

Do An(III) and Ln(III) ions form heteroleptic complexes with diglycolamide and hydrophilic BT(B)P ligands in solvent extraction systems? A spectroscopic and DFT study

— Electronic Supplementary Information —

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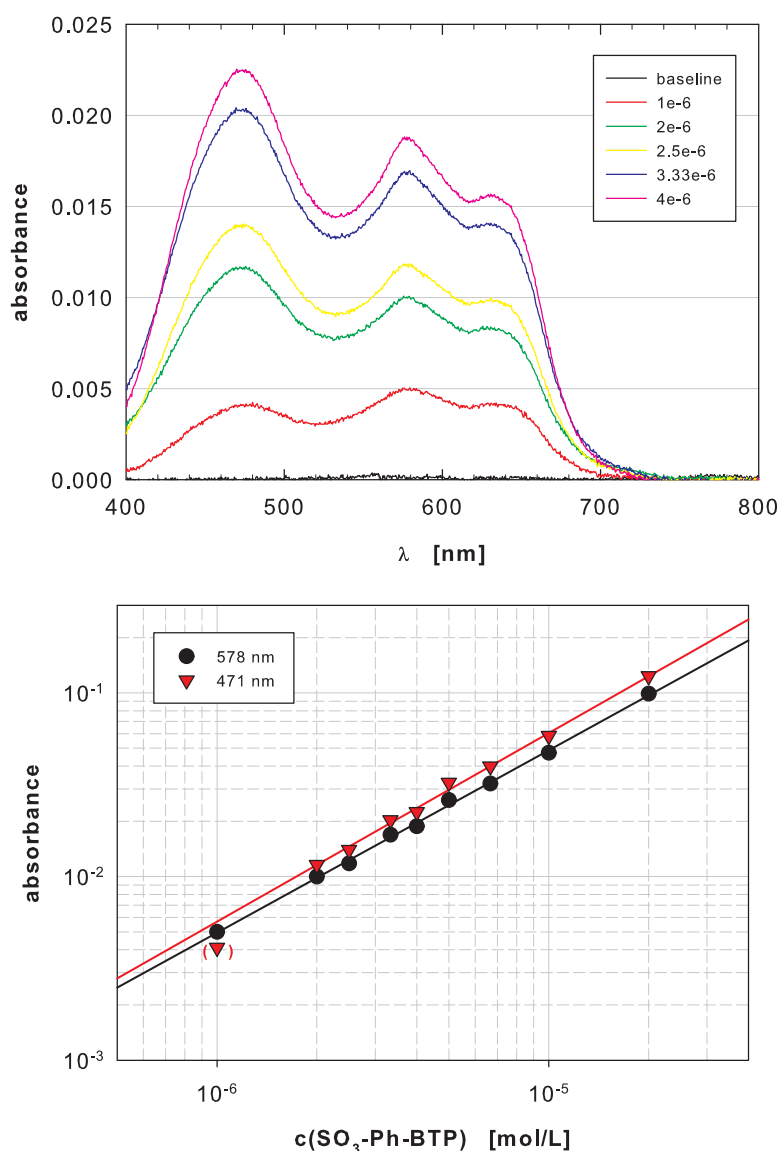


Figure SI 1. Absorption spectra (top) and absorbance (bottom) of the Fe(II)/SO₃-Ph-BTP complex. 3×10^{-4} mol/L Fe(NO₃)₃, 0.015 mol/L HNO₃ and 0.1 mol/L hydroxylammonium chloride in a 1 mol/L acetate buffer (pH = 4.5). SO₃-Ph-BTP concentration as indicated in legend. Path length, 10 mm.

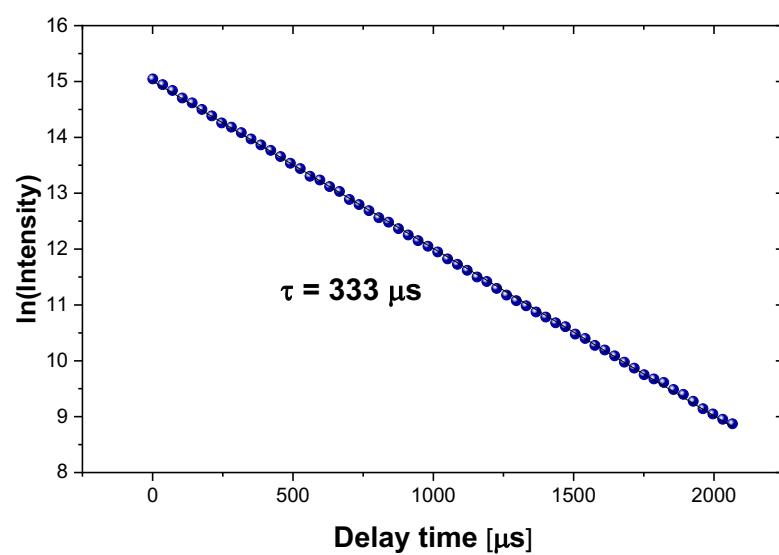


Figure SI 2. Plot of the natural logarithm of the fluorescence intensity of the $[\text{Cm}(\text{SO}_3\text{-Ph-BTP})(\text{TEDGA})_2]^-$ complex at 612–613.5 nm with increasing delay time. 5×10^{-6} mol/L $\text{SO}_3\text{-Ph-BTP}$, 7.65×10^{-2} mol/L TEDGA.