

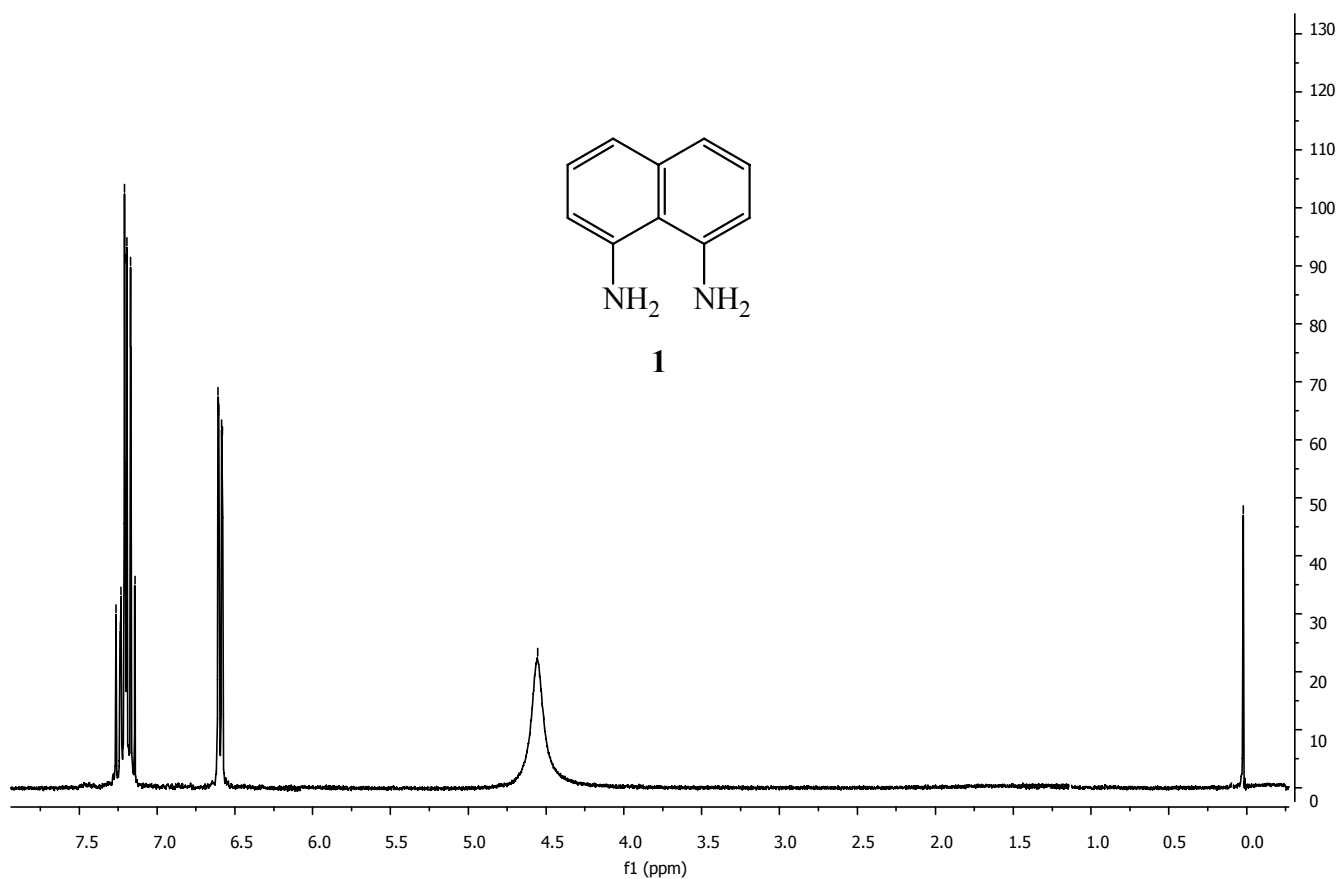
SUPPORTING INFORMATION

Basicity and bulkiness effect of 1,8-diaminonaphthalene, 8-aminoquinoline and their alkylated derivatives on the different efficiency of η^5 -C₅H₅ and η^5 -C₅Me₅ ruthenium precatalysts in allylic etherification reactions.

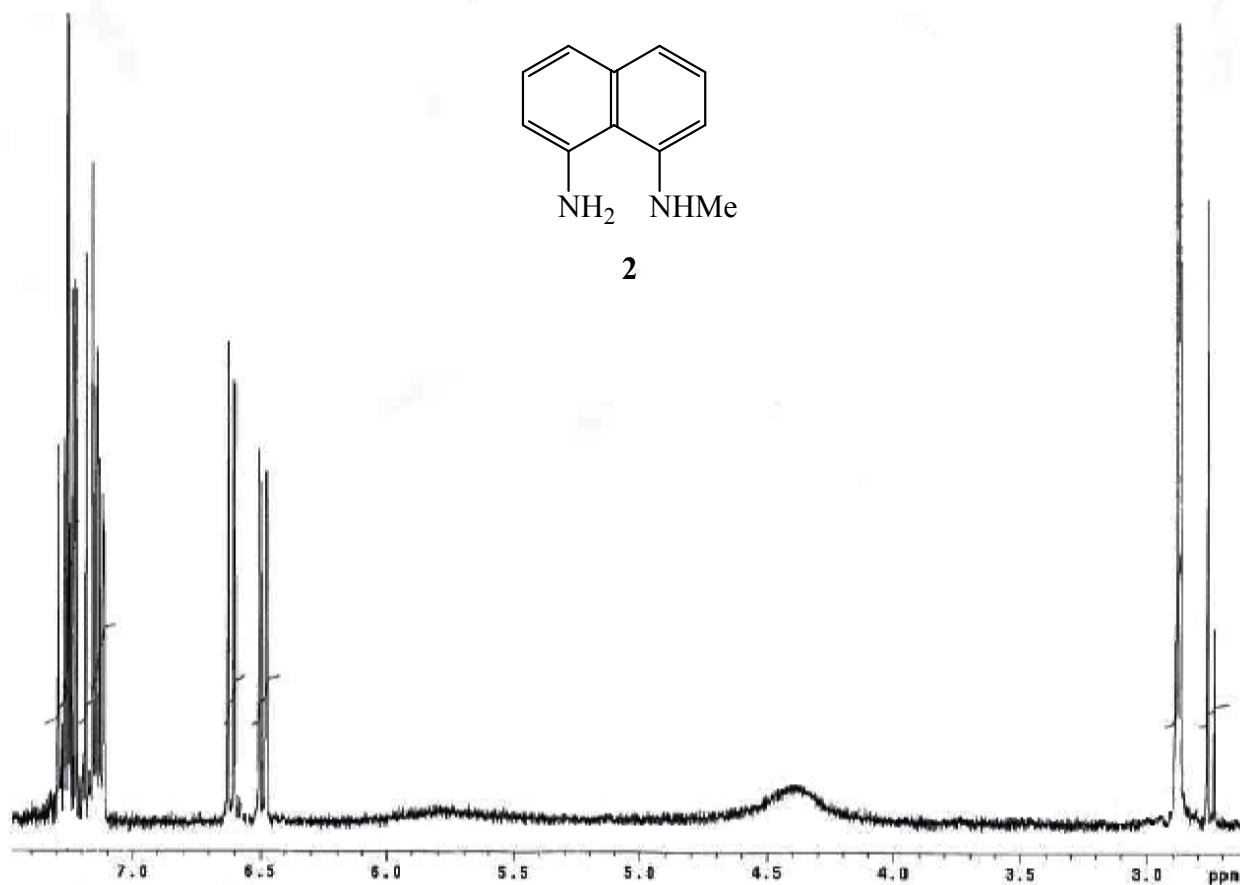
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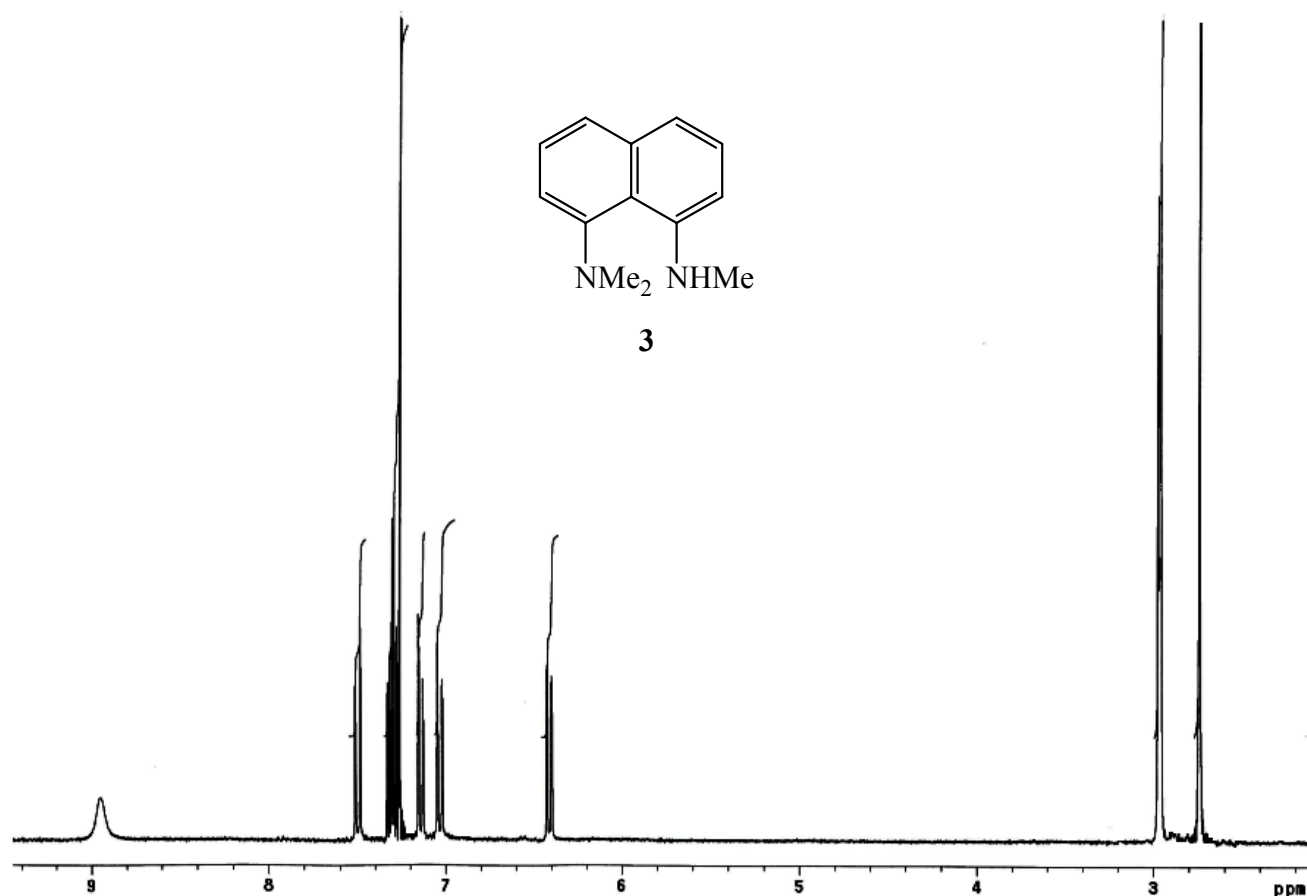
e-mail: ffaraone@unime.it



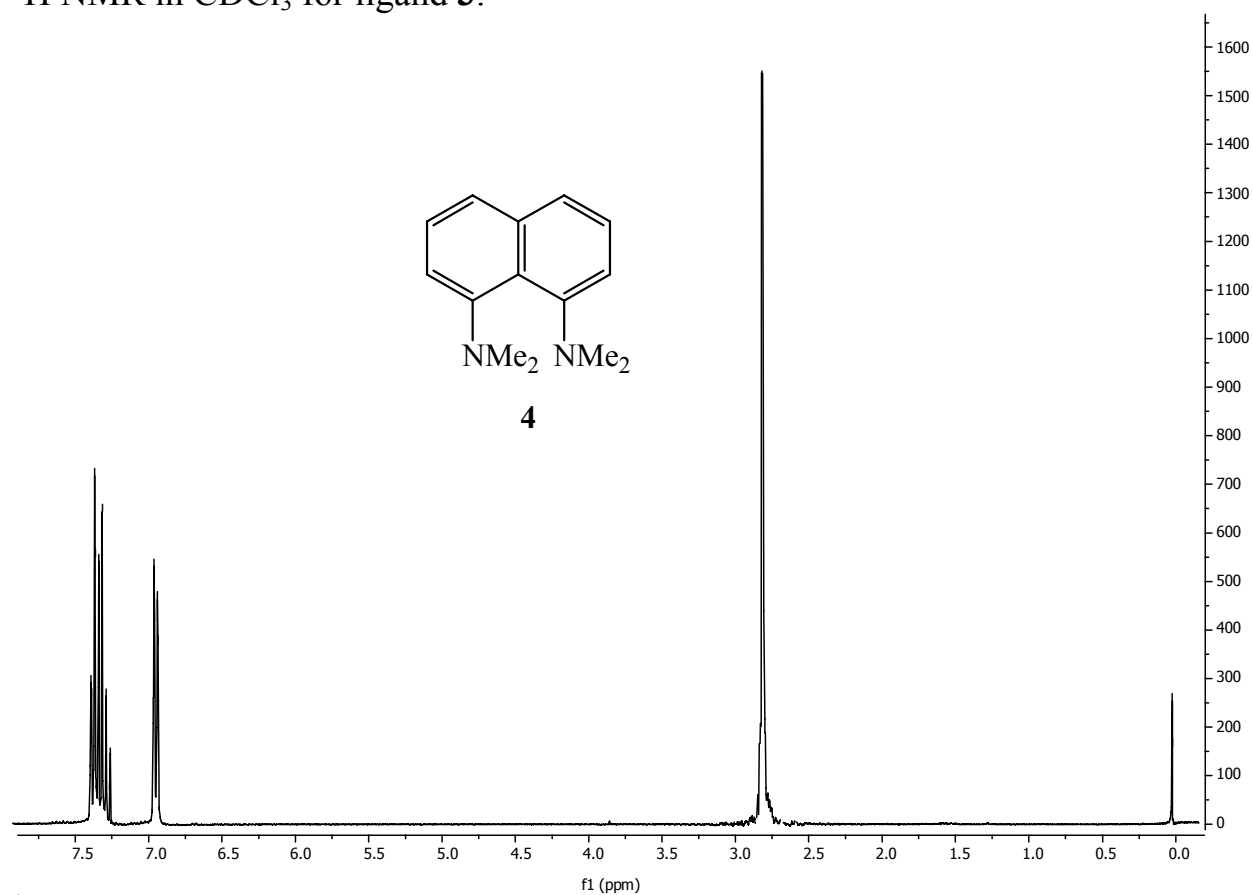
¹H NMR in CDCl₃ for ligand **1**.



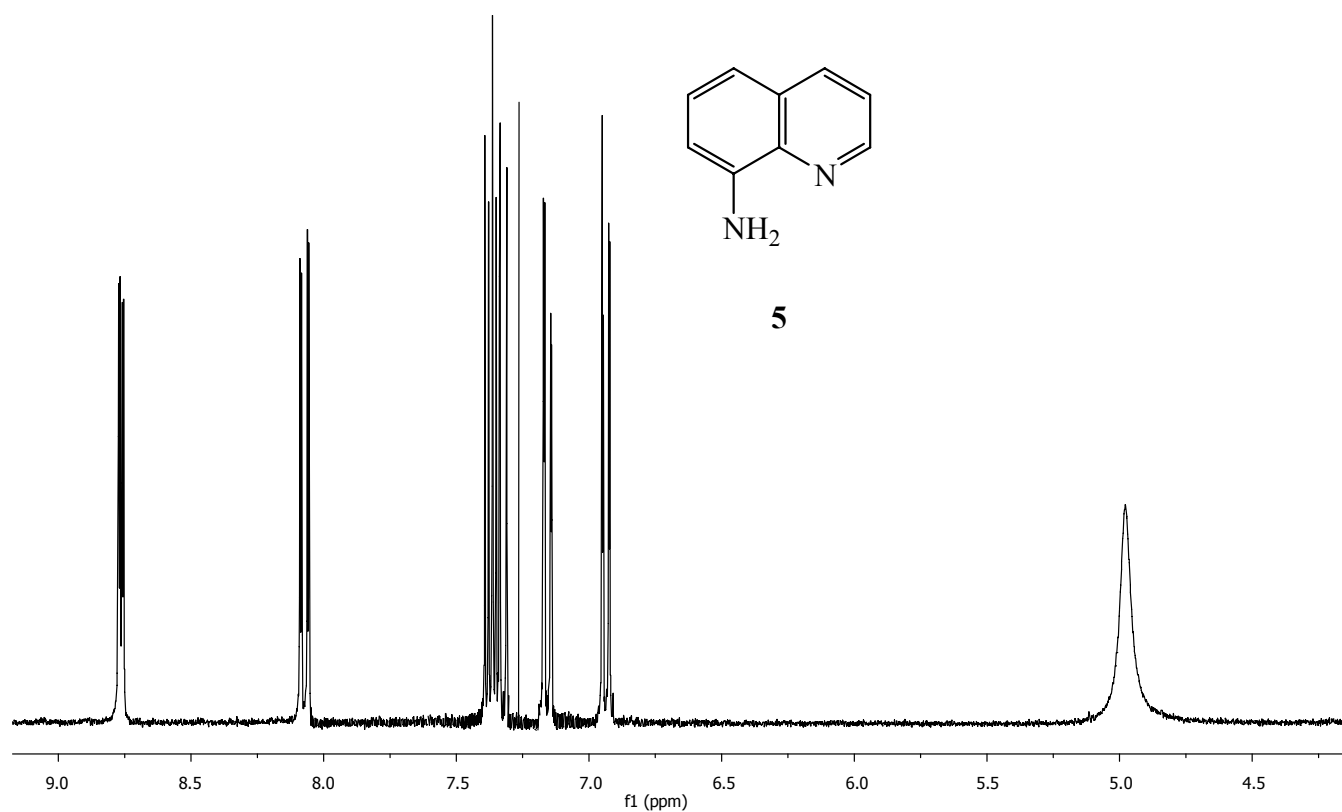
¹H NMR in CDCl₃ for ligand **2**.



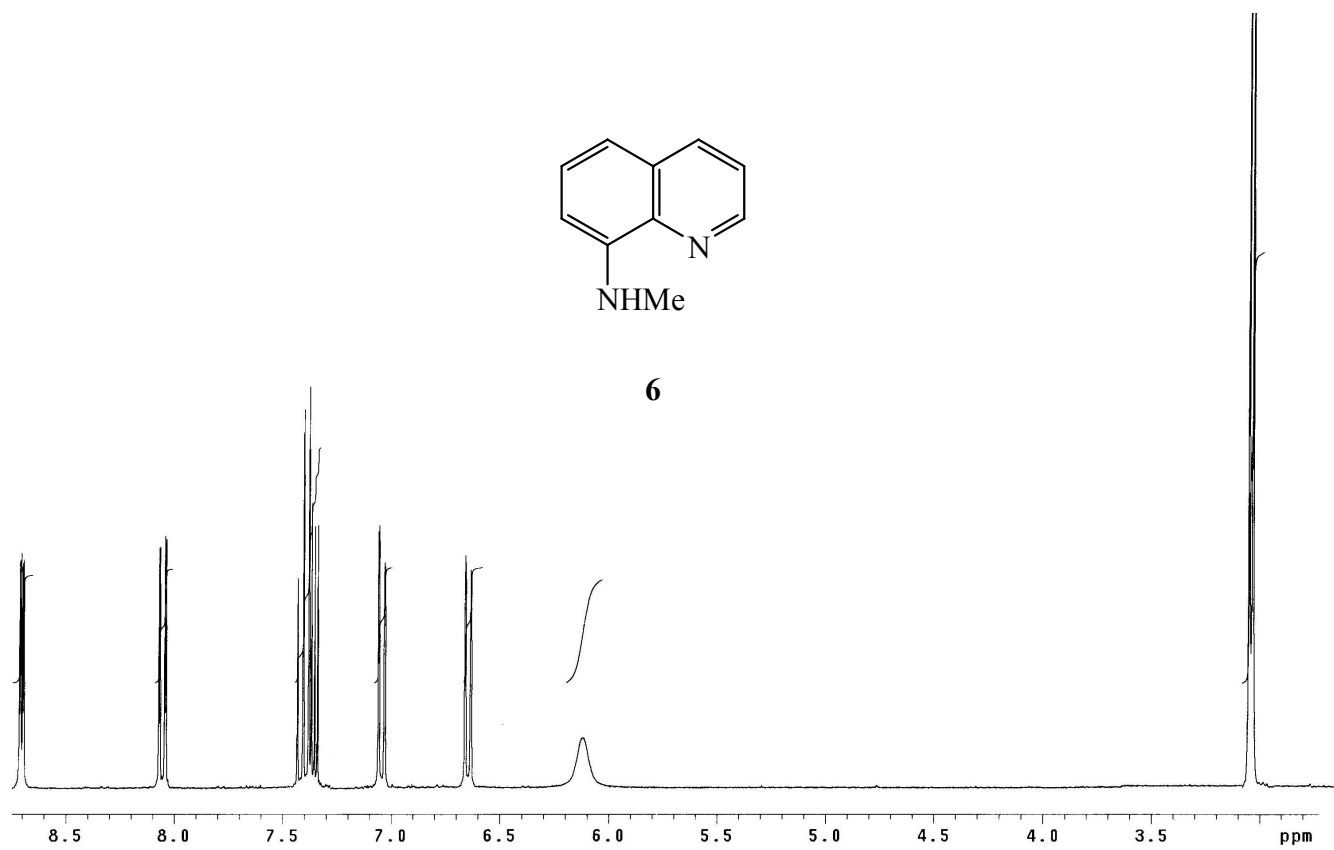
¹H NMR in CDCl₃ for ligand **3**.



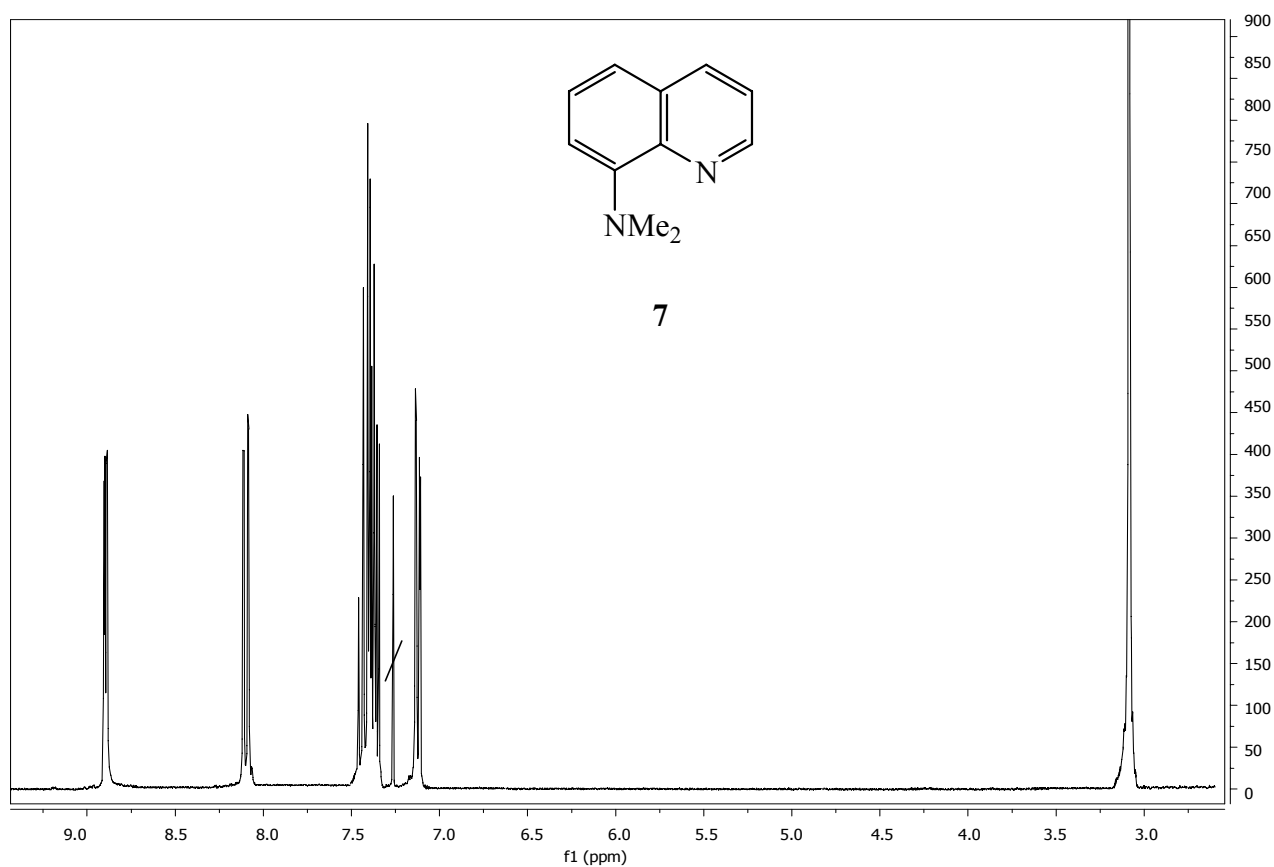
¹H NMR in CDCl₃ for ligand **4**.



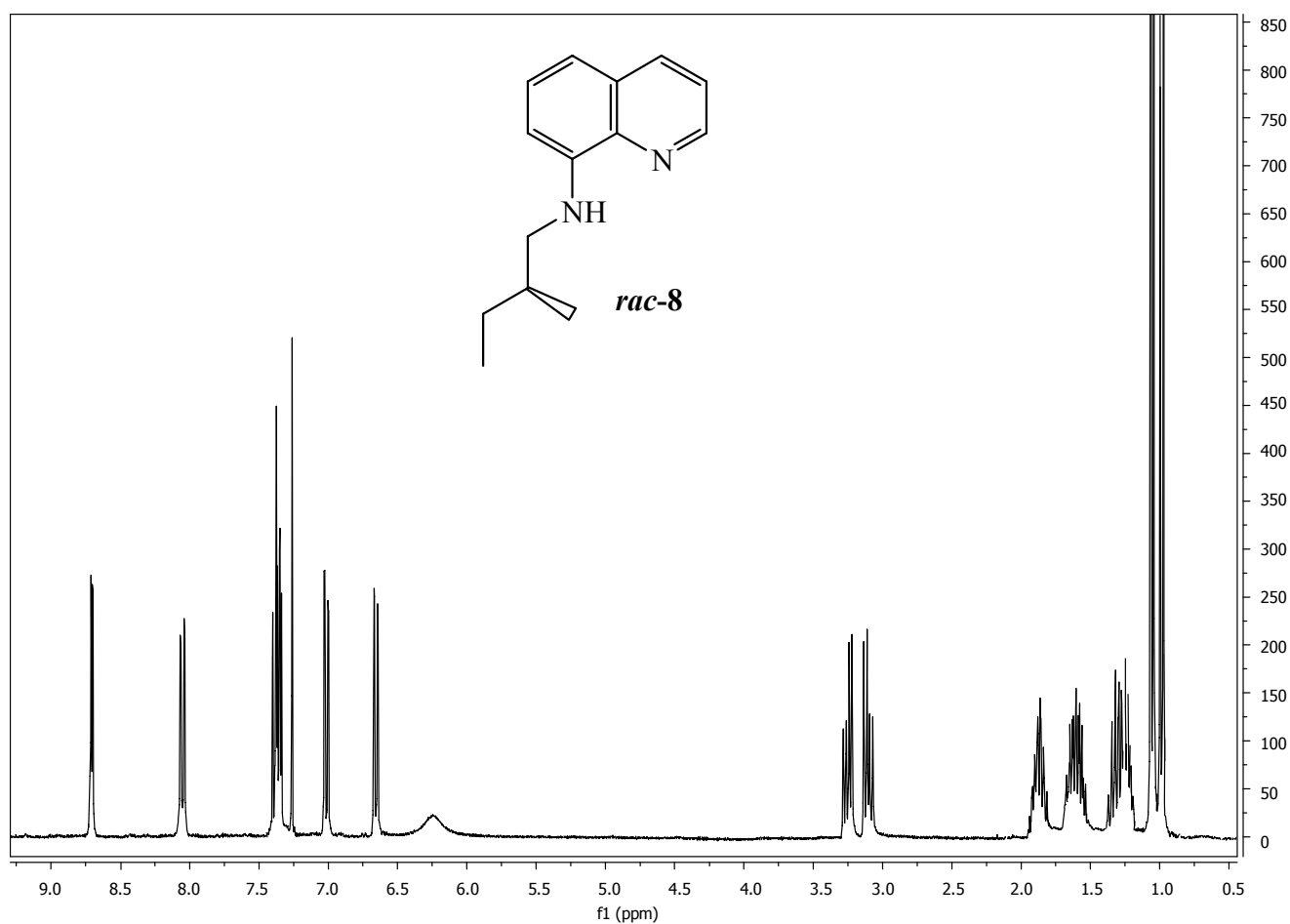
^1H NMR in CDCl_3 for ligand **5**.



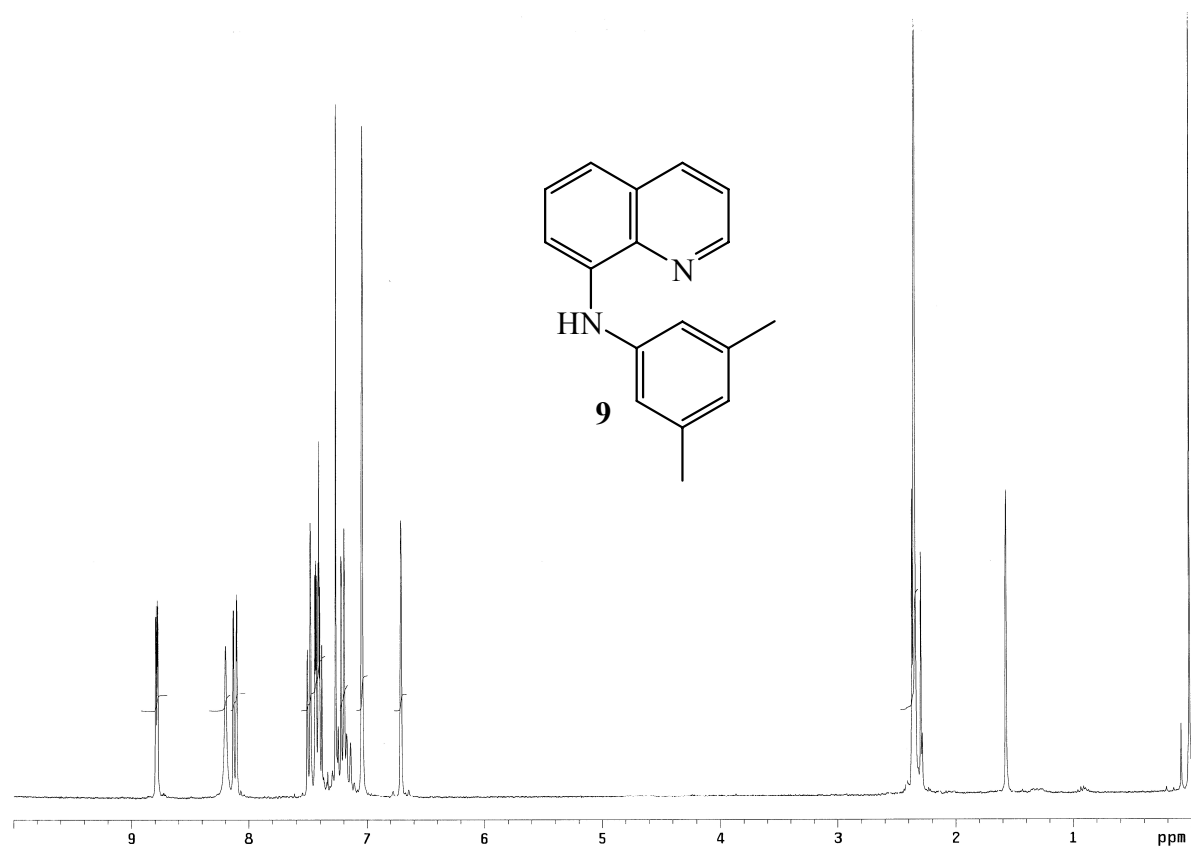
^1H NMR in CDCl_3 for ligand **6**.



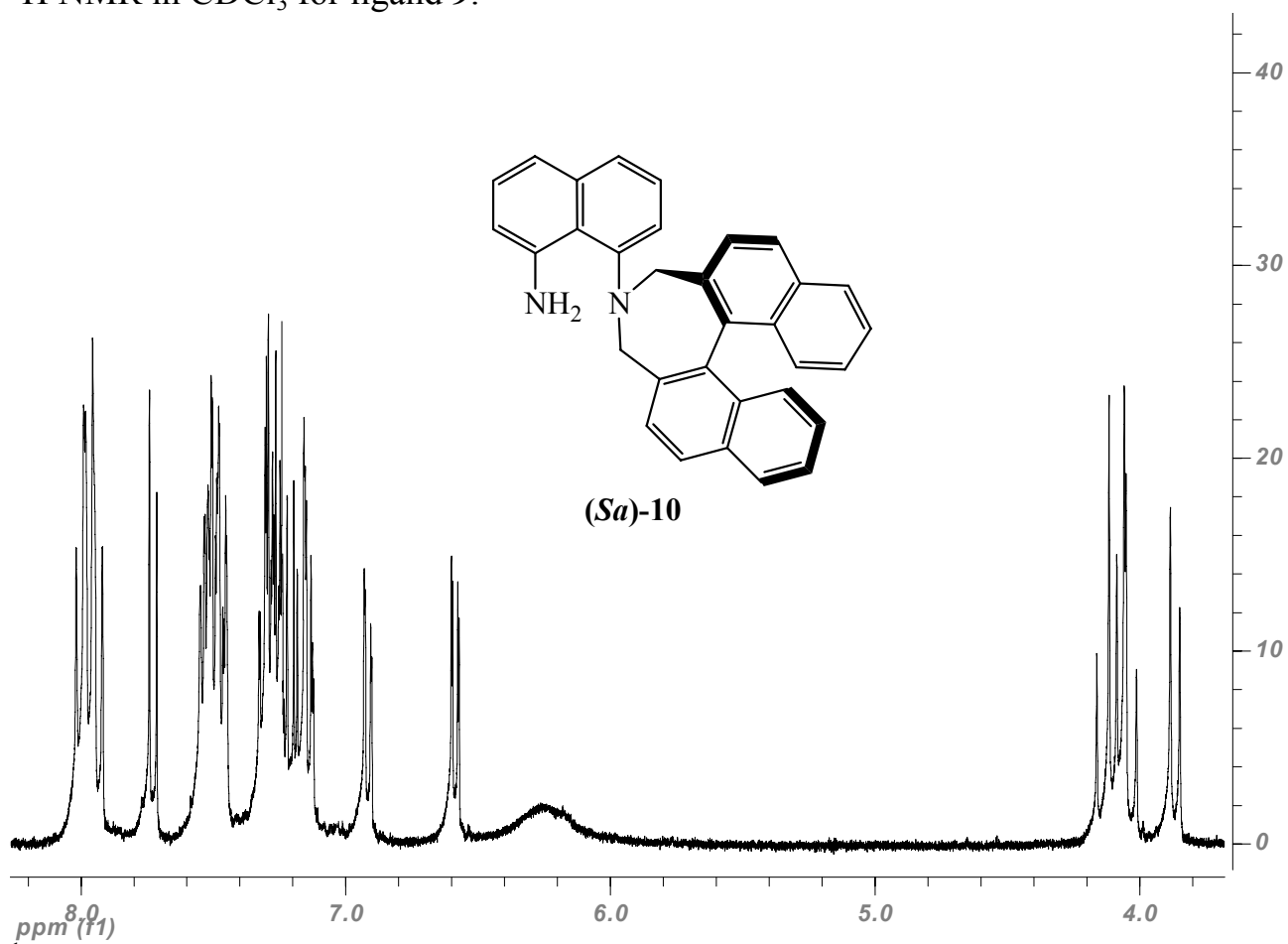
^1H NMR in CDCl_3 for ligand **7**.



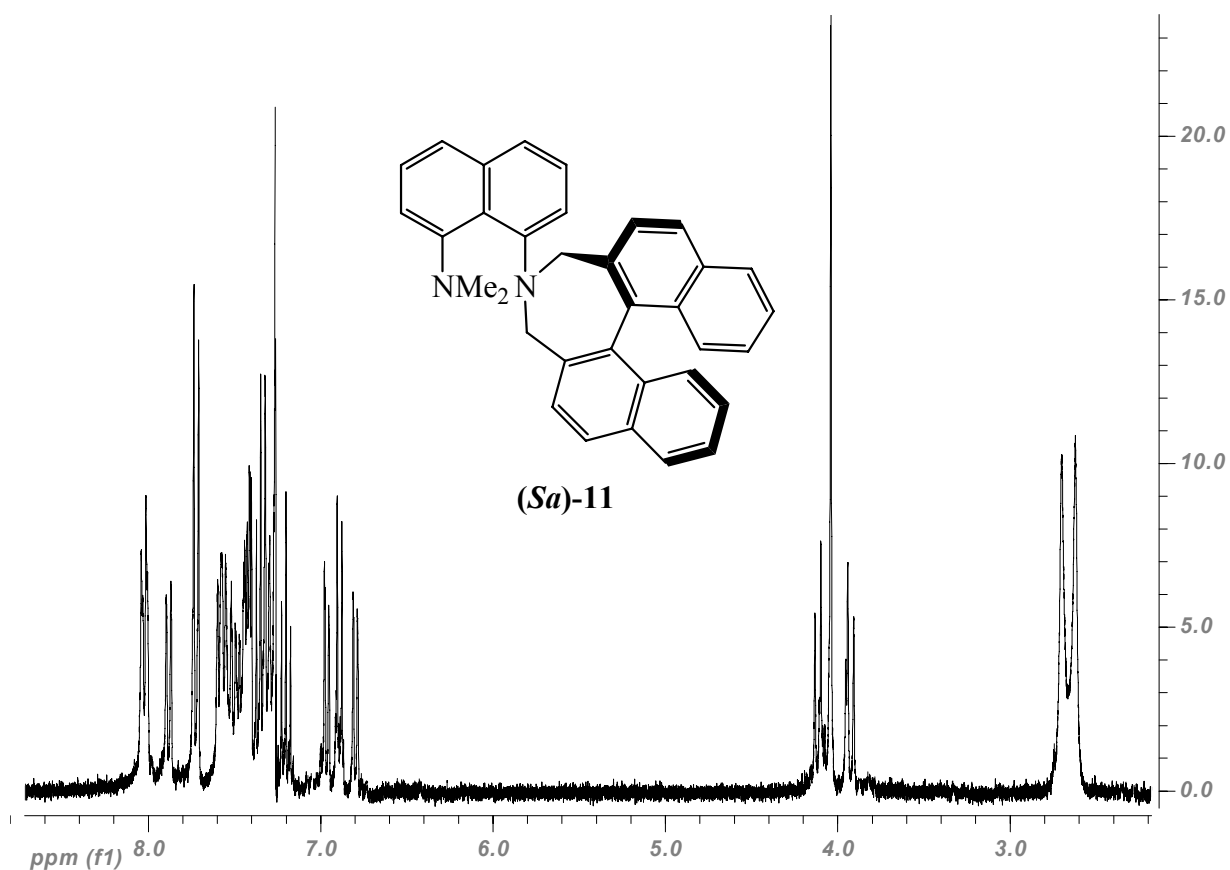
^1H NMR in CDCl_3 for ligand **8**.



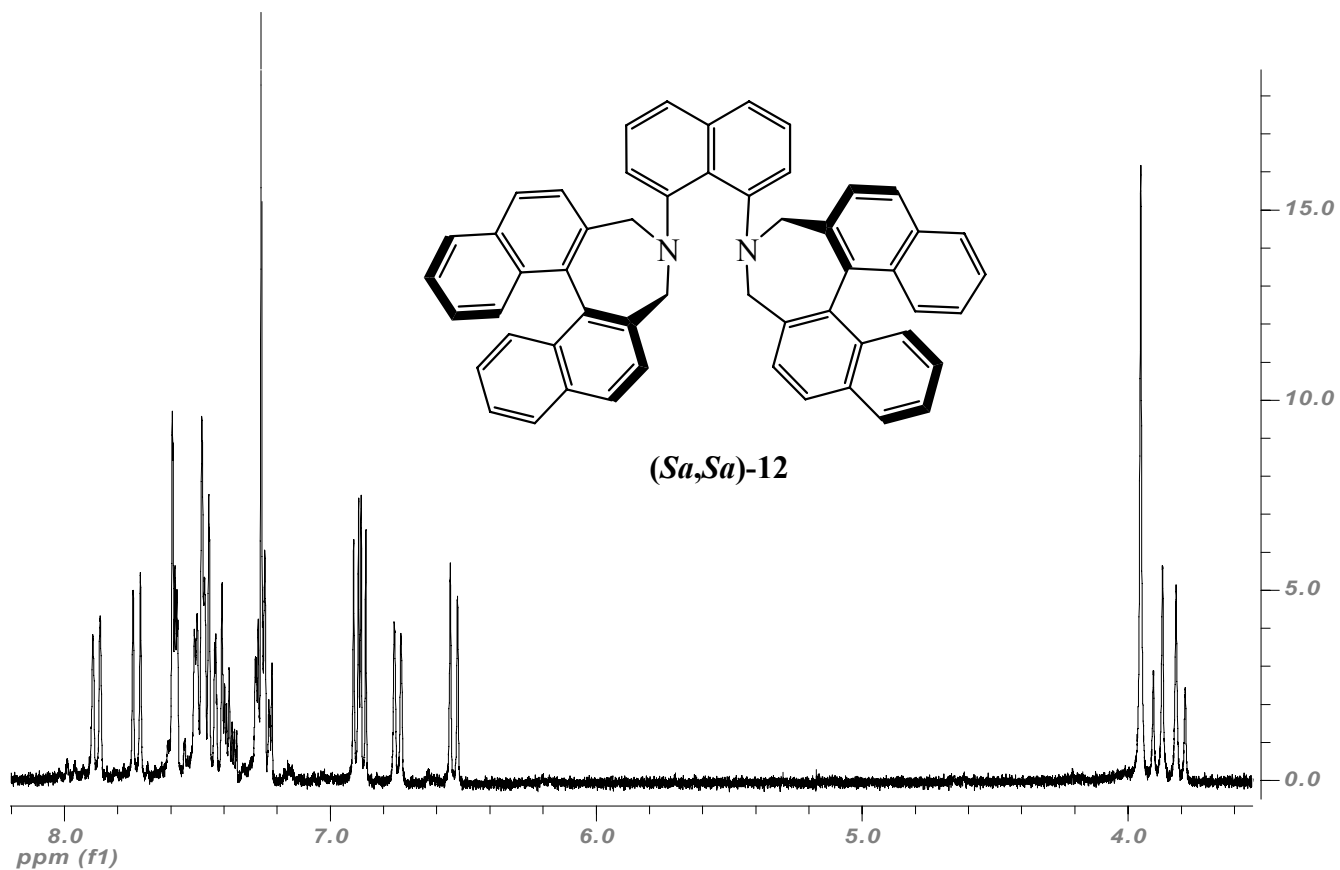
¹H NMR in CDCl₃ for ligand **9**.



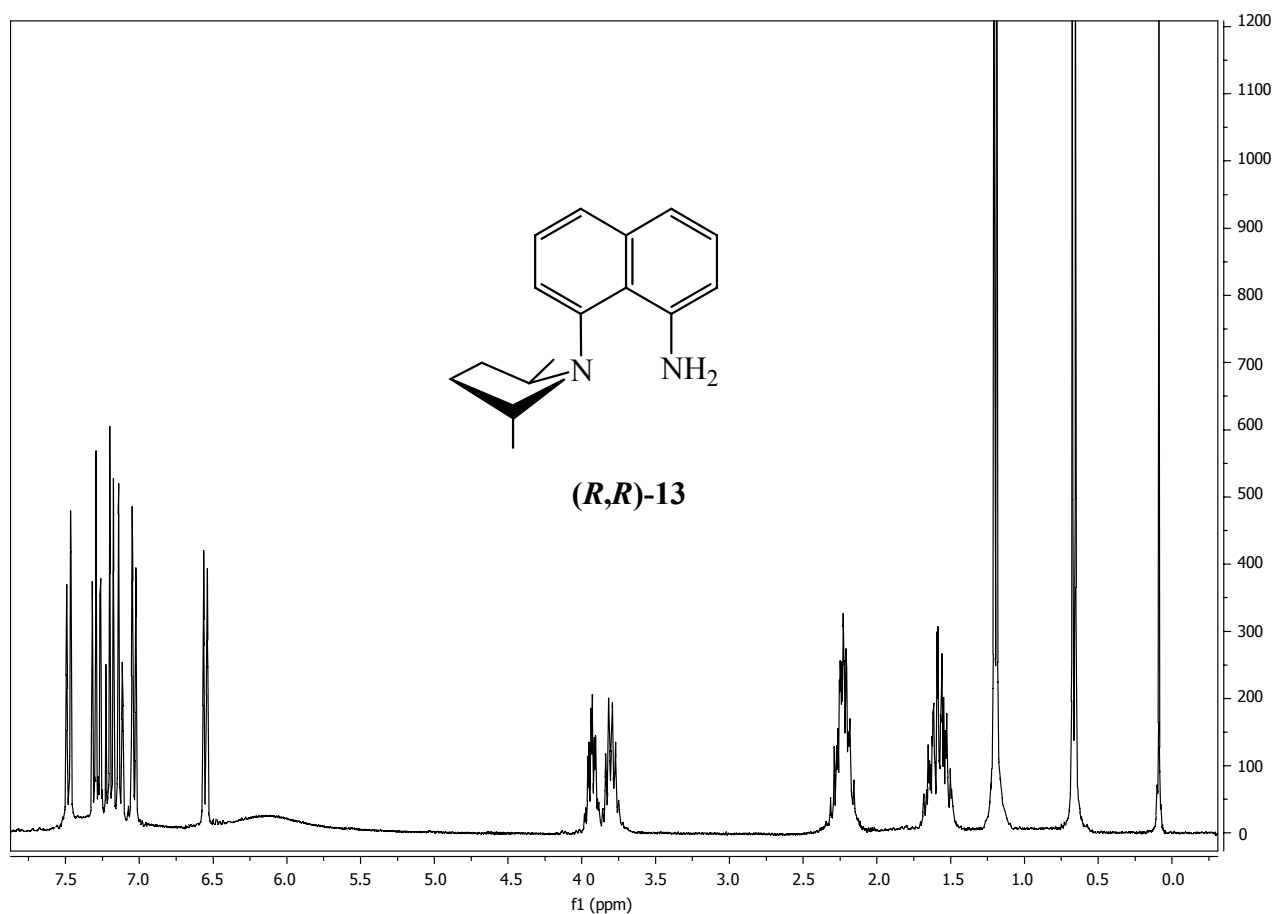
¹H NMR in CDCl₃ for ligand **10**.



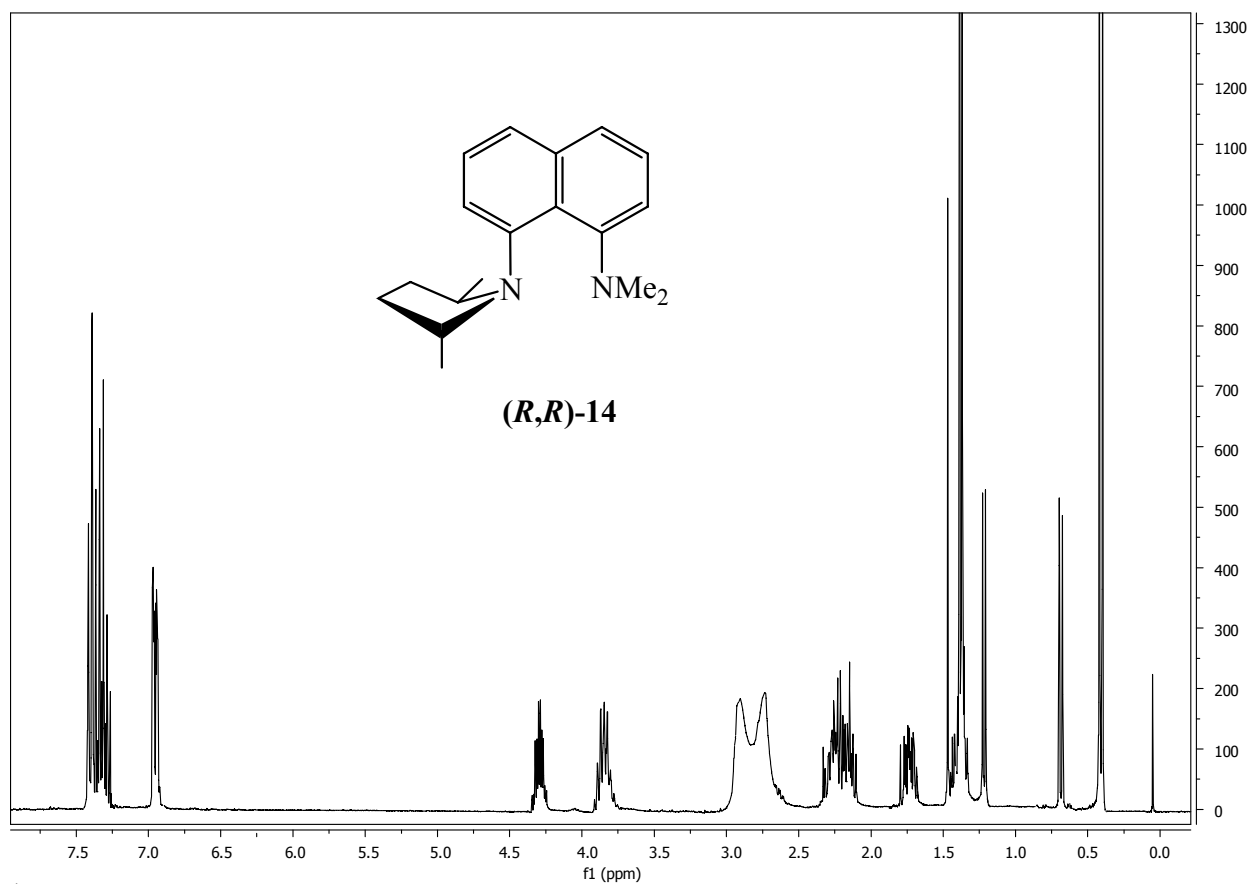
^1H NMR in CDCl_3 for ligand **11**.



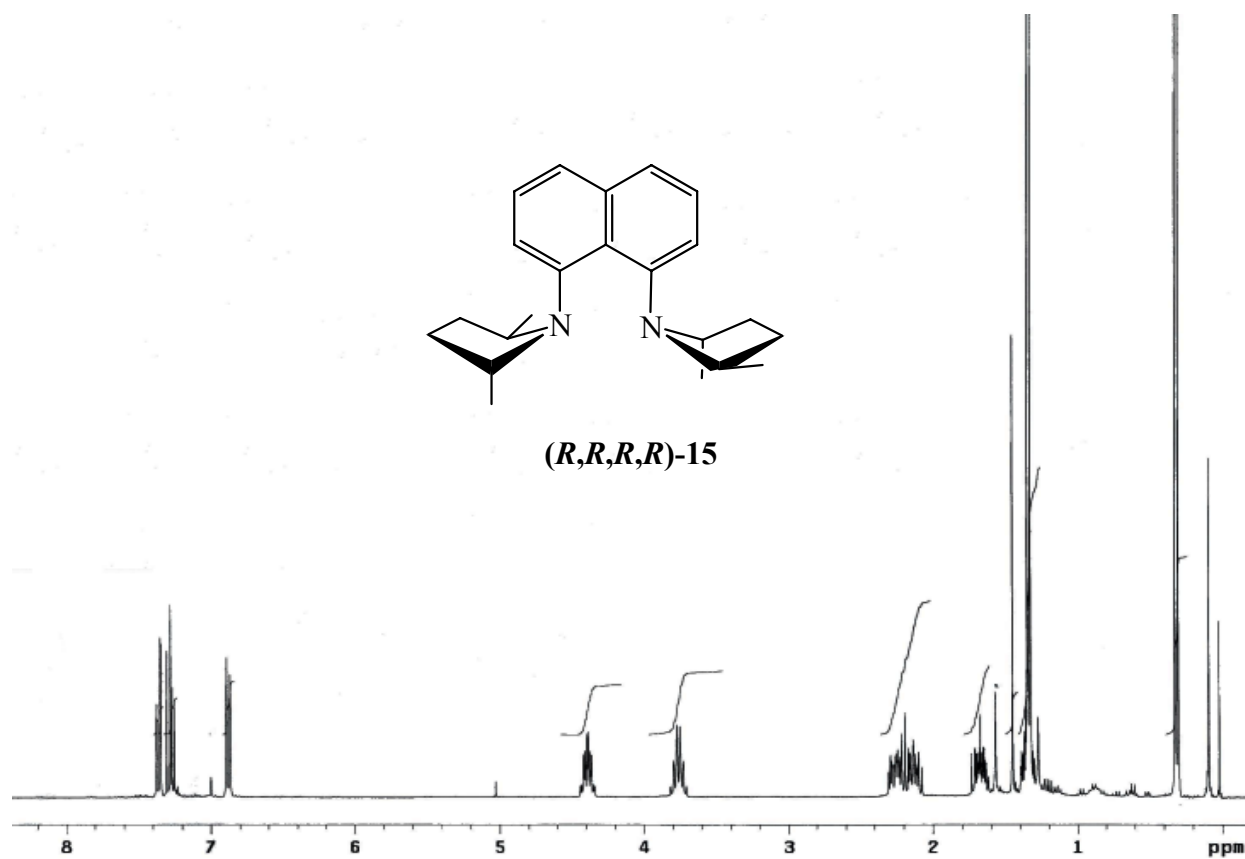
^1H NMR in CDCl_3 for ligand **12**.



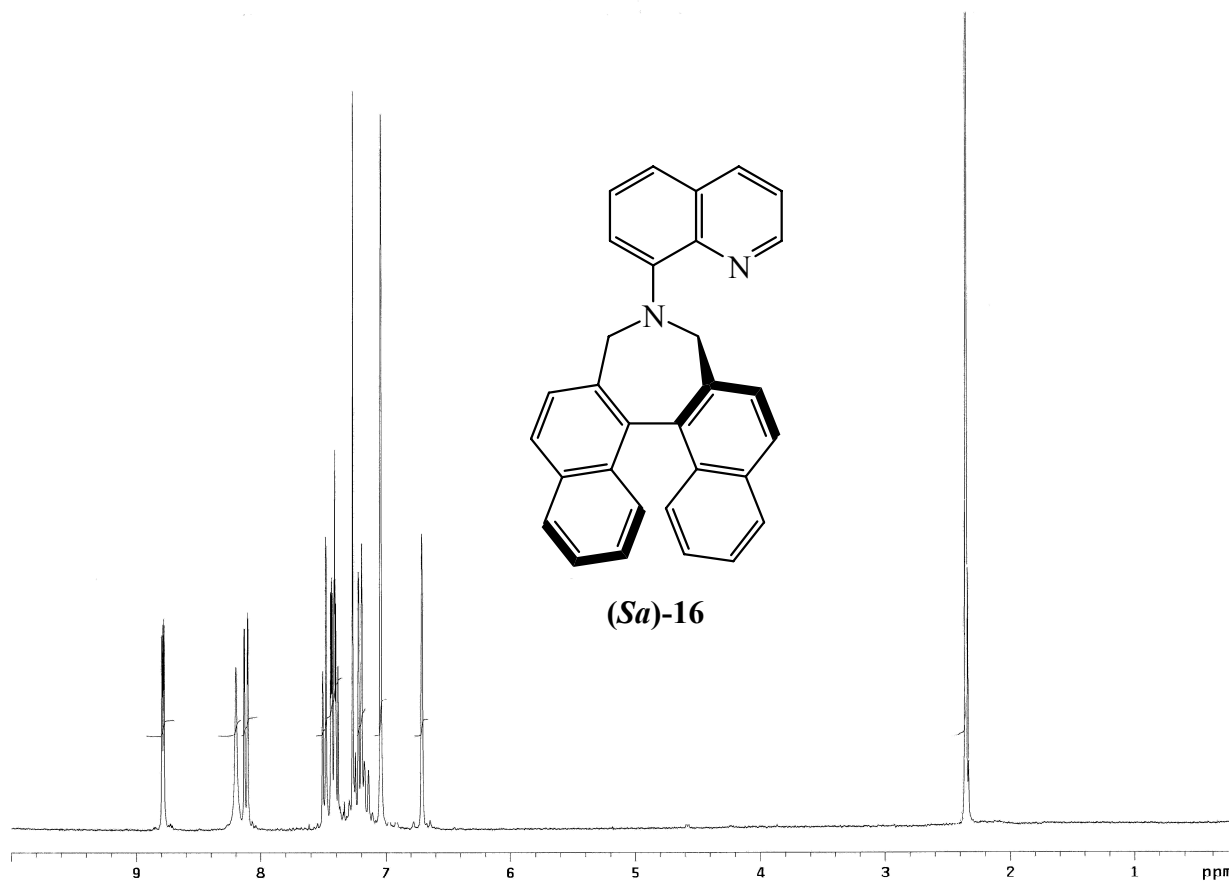
^1H NMR in CDCl_3 for ligand **13**.



^1H NMR in CDCl_3 for ligand **14**.



^1H NMR in CDCl_3 for ligand **15**.



^1H NMR in CDCl_3 for ligand **16**.

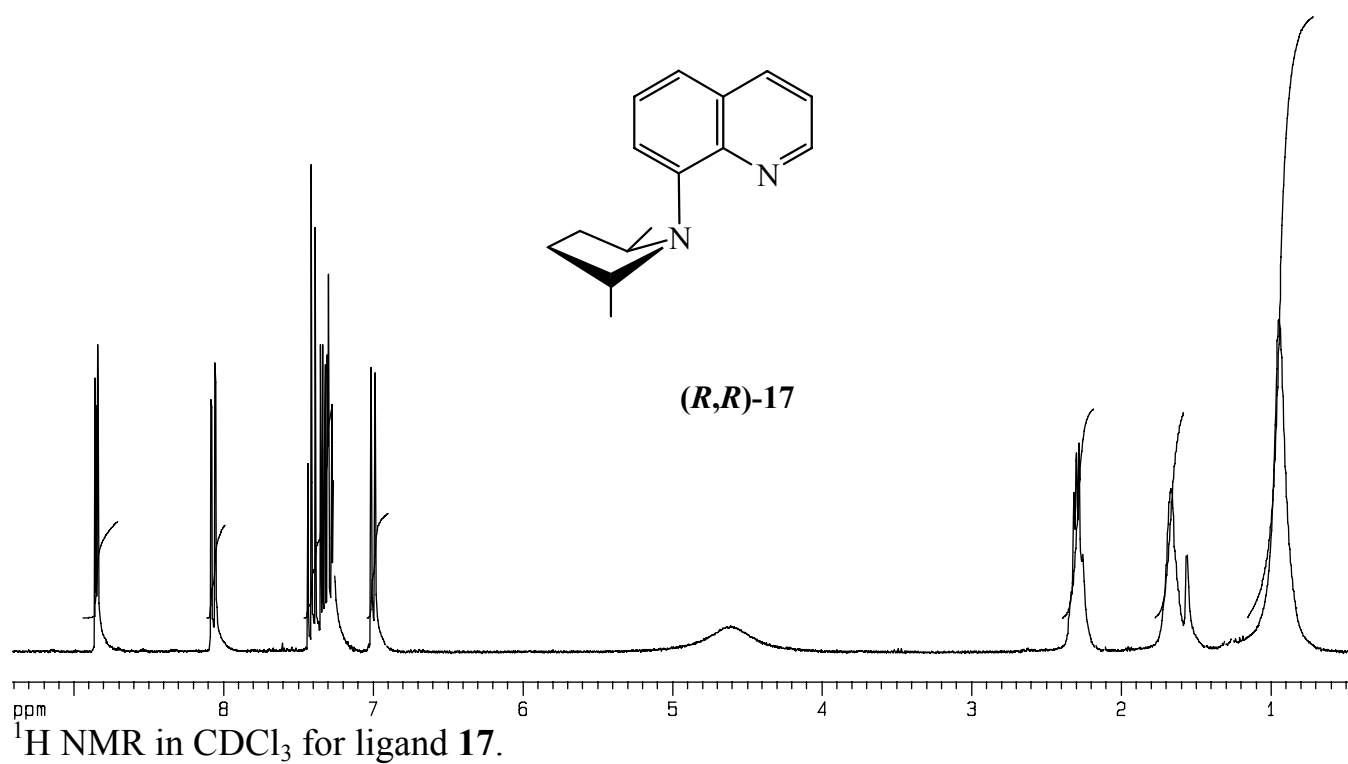


Table 2. ee values with $[\text{Ru}(\eta^5\text{-C}_5\text{R}_5)(\text{NCMe})(\text{N,N})]\text{PF}_6$
 precatalysts (N,N=**10-17**)

Entry	Ligand	Ee (%)	
		$\text{Ru}(\eta^5\text{-C}_5\text{H}_5)$	$\text{Ru}(\eta^5\text{-C}_5\text{Me}_5)$
1	(<i>S_a</i>)- 10	5 (<i>R</i>)	4 (<i>R</i>)
2	(<i>S_a</i>)- 11	7 (<i>R</i>)	5 (<i>R</i>)
3	(<i>S_a</i> , <i>S_a</i>)- 12	4 (<i>R</i>)	4 (<i>R</i>)
4	(<i>R</i> , <i>R</i>)- 13	6 (<i>S</i>)	7 (<i>S</i>)
5	(<i>R</i> , <i>R</i>)- 14	<i>rac</i>	2 (<i>S</i>)
6	(<i>R</i> , <i>R</i> , <i>R</i> , <i>R</i>)- 15	<i>rac</i>	<i>rac</i>
16 ^[a]	(<i>S_a</i>)- 16	44 (<i>R</i>)	-
17 ^[a]	(<i>R</i> , <i>R</i>)- 17	3 (<i>S</i>)	-

[a] Ligands already used in the previous work.⁷