Supplementary Information – ORTEP Plots of Asymmetric Units of Complexes 1 – 12

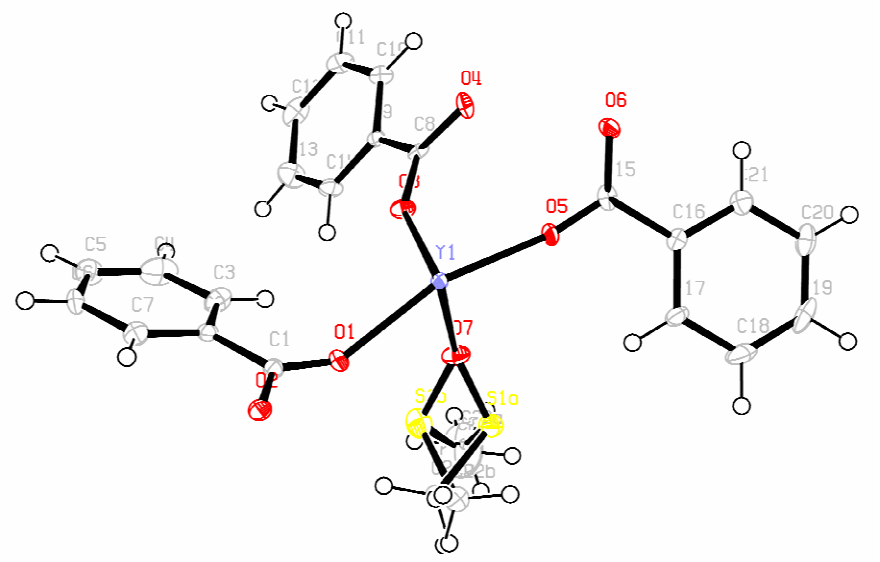

Figure S1: ORTEP representation of the asymmetric unit of $[Y(BA)_3(DMSO)]_n$ **1a**. Ellipsoids displayed at 50% probability.

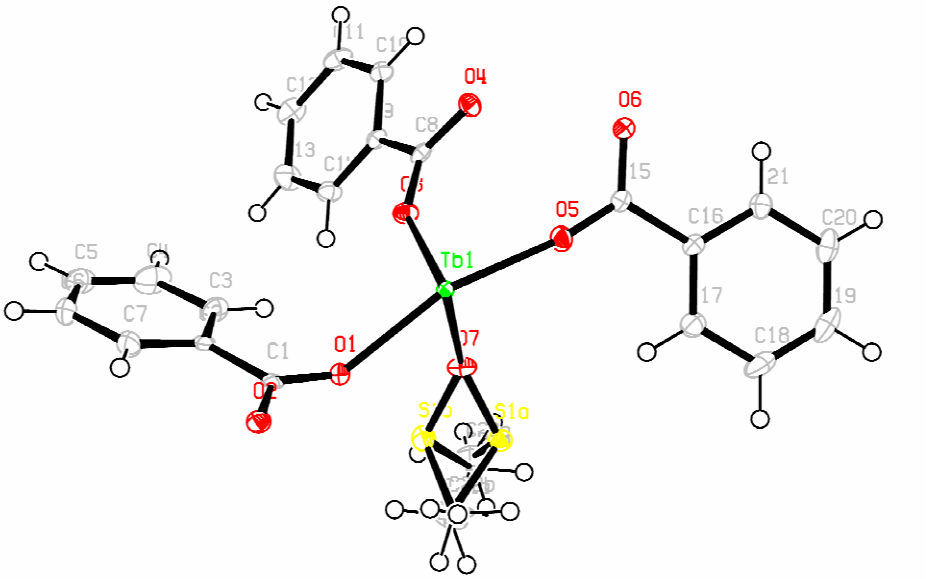

Figure S2: ORTEP representation of the asymmetric unit of $[Tb(BA)_3(DMSO)]_n$ **1b**. Ellipsoids displayed at 50% probability.

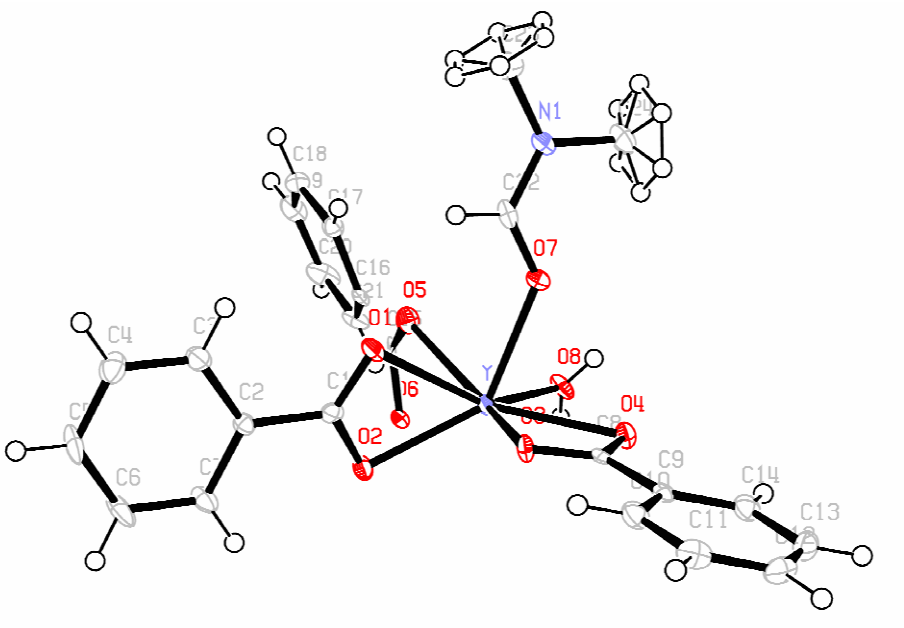

Figure S3: ORTEP representation of the asymmetric unit of $[Y(BA)_3(DMF)(H_2O)]_2$ **2**. Ellipsoids displayed at 50% probability.

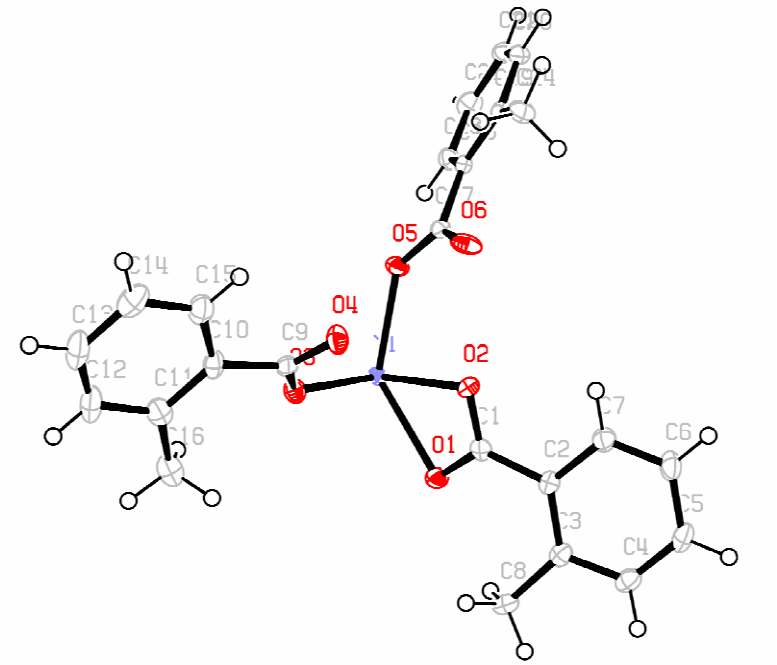

Figure S4: ORTEP representation of the asymmetric unit of $[Y(2\text{-}MeBA)_3]_n$ **3**. Ellipsoids displayed at 50% probability.

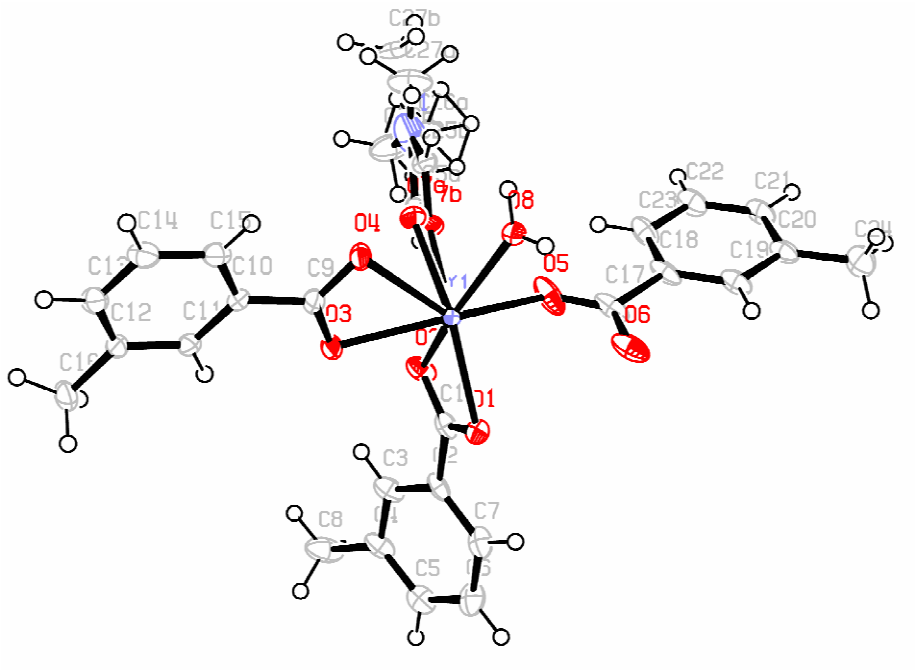

Figure S5: ORTEP representation of the asymmetric unit of [Y(3-MeBA)$_3$(DMF)(H$_2$O)]$_2$ **4**. Ellipsoids displayed at 50% probability.

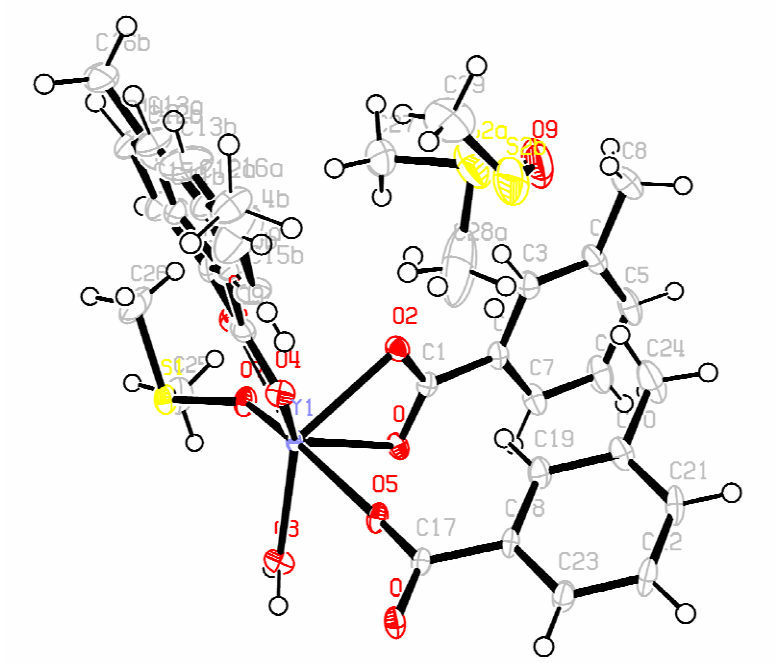

Figure S6: ORTEP representation of the asymmetric unit of {[Y(3-MeBA)$_3$(DMSO)(H$_2$O)]·DMSO}$_2$ **5**. Ellipsoids displayed at 50% probability.

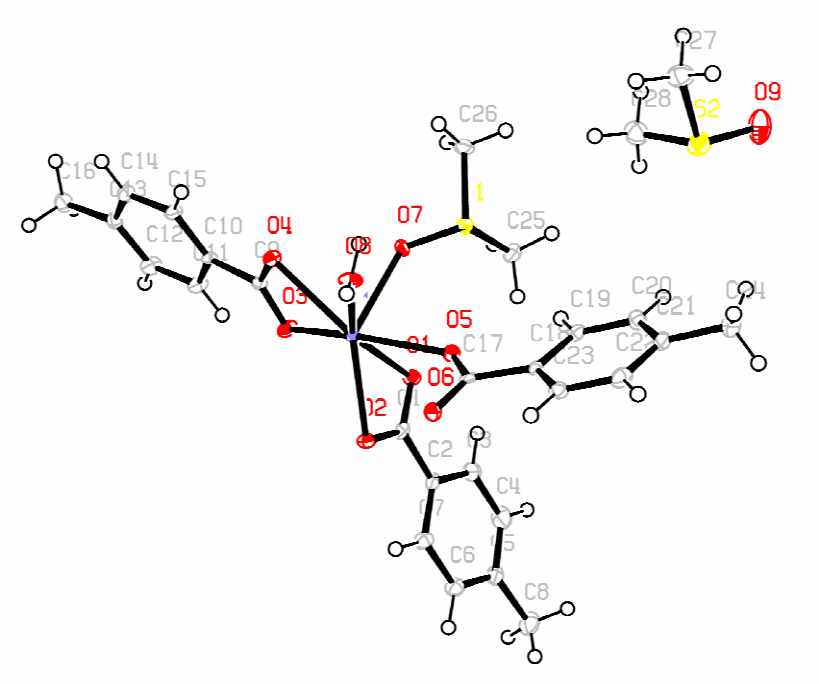

Figure S7: ORTEP representation of the asymmetric unit of $\{[Y(4\text{-}MeBA)_3(DMSO)(H_2O)]\cdot DMSO\}_2$ **6**. Ellipsoids displayed at 50% probability.

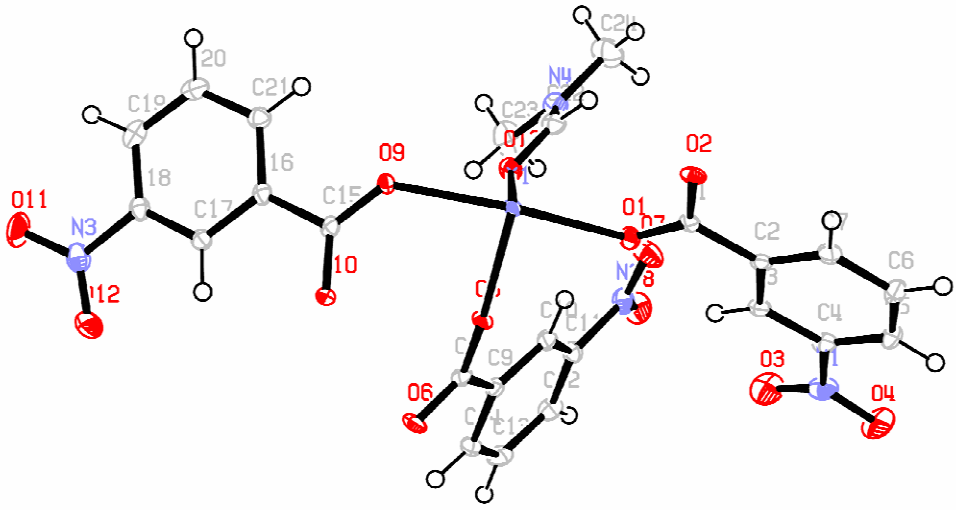

Figure S8: ORTEP representation of the asymmetric unit of $[Y(3\text{-}NO_2BA)_3(DMF)]_n$ **7a**. Ellipsoids displayed at 50% probability.

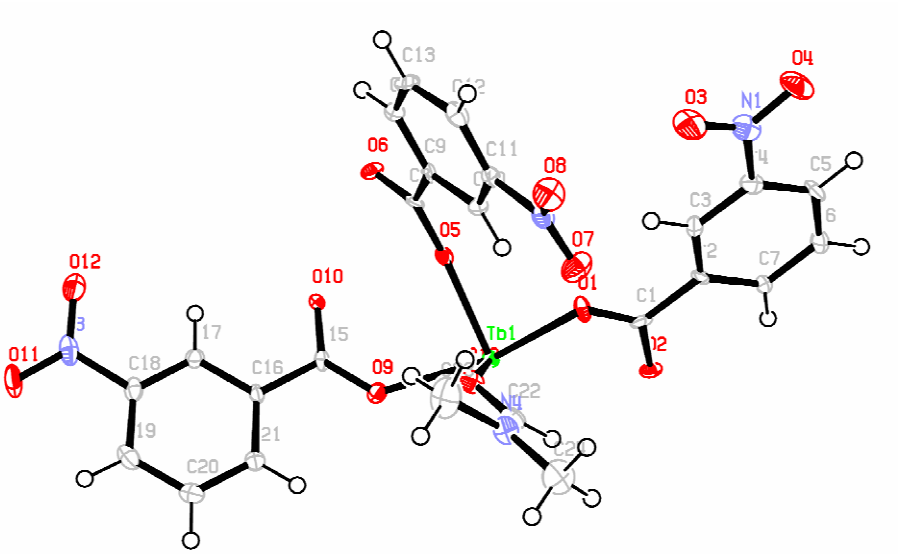

Figure S9: ORTEP representation of the asymmetric unit of $[Tb(3\text{-}NO_2BA)_3(DMF)]_n$ **7b**. Ellipsoids displayed at 50% probability.

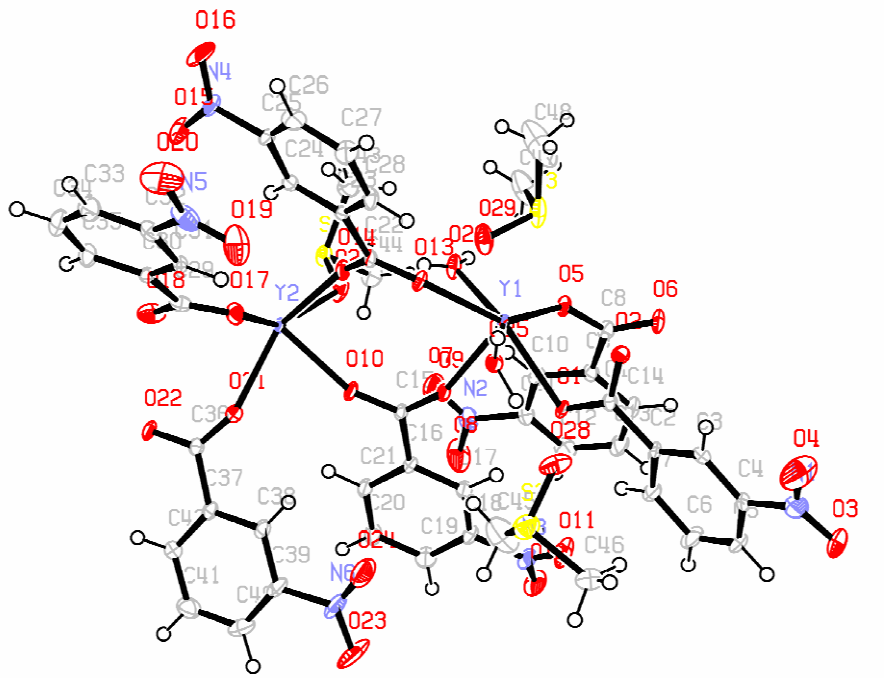

Figure S10: ORTEP representation of the asymmetric unit of $\{[Y_2(3\text{-}NO_2BA)_6(DMSO)(H_2O)_2]\cdot 2DMSO\}_n$ **8**. Ellipsoids displayed at 50% probability.

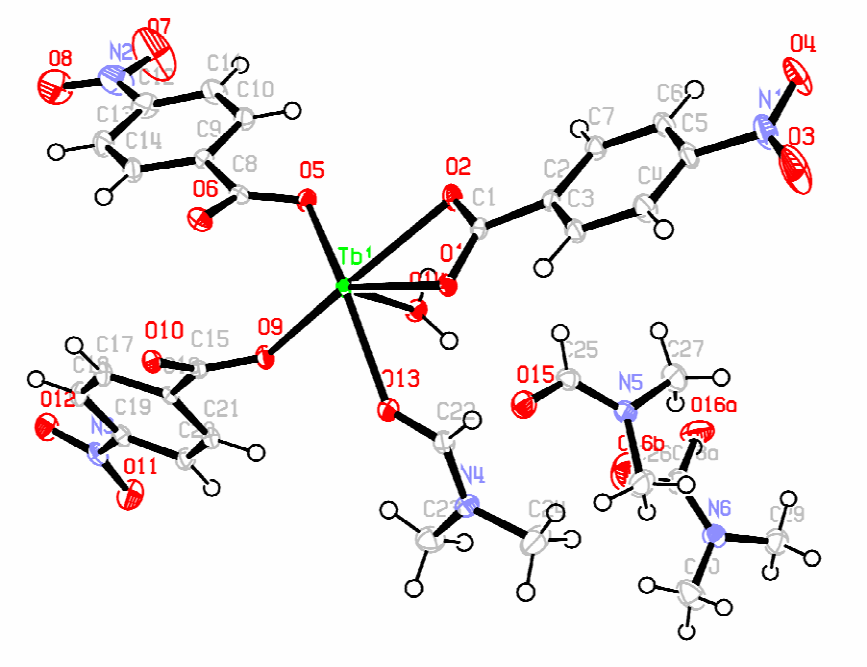

Figure S11: ORTEP representation of the asymmetric unit of {[Tb(4-$NO_2BA)_3(DMF)(H_2O)]\cdot 2DMF\}_2$ **9**. Ellipsoids displayed at 50% probability.

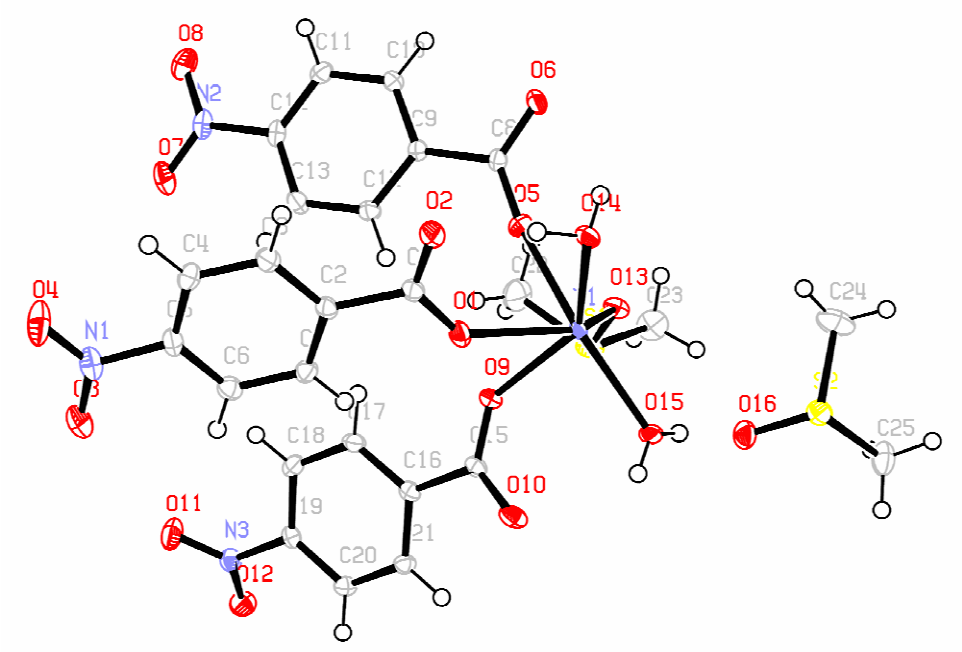

Figure S12: ORTEP representation of the asymmetric unit of {[Y(4-$NO_2BA)_3(DMSO)(H_2O)]\cdot DMSO\}_n$ **10a**. Ellipsoids displayed at 50% probability.

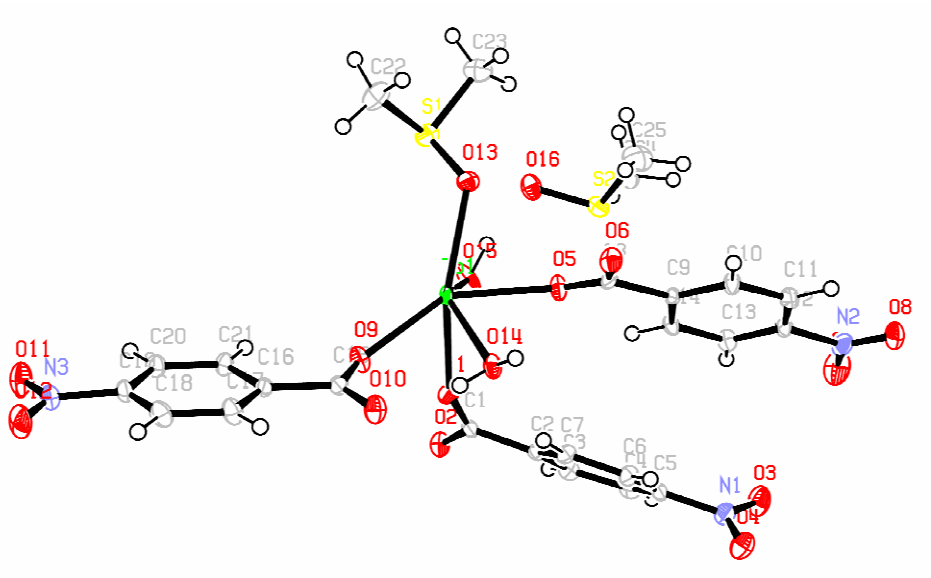

Figure S13: ORTEP representation of the asymmetric unit of {[Tb(4-$NO_2BA)_3(DMSO)(H_2O)]\cdot DMSO\}_n$ **10b**. Ellipsoids displayed at 50% probability.

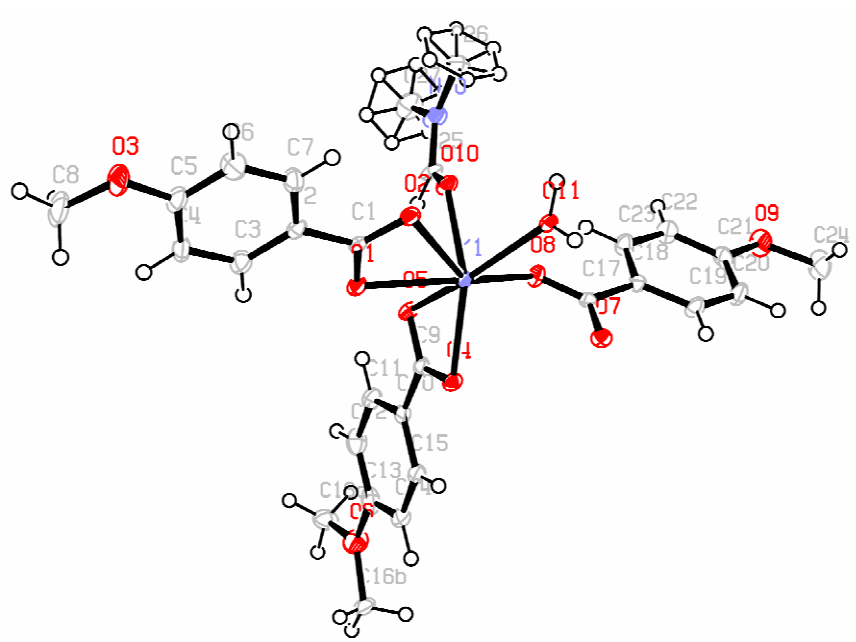

Figure S14: ORTEP representation of the asymmetric unit of {[Y(4-$MeOBA)_3(DMF)(H_2O)]\cdot_2$ **11a**. Ellipsoids displayed at 50% probability.

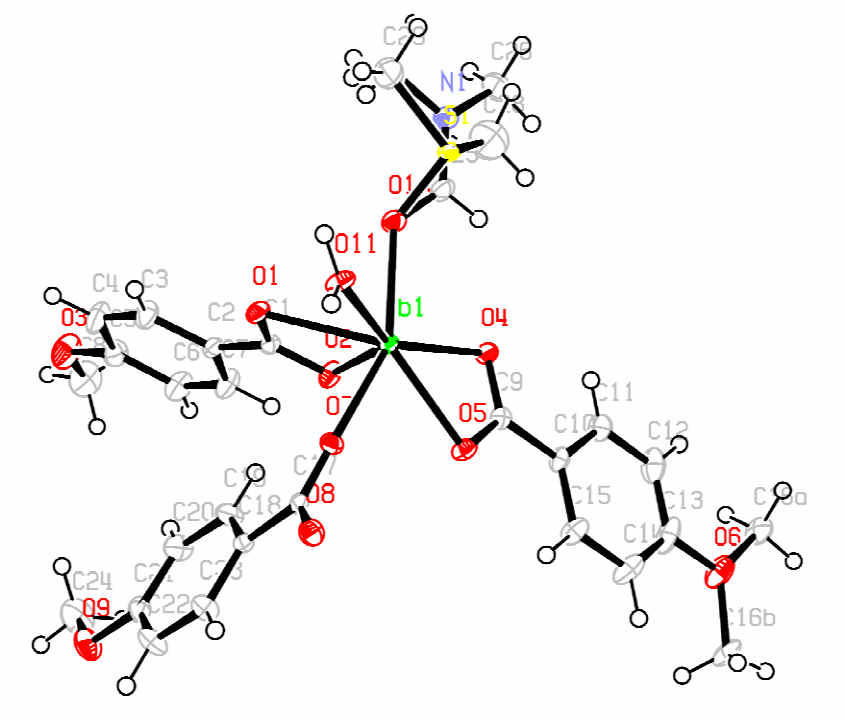

Figure S15: ORTEP representation of the asymmetric unit of {[Tb(4-MeOBA)$_3$(DMF/DMSO)(H$_2$O)]·$_2$ **11b**. Ellipsoids displayed at 50% probability.

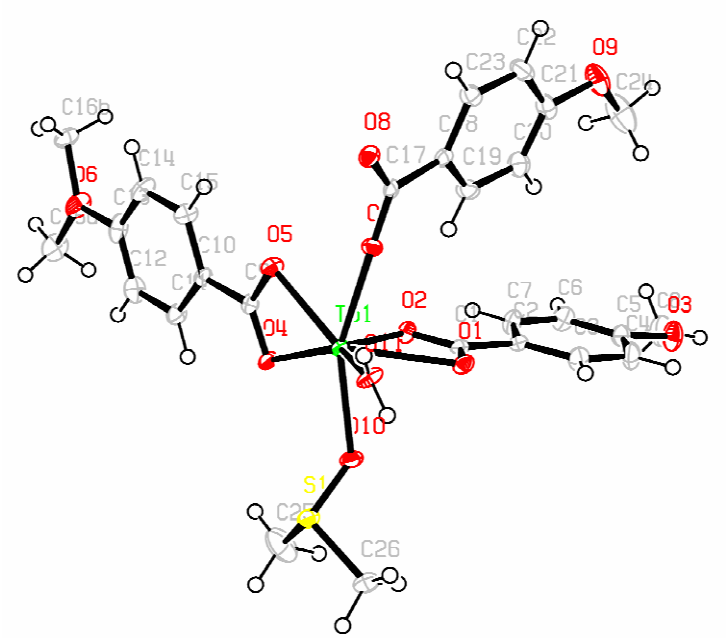

Figure S16: ORTEP representation of the asymmetric unit of {[Tb(4-MeOBA)$_3$(DMSO)(H$_2$O)]·$_2$ **12**. Ellipsoids displayed at 50% probability.