

Figure S1. Asymmetric unit of **9Hg'** in representation of atoms with thermal ellipsoids (given at $p = 50\%$).

Table S1. Crystallographic data and the refinement parameters for compounds.

	9Zn·CH₃OH	9Hg·CH₃OH	9Hg'·2CH₃OH	8·solvent	10	10Cd·1.75CH₃OH·0.75H₂O
Empirical formula	C ₂₆ H ₂₉ Cl ₂ N ₅ OZn	C ₂₆ H ₂₉ Cl ₂ HgN ₅ O	C ₂₇ H ₃₂ ClHgN ₅ O ₂	C ₂₄ H ₂₂ N ₄ O ₃	C ₂₃ H ₁₉ N ₅ O ₄	C _{47.75} H _{46.5} Br ₂ CdN ₁₀ O _{10.5}
Fw	563.81	699.03	694.61	414.45	429.43	1200.67
Crystal system	Triclinic	Triclinic	Monoclinic	Monoclinic	Triclinic	Triclinic
Space group	$P\bar{1}$	$P\bar{1}$	$P2_1/c$	$P2_1/c$	$P\bar{1}$	$P\bar{1}$
Z	2	2	4	4	2	4
a, Å	9.717(7)	9.626(2)	15.911(3)	12.6640(15)	9.4104(6)	11.3012(11)
b, Å	10.537(7)	10.547(2)	15.480(3)	19.273(2)	9.4575(7)	17.9671(18)
c, Å	14.692(13)	14.916(3)	11.104(2)	9.5614(12)	11.6949(8)	29.382(3)
α, °	72.37(3)	100.137(7)	90	90	102.897(2)	97.895(2)
β, °	71.17(3)	108.617(9)	108.76(3)	91.540(3)	90.055(2)	99.032(2)
γ, °	79.99(2)	98.811(8)	90	90	91.925(2)	102.104(2)
V, Å ³	1352.1(18)	1376.8(5)	2589.8(10)	2332.9(5)	1013.96(12)	5670.9(10)
D _{calc} , g·cm ⁻³	1.385	1.686	1.781	1.180	1.407	1.406
μ, cm ⁻¹	1.134	5.811	6.081	0.080	0.099	1.855
F(000)	584	684	1368	872	448	2420
No of measured reflections	14193	20134	35134	27088	8652	77749
No of independent reflections, R _{int}	7810, 0.023	9211, 0.030	8182, 0.175	7118, 0.100	4709, 0.041	34402, 0.159
No of observed reflections with [I>2σ(I)]	6731	8323	4027	3729	2496	13056
No of parameters	320	320	331	283	291	1309
R ₁ [I>2σ(I)]	0.041	0.025	0.064	0.059	0.062	0.082
wR ₂ [all]	0.110	0.066	0.127	0.127	0.149	0.185
GOF	1.04	1.13	0.93	1.01	1.03	1.07
Δρ _{max} , Δρ _{min} (e Å ⁻³)	0.98/-0.60	0.89/-1.36	2.07/-3.07	0.26/-0.28	0.27/-0.26	2.09/-2.04

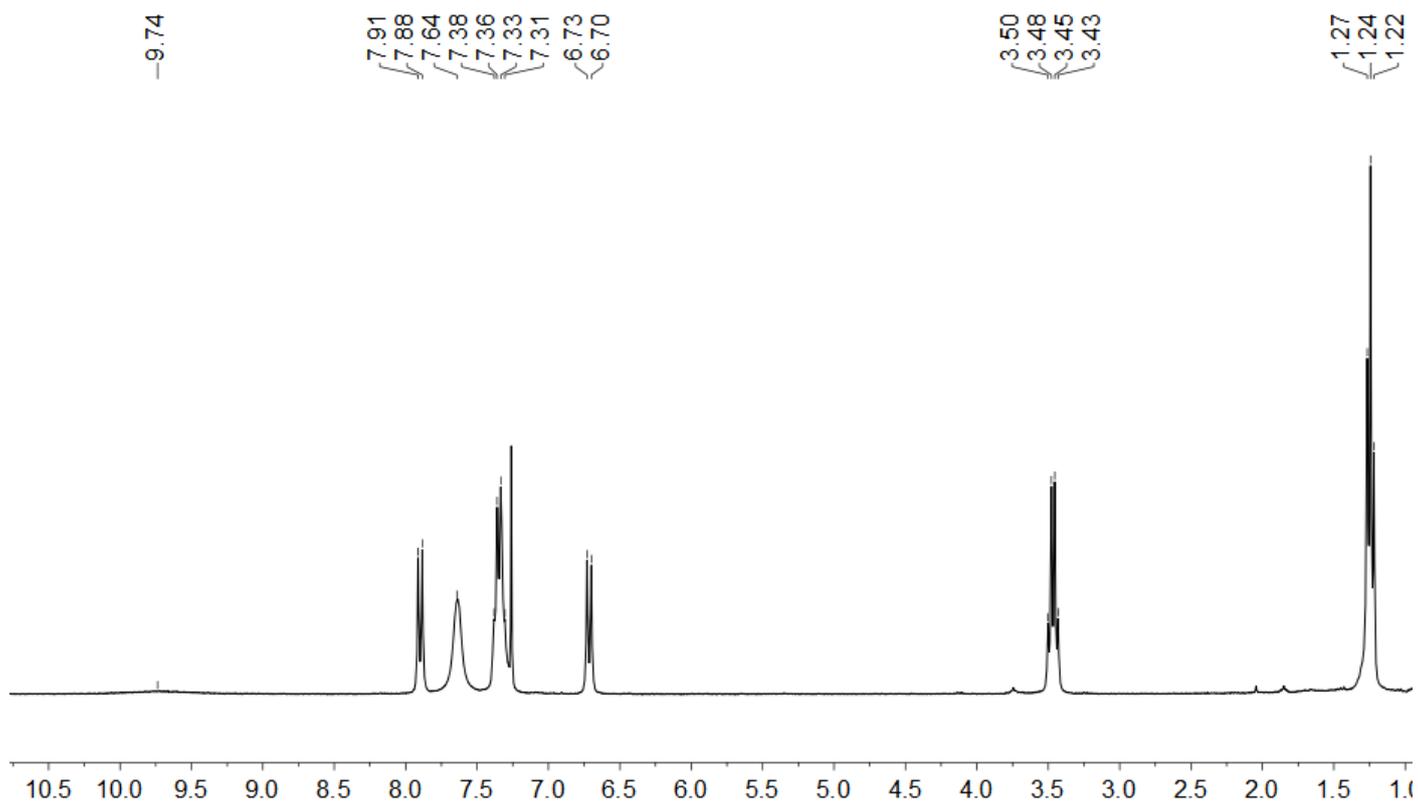


Figure S2. ^1H NMR spectrum of **9** (CDCl_3).

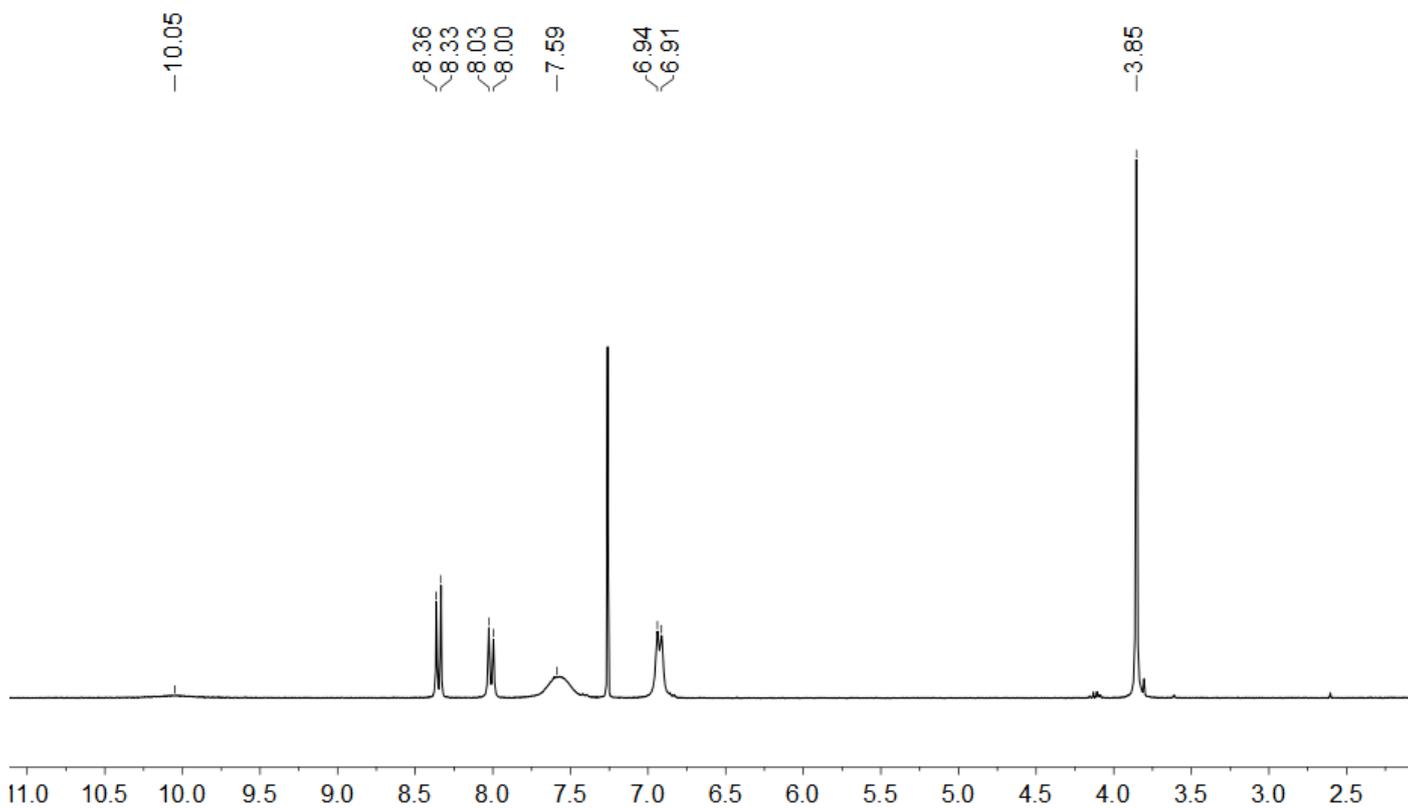


Figure S3. ^1H NMR spectrum of **10** (CDCl_3).

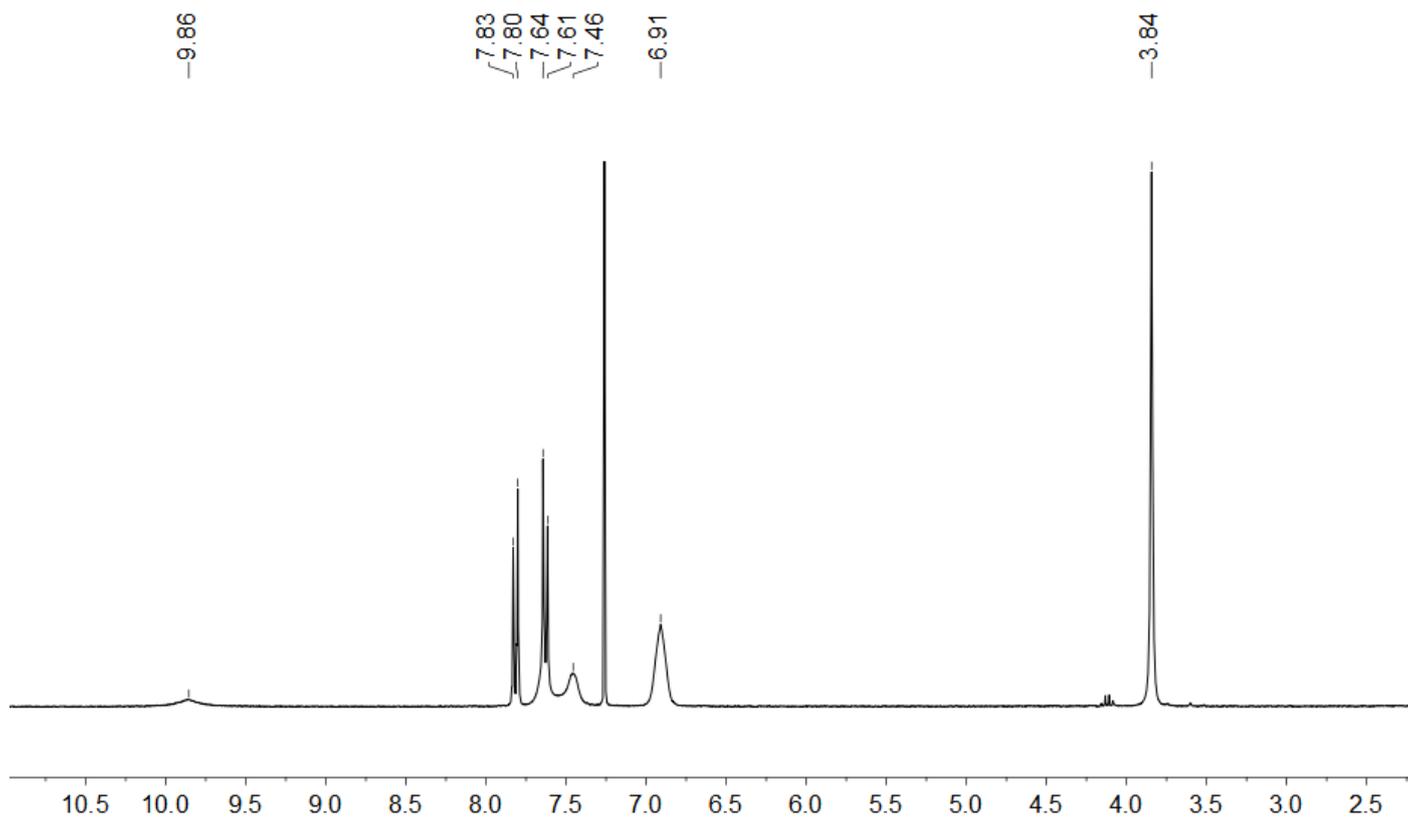


Figure S4. ¹H NMR spectrum of **11** (CDCl₃).