

Supplementary Material (ESI) for Dalton Transactions
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Supporting Information

for

Can the hexamethylhydrazinium dication

$[\text{Me}_3\text{N-NMe}_3]^{2+}$ be prepared?

by

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(5 pages)

Figure S1. ^1H NMR spectrum of $[\text{N}_2\text{Me}_5][\text{OTf}]$, **2**, in CD_3CN .

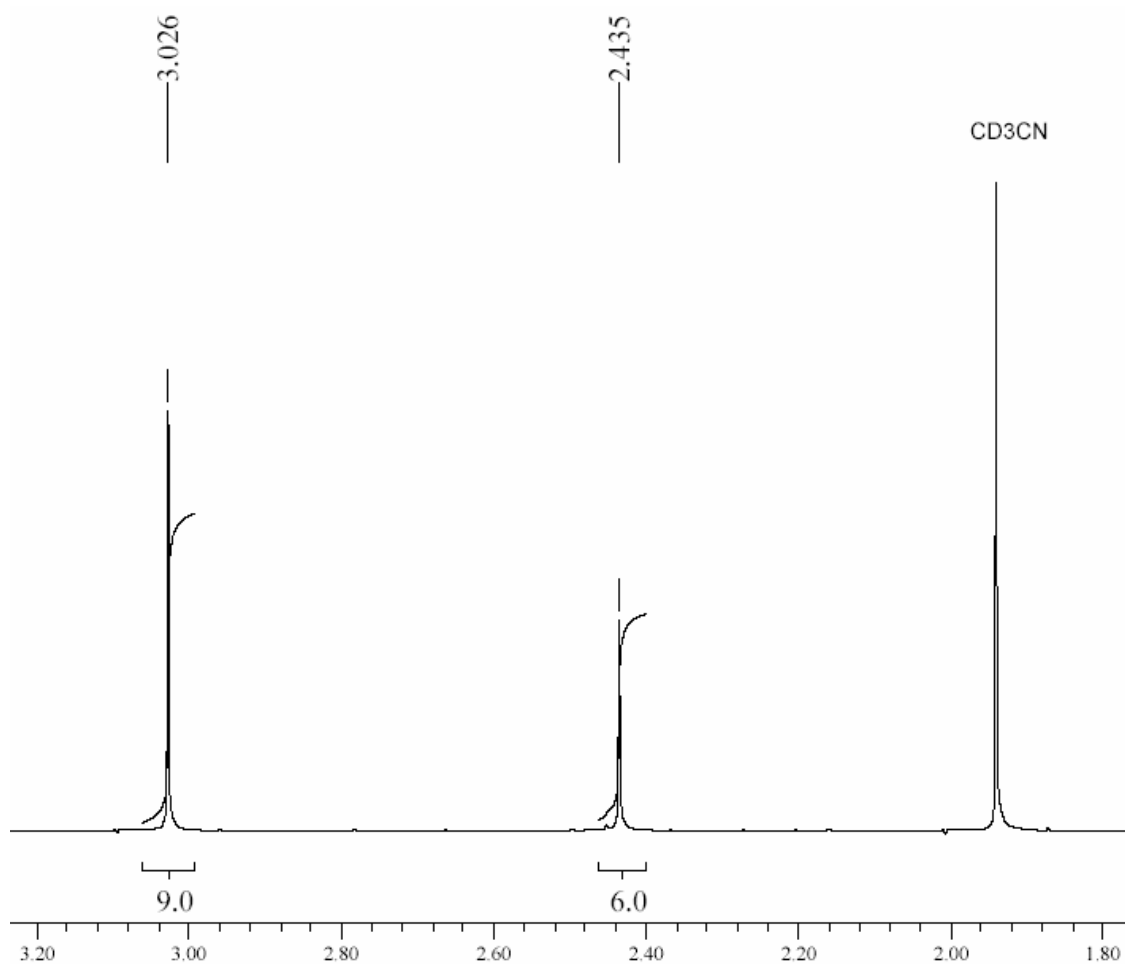


Figure S2. ^1H NMR spectra of (a) $[(\text{Et}_3\text{Si})\text{Me}_4\text{N}_2][\text{CHB}_{11}\text{Cl}_{11}]$, **4**, (b) $[(\text{Et}_3\text{Si})_2\text{Me}_4\text{N}_2][\text{CHB}_{11}\text{Cl}_{11}]_2$, **5**, dissolved in SO_2 with CD_2Cl_2 as external reference taken at -40°C .

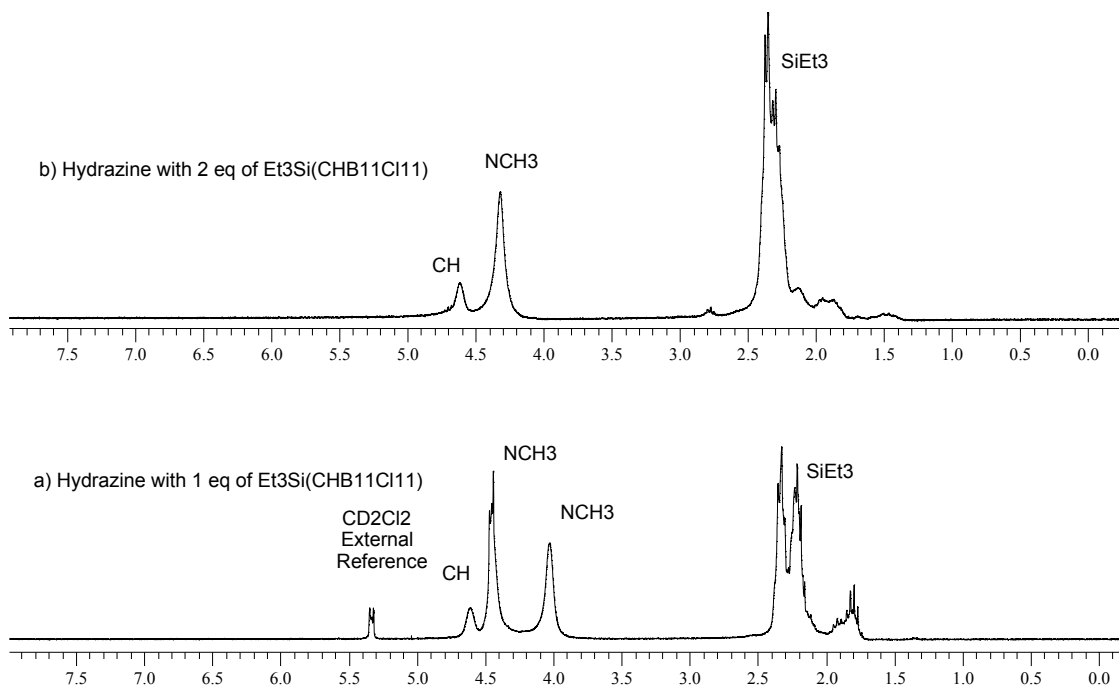


Figure S3. ^1H NMR spectrum of $[\text{Me}_6\text{N}_2][\text{CHB}_{11}\text{Cl}_{11}]_2$, **3**, dissolved in CD_2Cl_2 at -40 $^\circ\text{C}$.

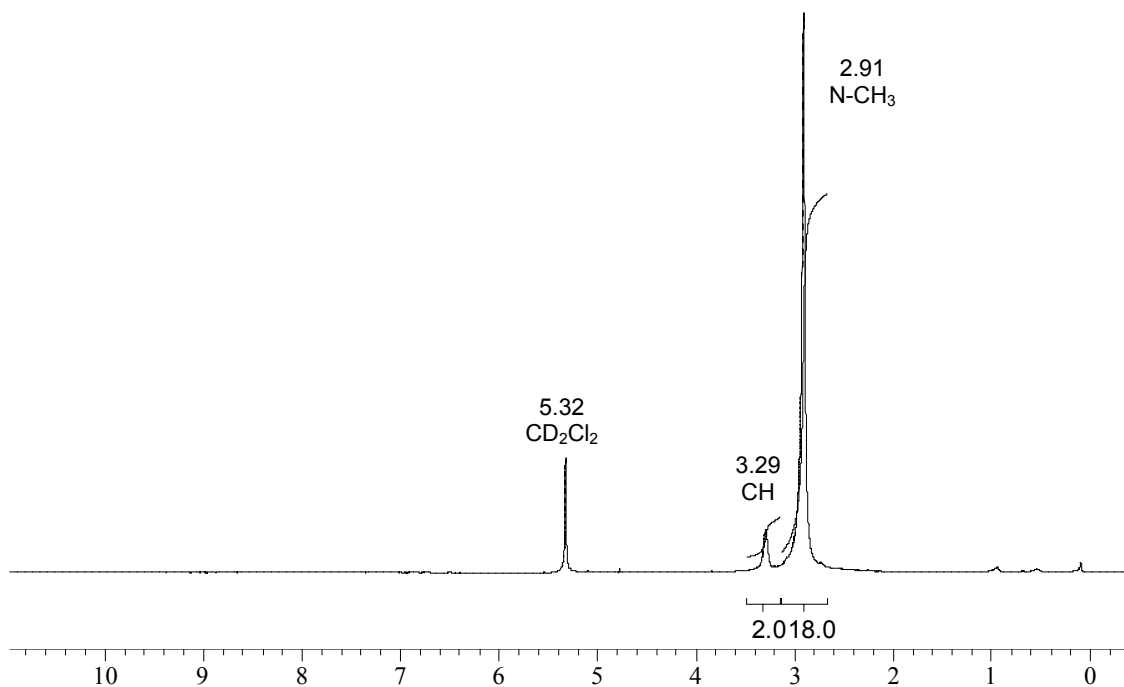


Figure S4. ^1H NMR spectrum of $[\text{H}_2\text{Me}_4\text{N}_2][\text{CHB}_{11}\text{Cl}_{11}]_2$, **6**, dissolved in CD_2Cl_2 .

