

Investigations on photochromic properties of 2,6-bis(5-bromo-2-hydroxybenzylidene)cyclohexanone

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Electronic Supporting Information

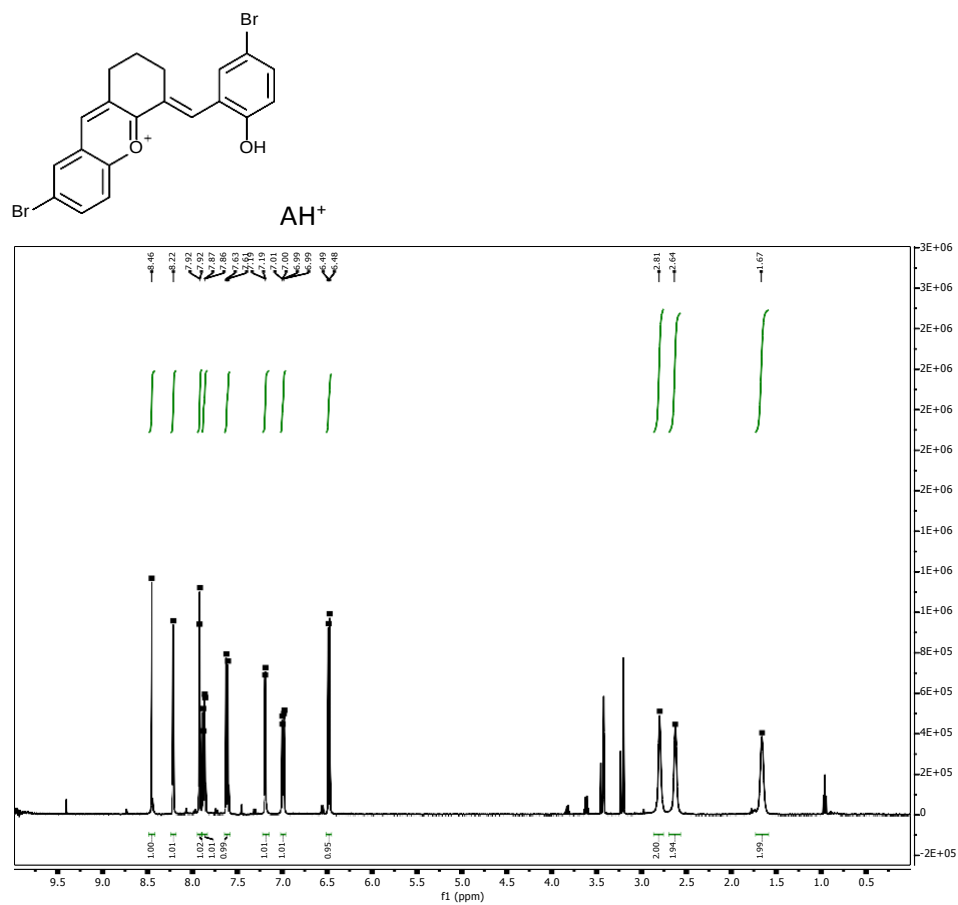


Fig. S1 1H -NMR spectrum of AH^+ (equilibrated in CD_3OD and $HClO_4$, 1:2.5, after 4 days)

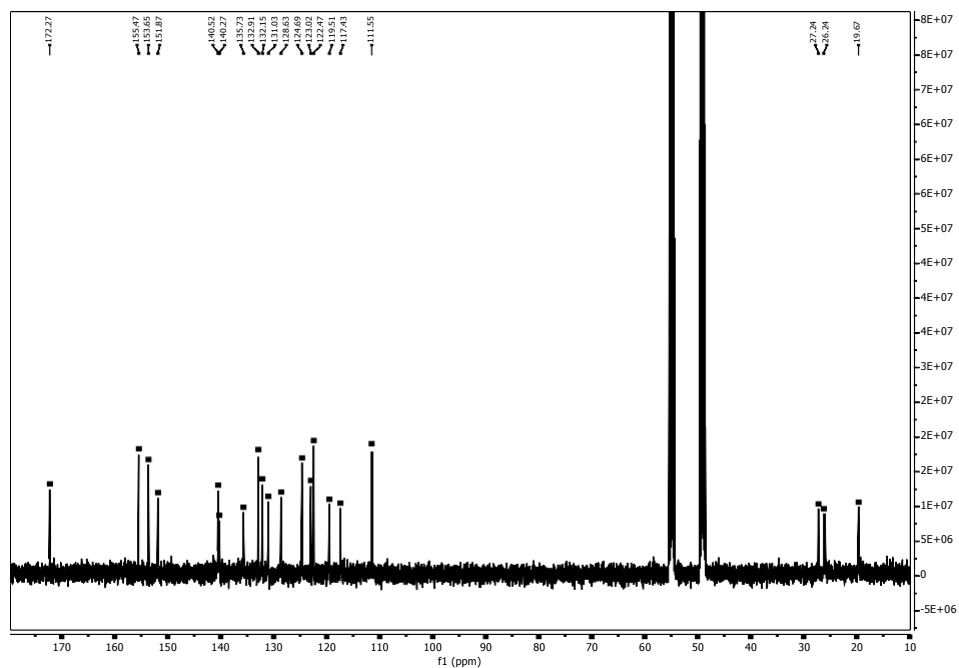


Fig. S2 ^{13}C -NMR spectrum of AH^+ (equilibrated in CD_3OD and $HClO_4$, 1:2.5, after 4 days)

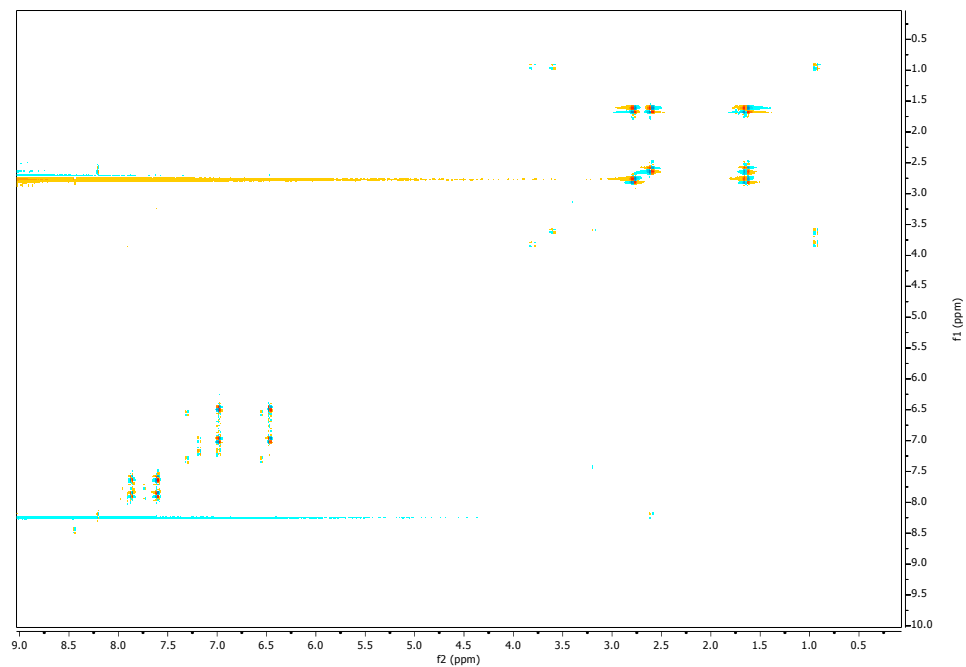


Fig. S3 2D-H,H-COSY NMR spectrum of AH⁺ (equilibrated in CD₃OD and HClO₄, 1:2.5, after 4 days)

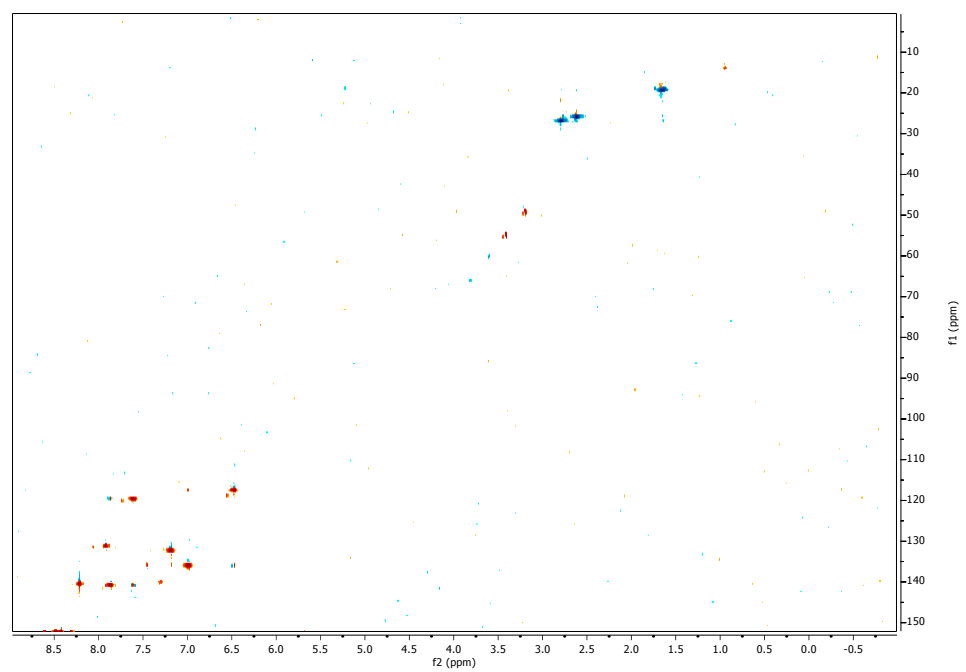


Fig. S4 2D-H,C-HSQC NMR spectrum of AH⁺ (equilibrated in CD₃OD and HClO₄, 1:2.5, after 4 days)

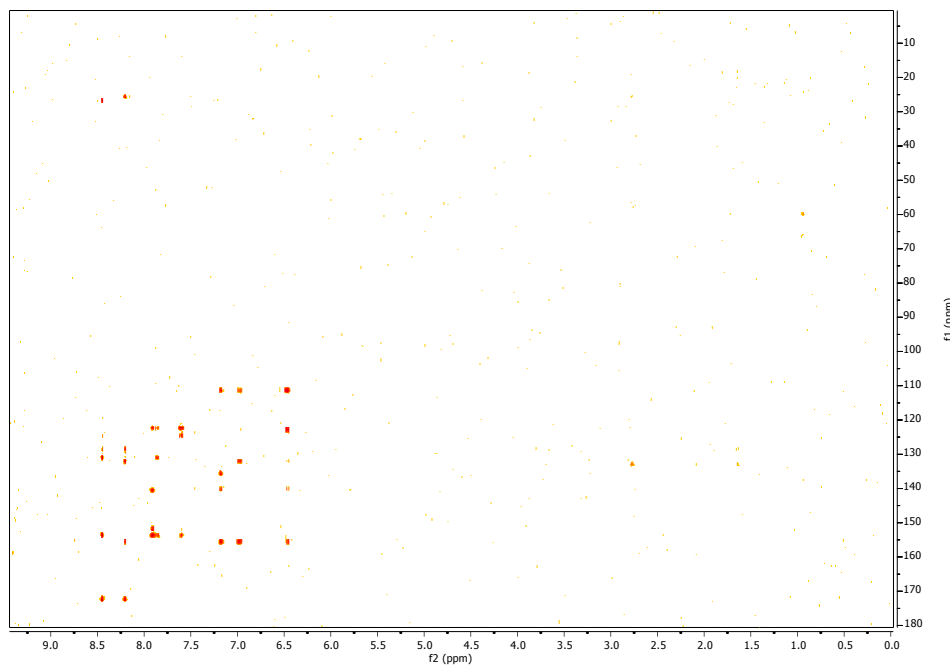


Fig. S5 2D-H,C-HMBC NMR spectrum of AH⁺ (equilibrated in CD₃OD and HClO₄, 1:2.5, after 4 days)

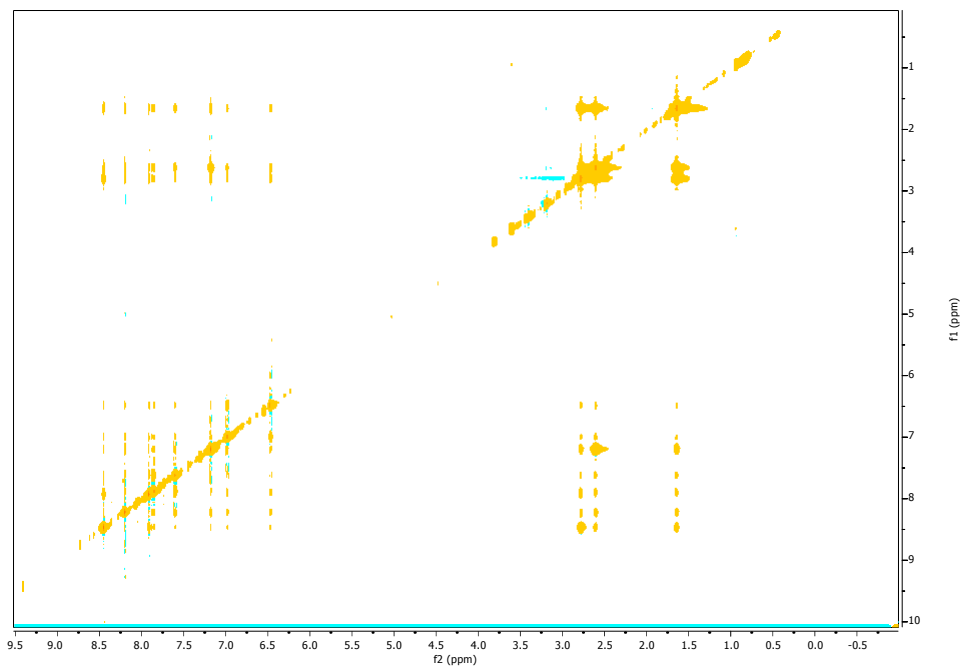


Fig. S6 2D-H,H-NOESY NMR spectrum of AH⁺ (equilibrated in CD₃OD and HClO₄, 1:2.5, after 4 days)

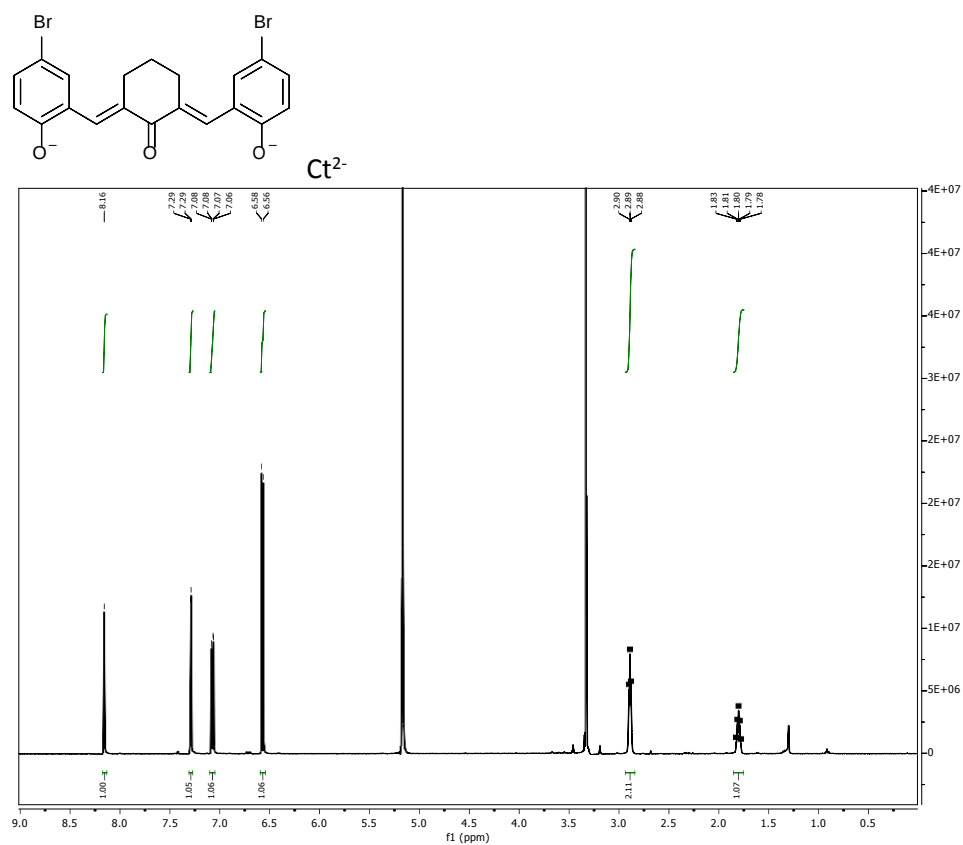


Fig. S7 ^1H -NMR spectrum of Ct^{2-} recorded at time (acquired immediately upon dissolution in CD_3OD and 40 μl NaOD 40% wt)

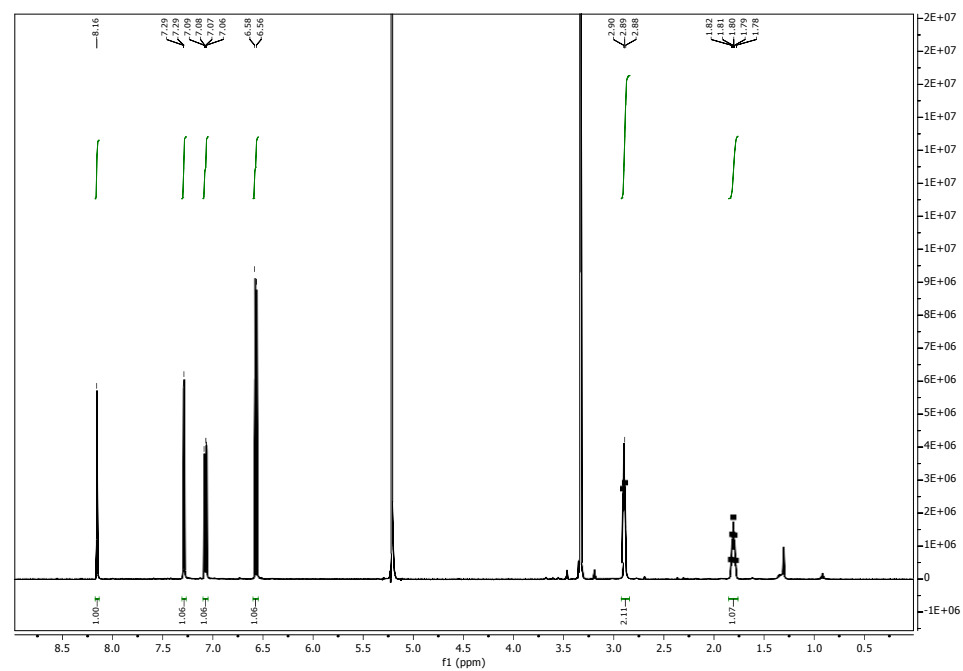


Fig. S8 ^1H -NMR spectrum of Ct^{2-} recorded after 7 days of storage at room temperature

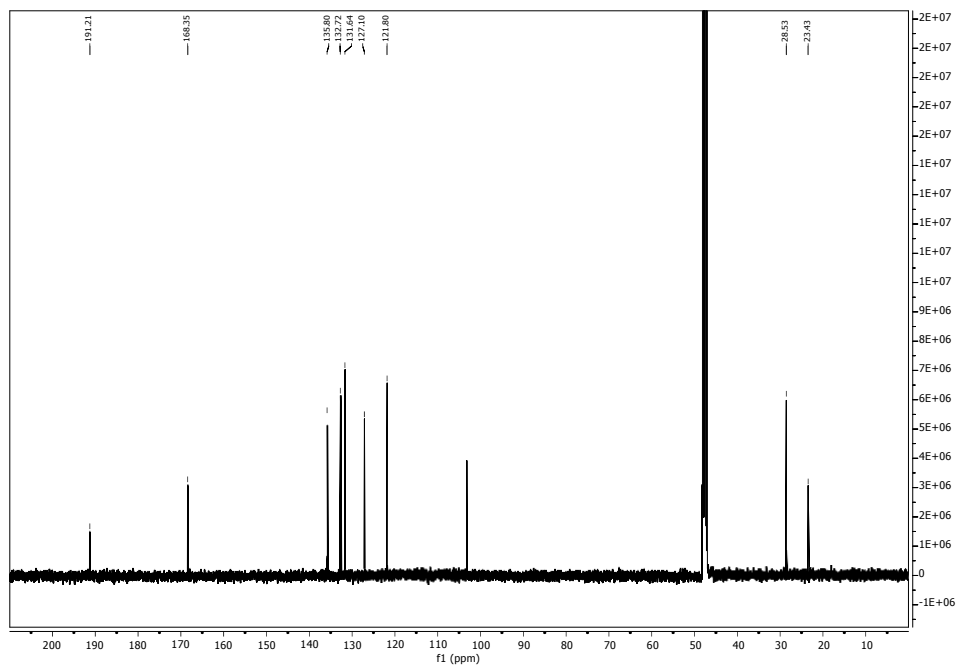


Fig. S9 ^{13}C -NMR spectrum of Ct^{2-} recorded after 14 days of storage at room temperature

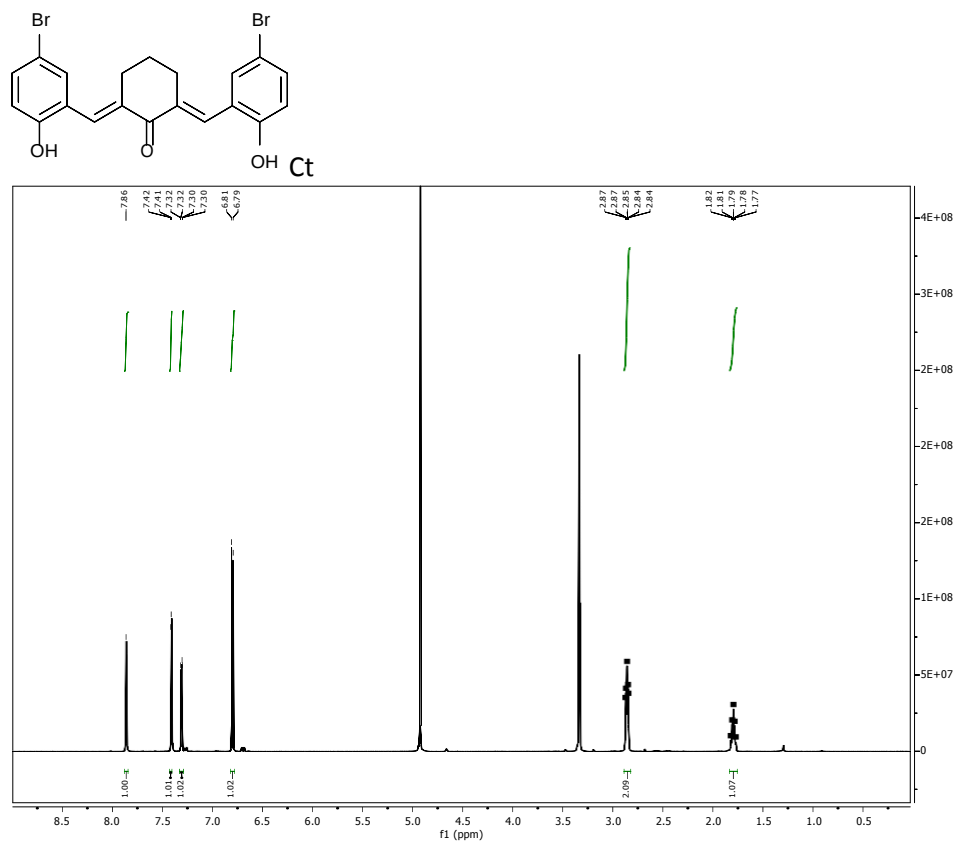


Fig. S10 ^1H -NMR spectrum of Ct (acquired immediately upon dissolution in CD_3OD)

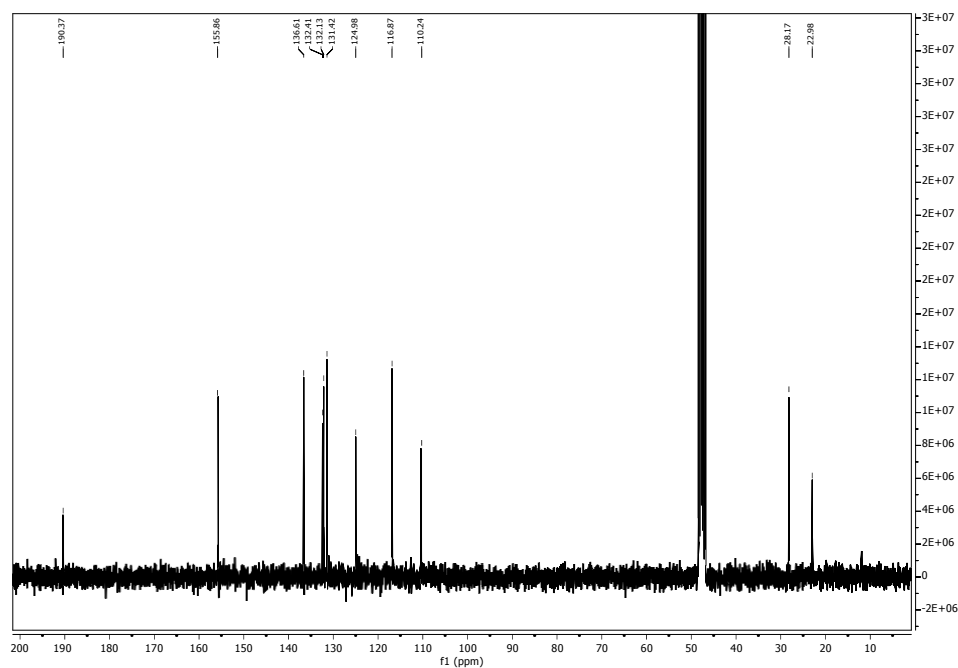
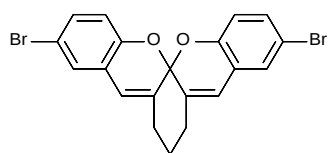


Fig. S11 ^{13}C -NMR spectrum of Ct (acquired immediately upon dissolution in CD_3OD)



B-B

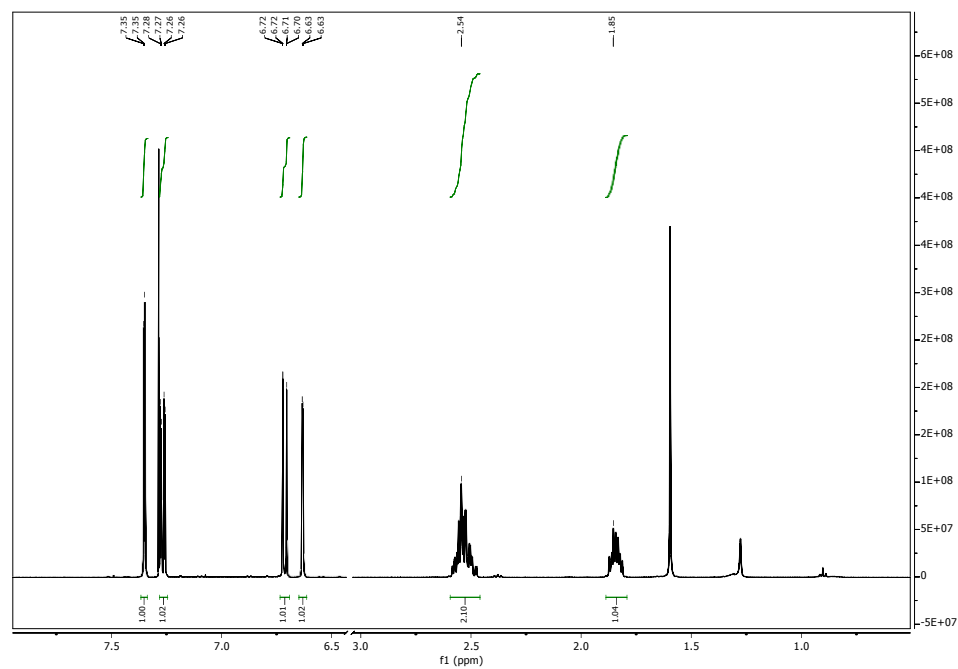


Fig. S12 ^1H -NMR spectrum of B-B crystals dissolved in CDCl_3

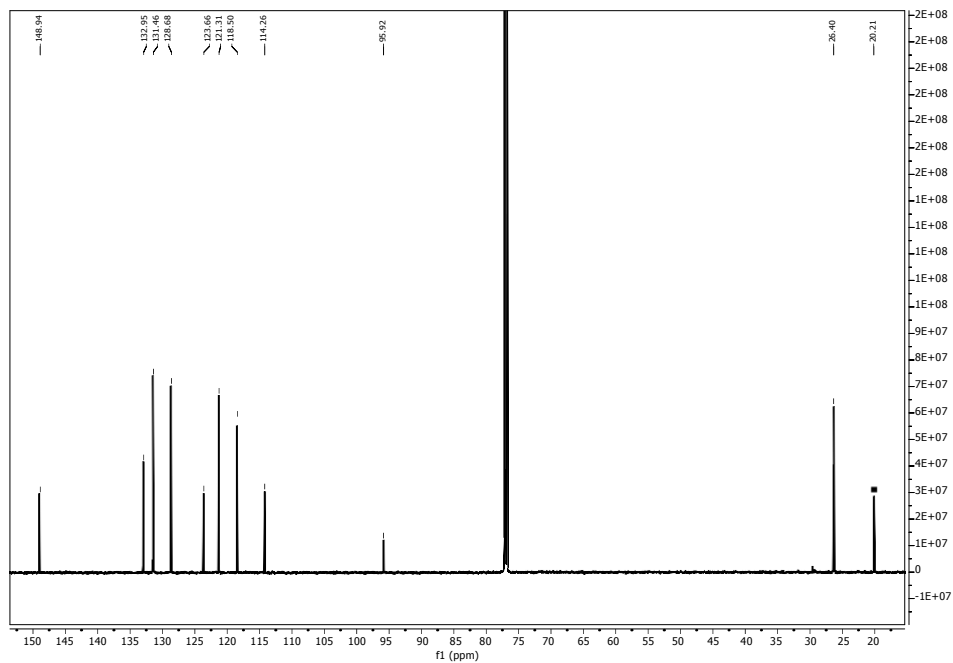


Fig. S13 ¹³C-NMR spectrum of B-B crystals dissolved in CDCl₃

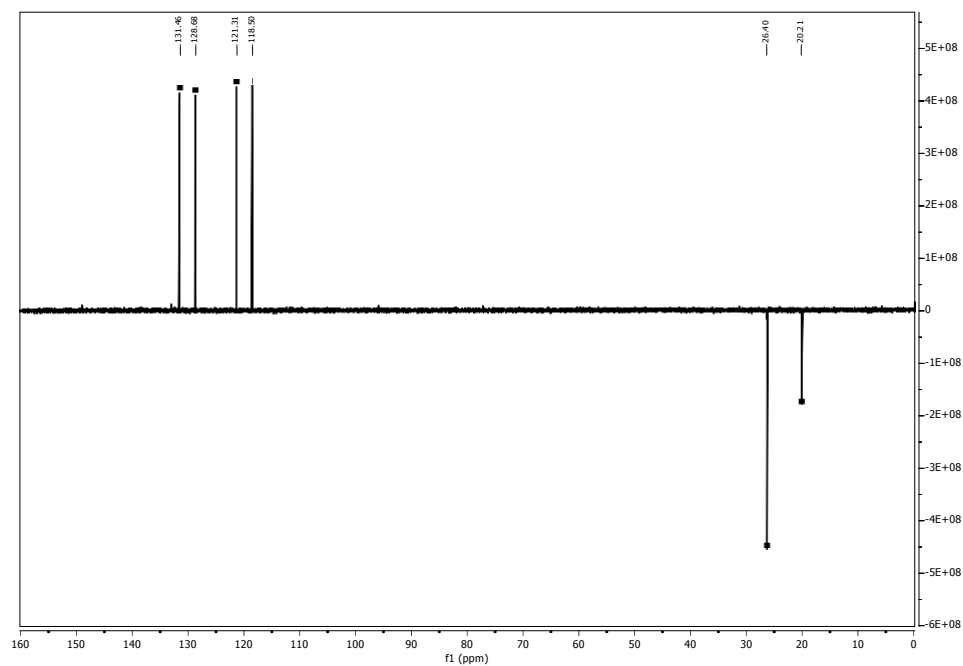


Fig. S14 DEPT NMR spectrum of B-B crystals dissolved in CDCl₃

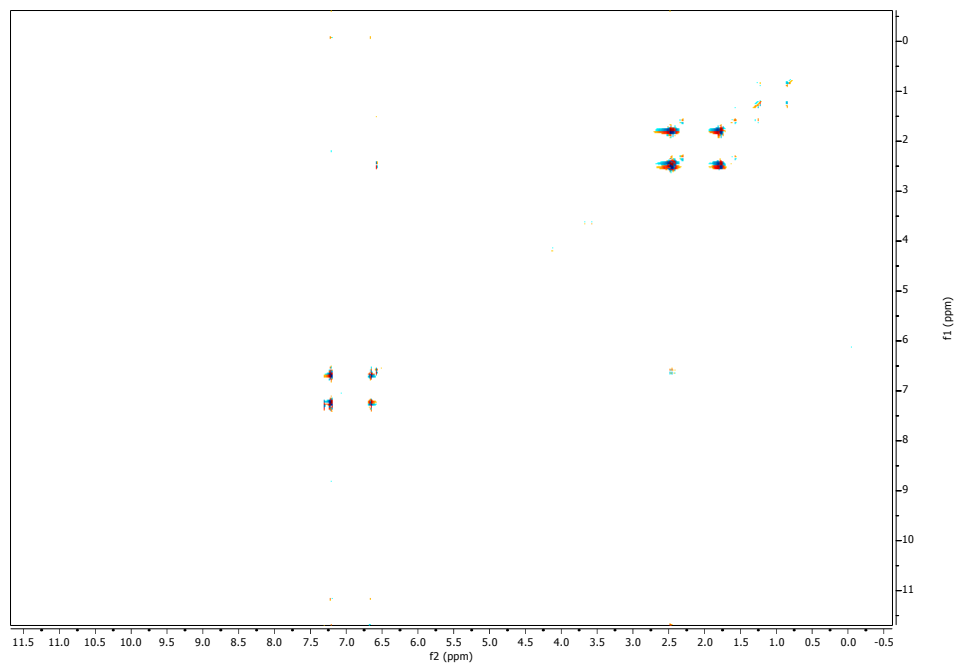


Fig. S15 2D-H,H-COSY NMR spectrum of B-B crystals dissolved in CDCl_3

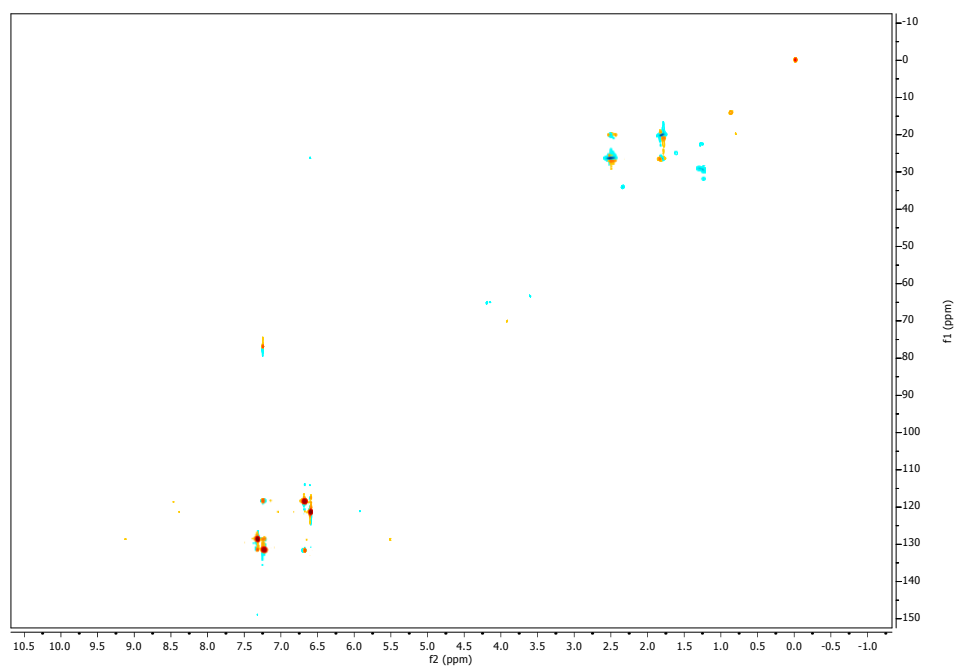


Fig. S16 2D-H,C-HSQC NMR spectrum of B-B crystals dissolved in CDCl_3

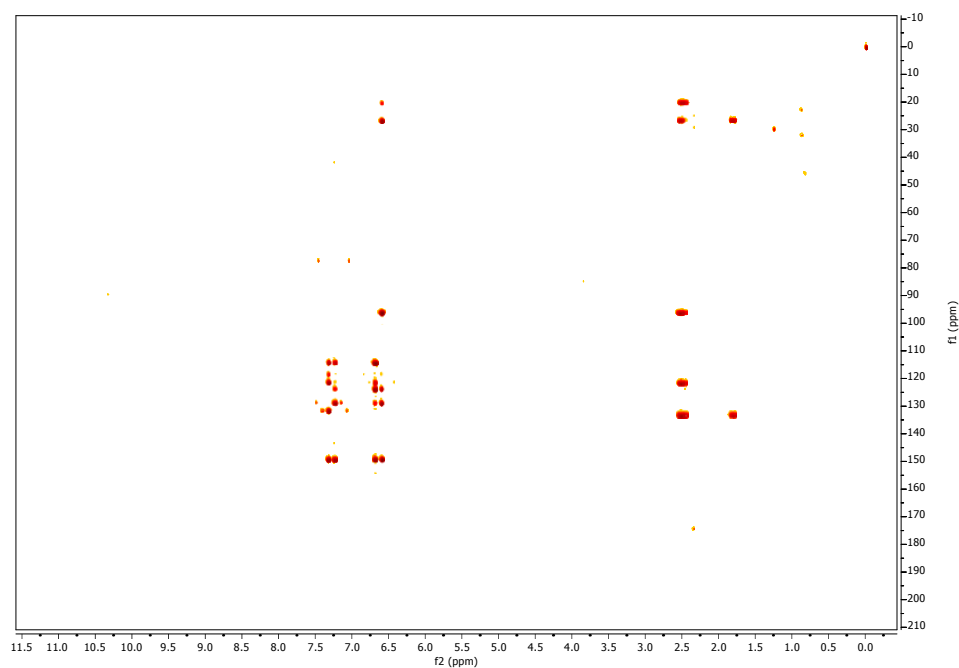


Fig. S17 2D-H,C-HMBC NMR spectrum of B-B crystals dissolved in CDCl₃

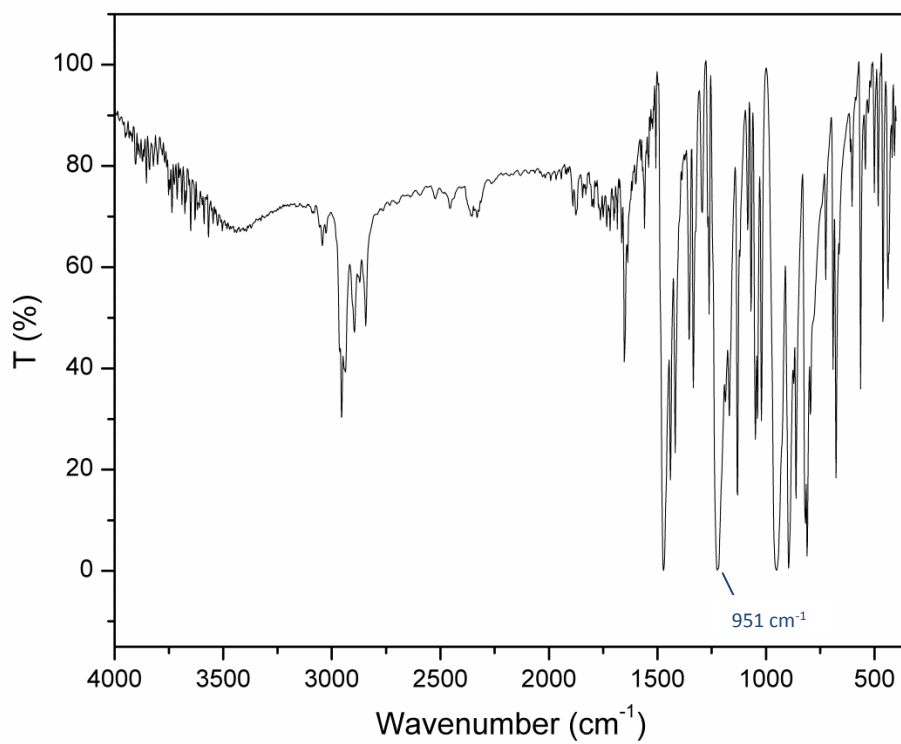


Fig. S18 FTIR spectrum of B-B form