

Anion variation on a cobalt(III) complex of Salen-type ligand tethered by four quaternary ammonium salts for CO₂/epoxide copolymerization

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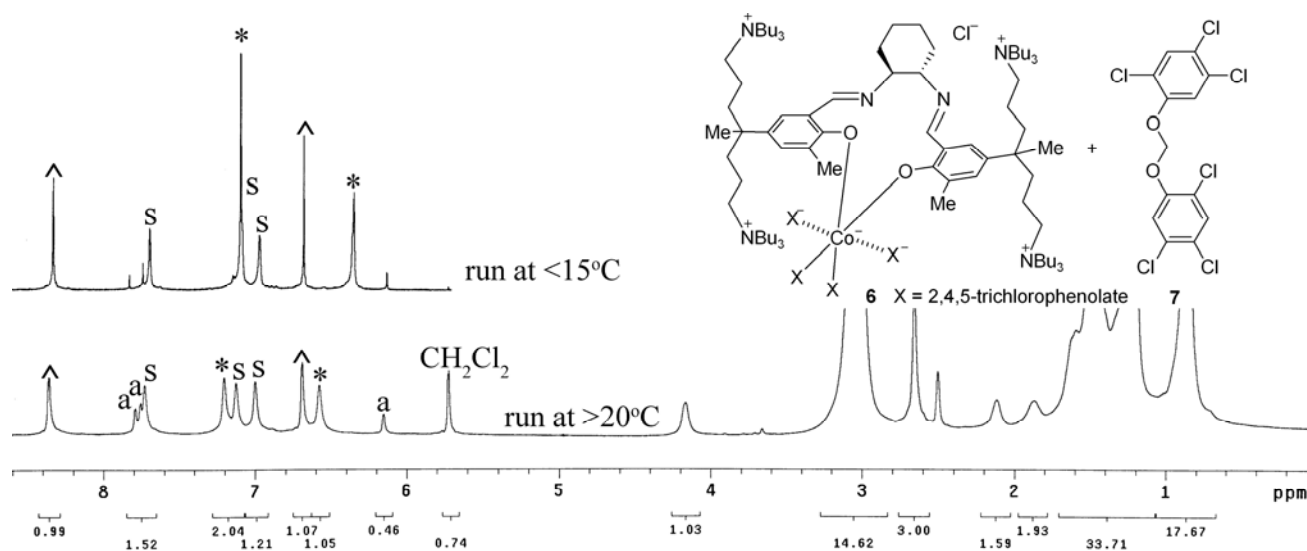
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Supplementary Information

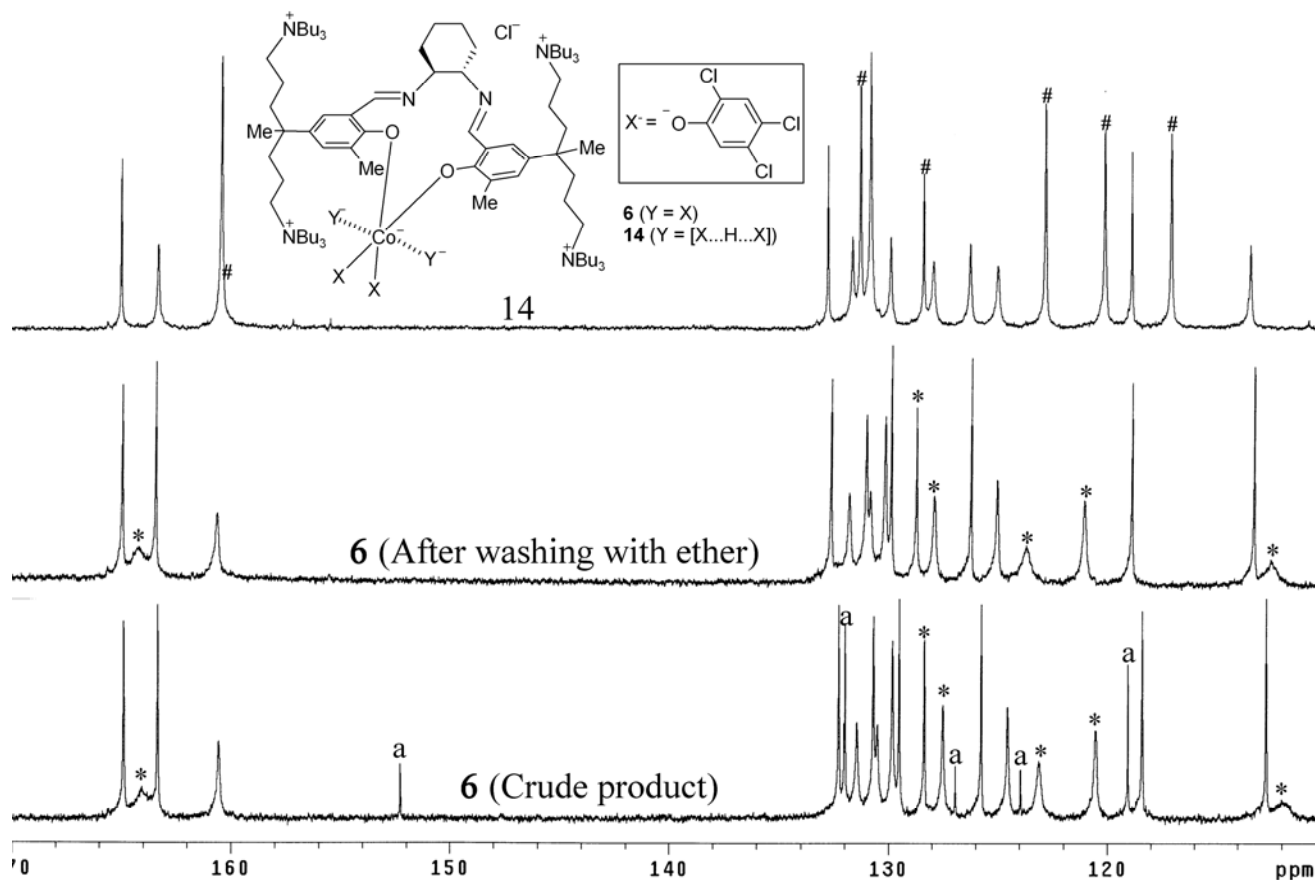
<The ^1H NMR spectra of crude product of 6 showing formation of CH_2Cl_2 -attack product 7>

("s" signals for Salen-unit; "^" signals for coordinated X; "*" signals for scrambling X; "a" signals for CH_2Cl_2 -attack product 7).



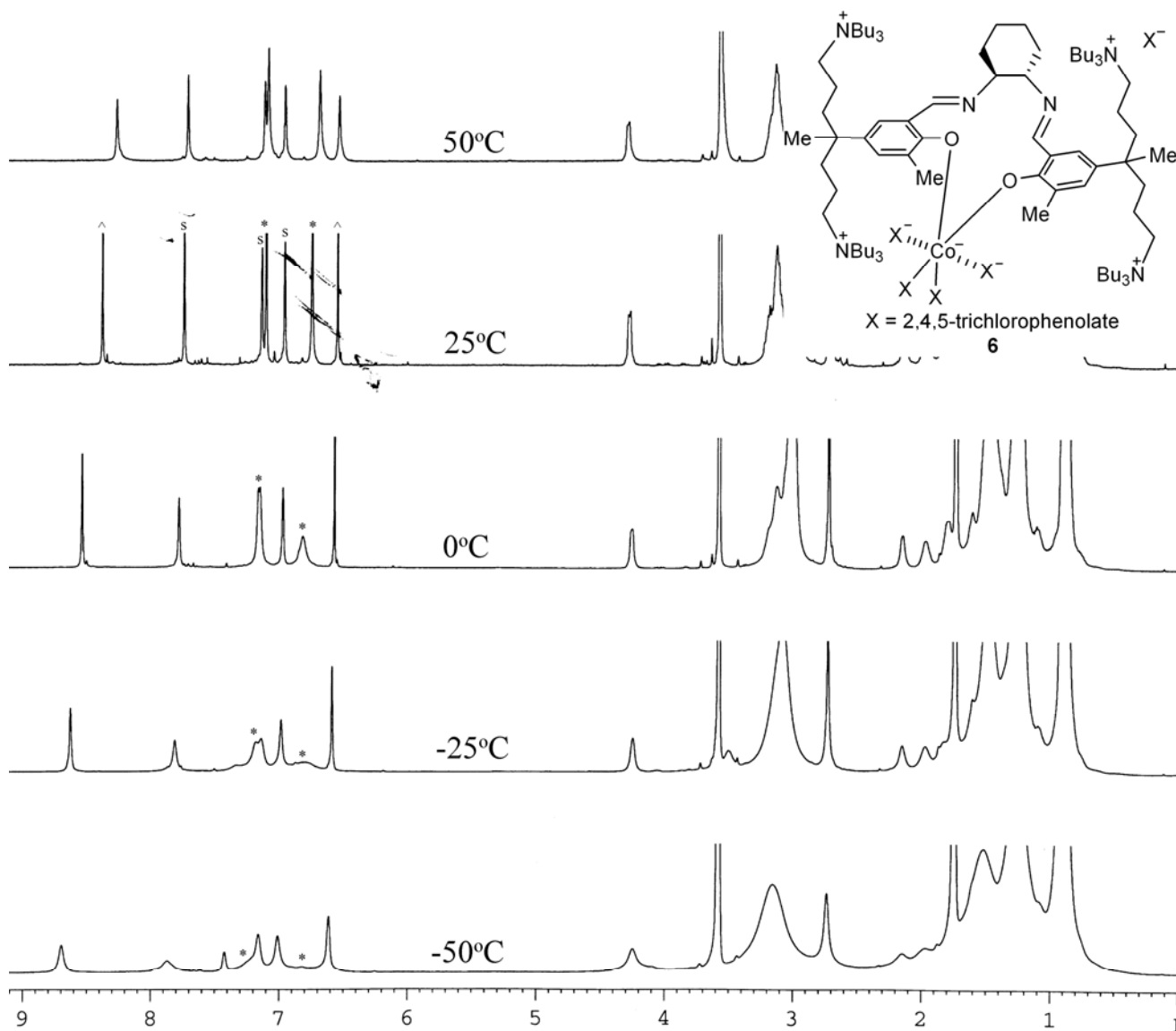
<The ^{13}C NMR spectra of 2,4,5-trichlorophenolate (X) complexes 6 and 14 in THF-d_6 >

("*" signals for scrambling X; "#" signals for $[\text{X}\dots\text{H}\dots\text{X}]$; "a" signals for CH_2Cl_2 -attacking product 7).



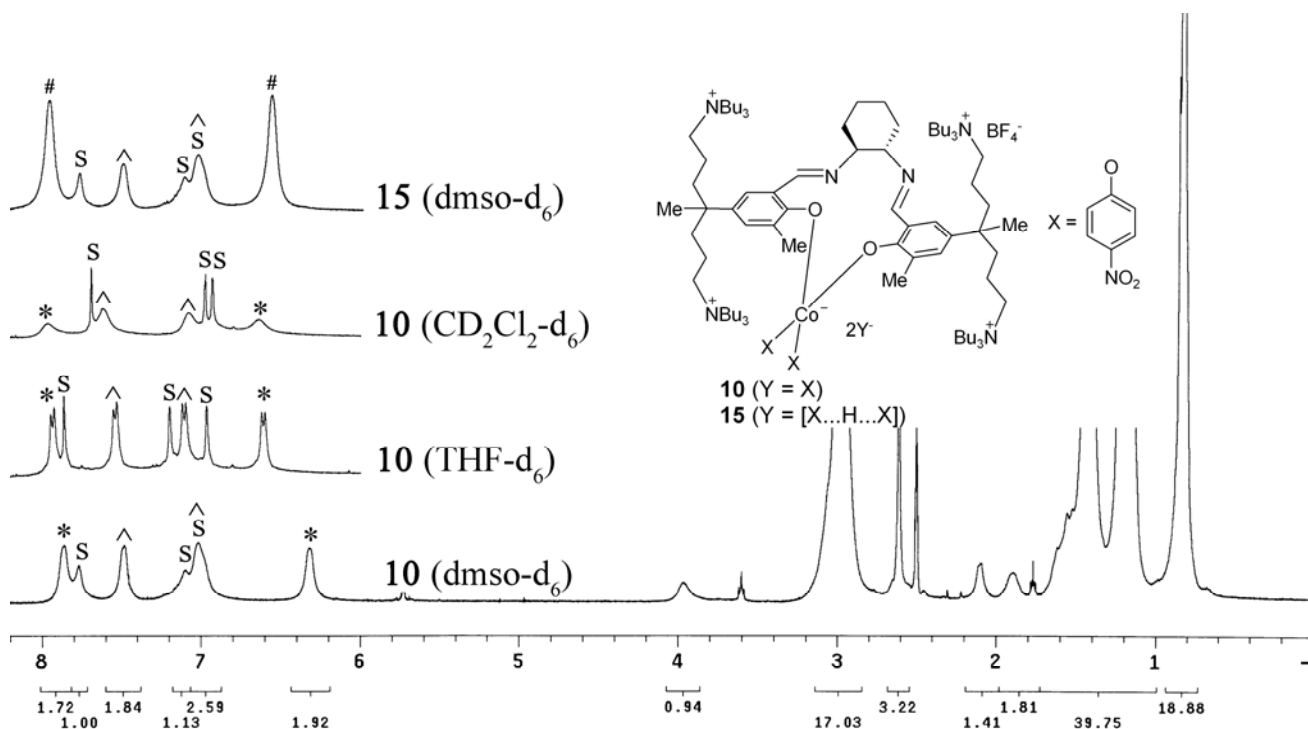
<The variable temperature ^1H NMR spectra of **6**>

("s" signals for Salen-unit; "^" signals for coordinated X; "*" signals for scrambling X)



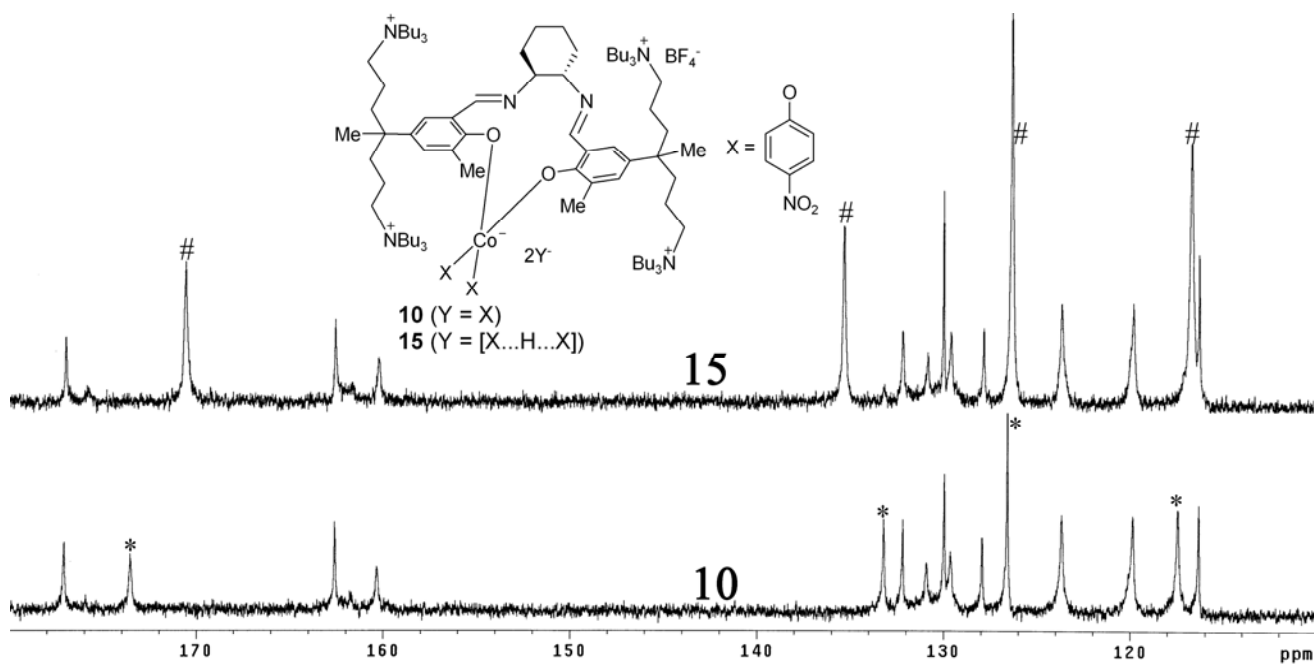
<The ^1H NMR spectra of 4-nitrophenolate (X) complexes 10 and 15>

("s" signals for Salen-unit; "^" signals for coordinated X; "*" signals for uncoordinated X; "#" signals for $[\text{X}\dots\text{H}\dots\text{X}]$).

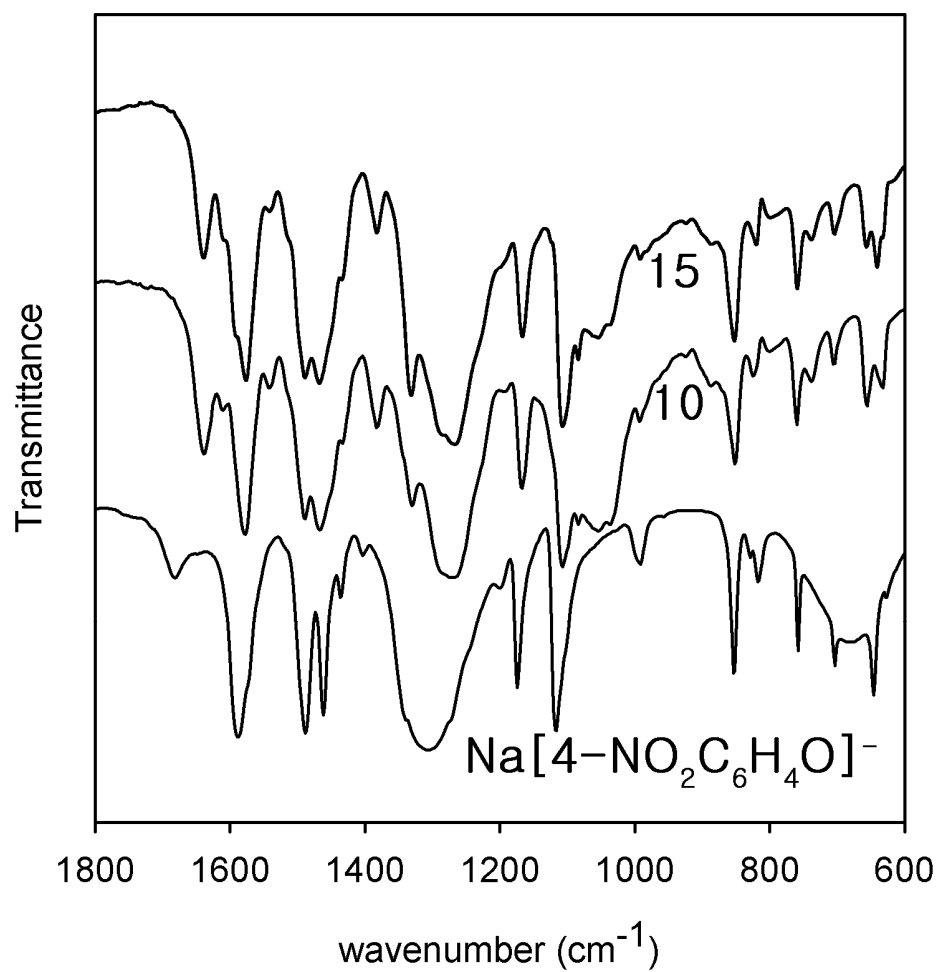


< ^{13}C NMR spectra (aromatic region) of 4-nitrophenolate (X) complexes 10 and 15 in dms $-\text{d}_6$ >

("*" signals for uncoordinated X; "#" signals for $[\text{X}\dots\text{H}\dots\text{X}]$)



<The IR spectra of 10, 15, and sodium 4-nitrophenolate >



<The obtained viscous polymerization solution and the isolated resin (entry 9 in Table 1)>

