

SUPPLEMENTARY MATERIAL

Host (-)-(2*R*,3*R*)-2,3-Dimethoxy-1,1,4,4-tetraphenylbutane-1,4-diol and Guests Aniline, *N*-Methylaniline and *N,N*-Dimethylaniline: A Selectivity Study

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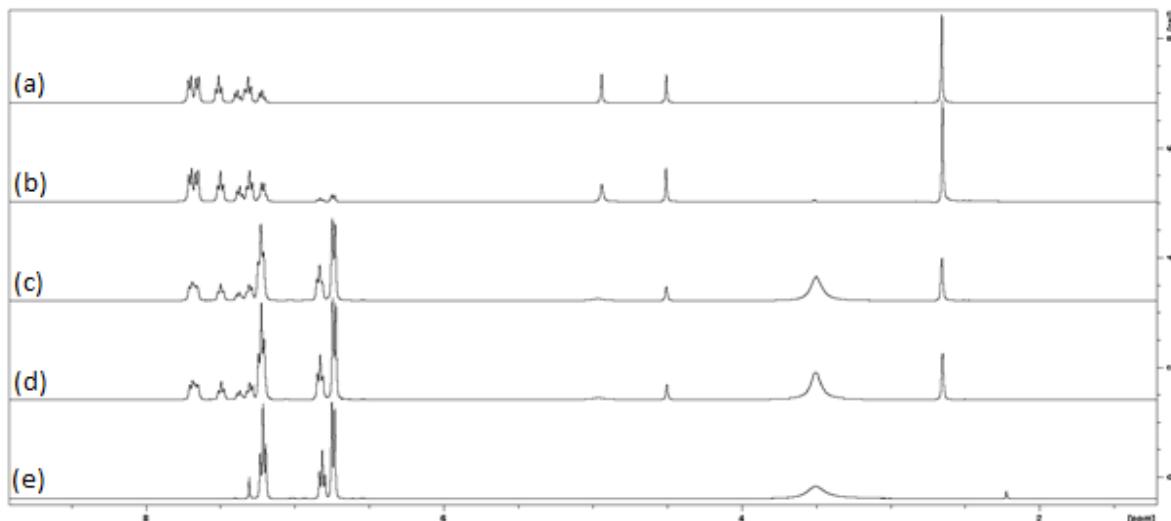


Fig. S1. Overlaid ^1H -NMR spectra for (a) pure DMT, (b) 2DMT•aniline, (c) DMT•aniline (d) DMT•2aniline and (e) pure aniline.

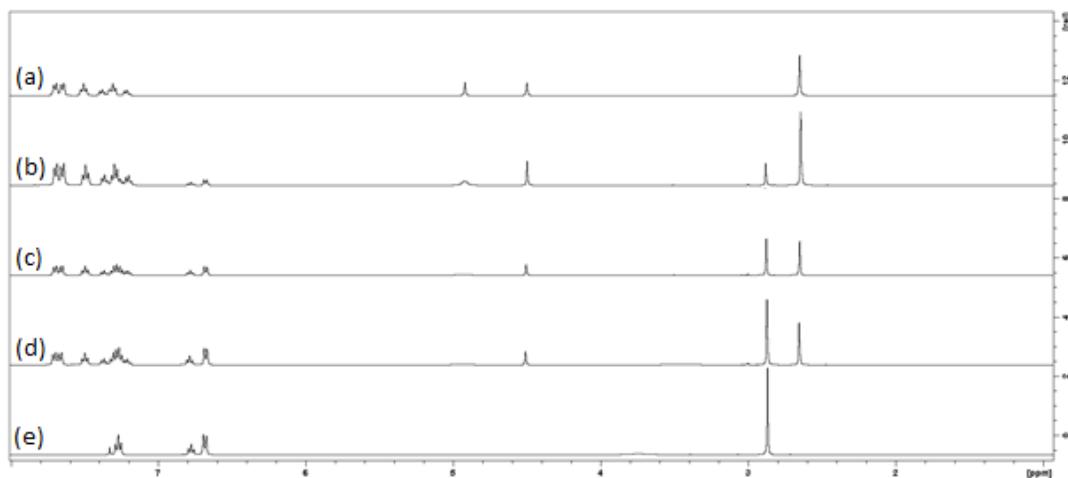


Fig. S2. Overlaid ¹H-NMR spectra for (a) pure DMT, (b) 2DMT•N-methylaniline, (c) DMT•N-methylaniline (d) DMT•2N-methylaniline and (e) pure N-methylaniline.

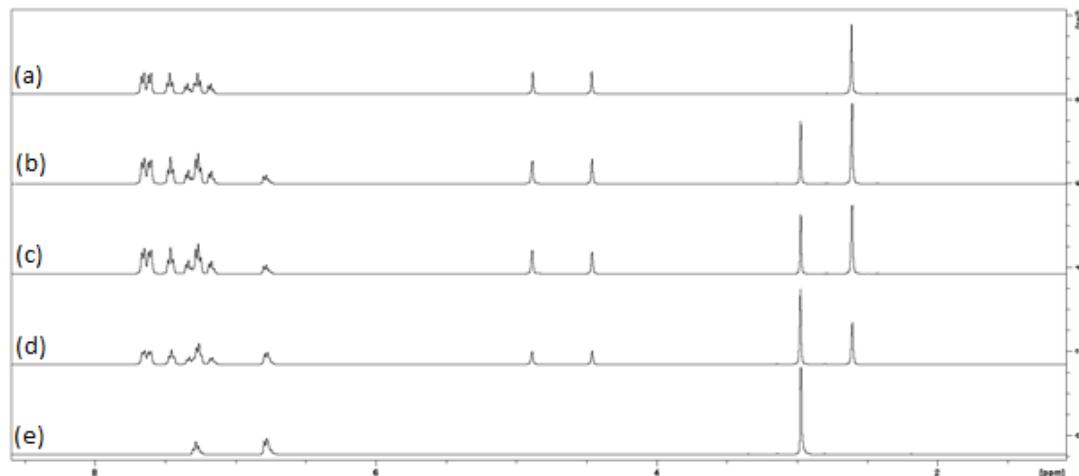


Fig. S3. Overlaid ¹H-NMR spectra for (a) pure DMT, (b) 2DMT•N,N-dimethylaniline, (c) DMT•N,N-dimethylaniline (d) DMT•2N,N-dimethylaniline and (e) pure N,N-dimethylaniline.

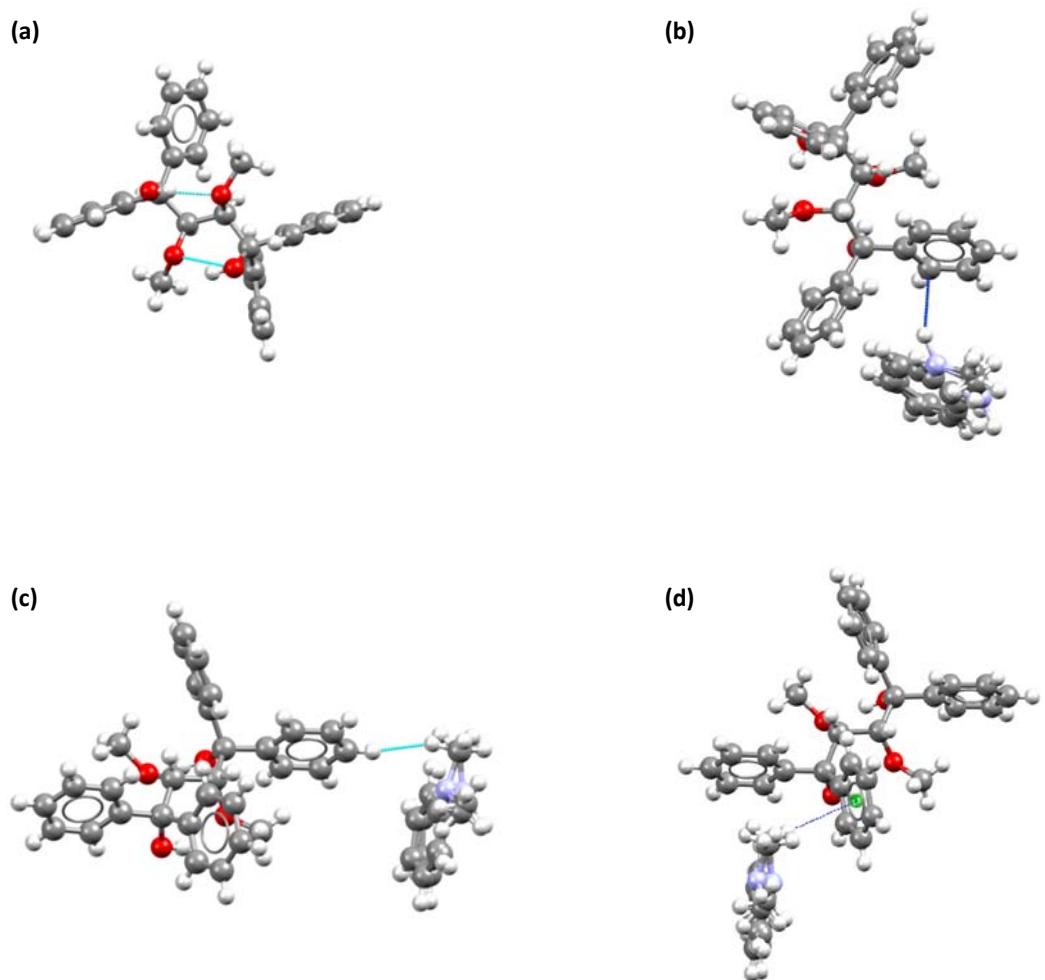


Fig. S4. (a) A pair of 1,3-hydrogen bonds maintains the geometry in each of the host molecules for all of the complexes. Host–guest interactions showing the strong short contacts in (b) 2DMT•2 [2.63 Å (140°)] [(guest)N–H···C–C(host)] and in (c) 2DMT•3 [2.14 Å (158°)] [(host)p–ArH···HC(guest methyl)]. (d) The dialkylated aniline **3** is the only guest to experience a CH···π interaction with the host molecule.