydo) ligands: synthesis and structure.

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The diaminebis(aryloxydo) ligand precursors  $H_2L^1$  and  $H_2L^2$  [ $H_2L^1 = Me_2NCH_2CH_2N(CH_2-4-CMe_2CH_2CMe_3-C_6H_3OH)_2$ ;  $H_2L^2 = Me_2NCH_2CH_2N(CH_2-4-Me-C_6H_3OH)_2$ ] were synthesized by a straightforward single-step Mannich condensation. Their reactions with 2 molar equivalents of MeLi in thf afforded  $[Li_4(\mu-L-\kappa^4O,N,N,O)_2(thf)_2]$  (**1a**,  $L^1$ ; **1b**,  $L^2$ ) and unexpectedly small amounts ( $\sim 9\%$ ) of  $[Li_6(\mu-L-\kappa^4O,N,N,O)_2(\mu^3-Cl)_2(thf)_4]\cdot thf$  (**2a**·thf;  $L^1$ ; **2b**·thf,  $L^2$ ). Stoichiometric reactions of LiCl, MeLi and ligand precursors  $H_2L$  led to the formation of **2a** and **2b** in high yield ( $\sim 80\%$ ). All compounds were characterized by chemical and physical techniques including X-ray crystallography for  $H_2L^1$ ,  $H_2L^2$ , **1b**, **2a** and **2b**.

### Adres publiczny

[http://dx.doi.org/ 10.1039/C1DT11498K](http://dx.doi.org/10.1039/C1DT11498K)

### Strona internetowa wydawcy

<https://www.rsc.org/>