Supporting Information

Anion Complexation of Pentafluorophenyl-Substituted Tripodal Urea Receptor in solution and the Solid State: Selectivity toward Phosphate.

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Figure 1S: $^1$H-NMR spectra of $L^2$ in DMSO-d$_6$ at 25ºC
Figure 2S: $^{13}$C-NMR spectra of $L^1$ in DMSO-d$_6$ at 25ºC
Figure 3S HRMS spectrum of L¹
Figure 4S: $^1$H-NMR spectra of complex 1 in DMSO-d$_6$ at 25°C
Figure 5S: $^{13}$C-NMR spectra of complex 1 in DMSO-$d_6$ at 25°C
Figure 6S HRMS spectrum of complex 1
Figure 7S: $^1$H-NMR spectra of complex 2 in DMSO-d$_6$ at 25ºC
Figure 8S: $^{13}$C--NMR spectra of complex 2 in DMSO-d$_6$ at 25°C
Figure 9S HRMS spectrum of complex 2
Figure 10S: $^{19}$F-NMR spectra of n-Bu$_4$N$^+$F$^-$ in DMSO-d$_6$ at 25ºC.
Figure 11S: $^{19}$F-NMR spectra of $L^1$ in DMSO-$d_6$ at 25ºC.
Figure 12S: $^{19}$F-NMR spectra of $n$-Bu$_4$N$^+$F$^-$ with L$^1$ in DMSO-d$_6$ at 25°C
Figure 13S: Change in Chemical shifts for $L^1$ with $(n$-Bu$_4$N$^+)$HSO$_4^-$ in DMSO-d$_6$ at 25ºC.
Figure 14S: Job’s plot for $L^1$ with $(n$-Bu$_4$N$^+$)$_2$SO$_4^{2-}$ in DMSO-d$_6$ at 25ºC.
Figure 15S: Job’s plot for $L^1$ with $(n$-Bu$_4$N$^+)$HSO$_4^-$ in DMSO-d$_6$ at 25°C.
Figure 16S: The scatterplot of N-H…O angle vs. H…O distance of the hydrogen bonds in H$_2$PO$_4$ complex.
Figure 17S: ORTEP diagram of Complex 1 with 50% probability factor for the thermal ellipsoids.
Figure 18S: The scatter plot of N-H…F angle vs. H…F distance of the hydrogen bonds in complex 1.
Figure 19S: Job’s plot for $L^1$ with $n$-Bu$_4$N$^+$F$^-$ in DMSO-d$_6$ at 25°C.
Figure 20S: Job’s plot for $L^1$ with $n$-Bu$_4$N$^+$Cl$^-$ in DMSO-d$_6$ at 25ºC.
Figure 21S: Job’s plot for $L^1$ with $n$-Bu$_4$N$^+$Br$^-$ in DMSO-d$_6$ at 25ºC.
Figure 22S. Packing diagram of Complex 1 along b-axis.
Figure 23S: ORTEP diagram of Complex 2 with 50% probability factor for the thermal ellipsoids.