

## Synthesis, Structure and Property Evaluation of a New Class of Volatile Lanthanide Precursors Containing Enaminolate Ligands

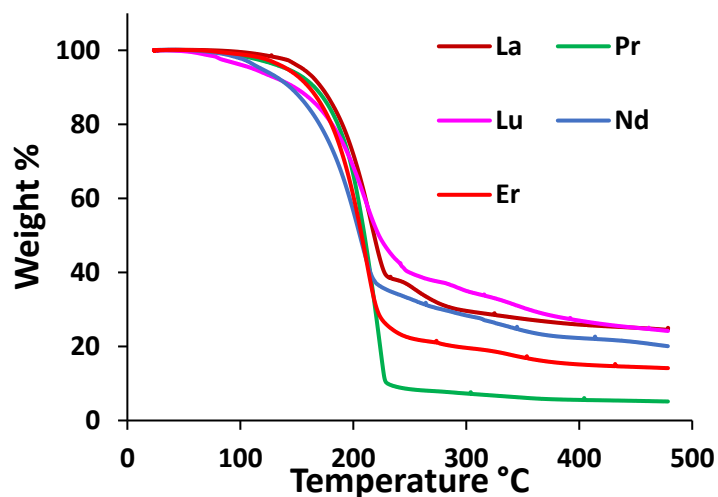


Figure 1: TGA plots of lanthanide complexes with dimethylamino substituted ( $L^1$ ) enaminolate ligand.

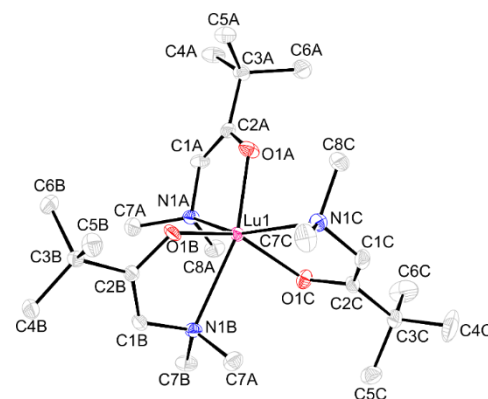


Figure 4: Molecular Structure of  $\text{Lu}(L^1)_3$ .

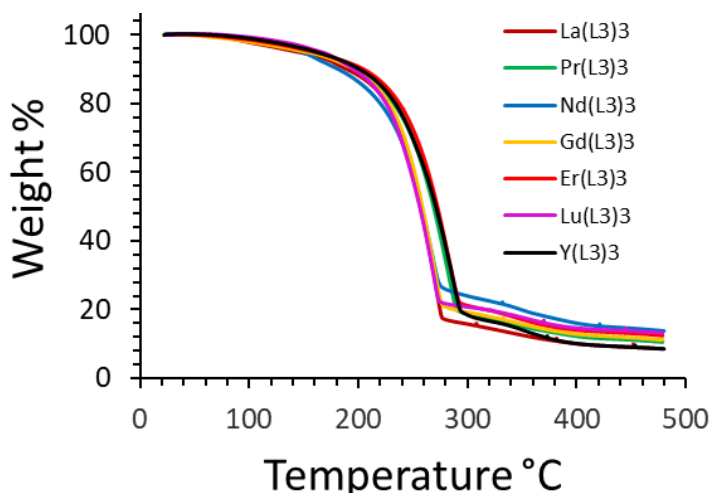


Figure 1: TGA plots of lanthanide complexes with piperidine substituted ( $L^3$ ) enaminolate ligand.

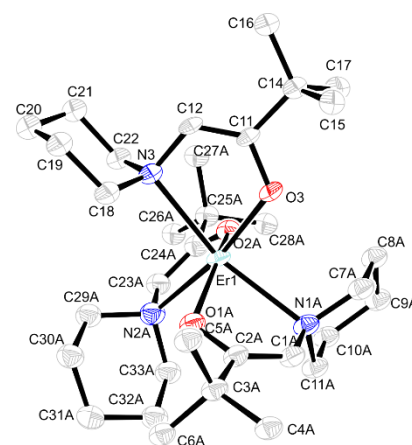


Figure 5: Molecular Structure of  $\text{Er}(L^3)_3$ .

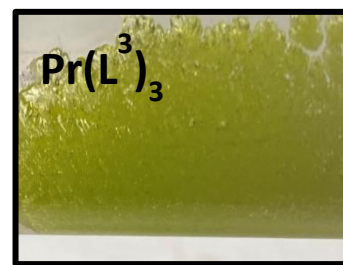
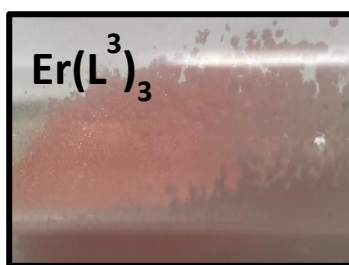
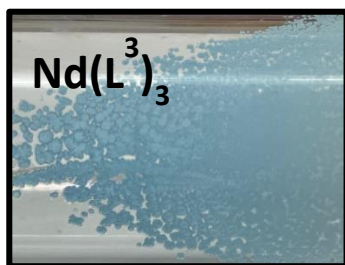


Figure 2: Images of sublimed piperidine substituted ( $L^3$ ) enaminolate complexes of Neodymium, Erbium, and Praseodymium