

The ORTEP diagram illustrates the polymeric structure of the complex. The repeating unit consists of two lanthanide (Ln) centers bridged by three different ligands: a neutral 1,3-bis(4-iodophenyl)propane-1,3-diol molecule, a mono-anionic 1,3-bis(4-iodophenyl)propane-1,3-diolate molecule, and a di-anionic 1,3-bis(4-iodophenyl)propane-1,3-diolate molecule. The lanthanide centers are coordinated by the oxygen atoms of the diols and the nitrogen atoms of the diolate and triolate ligands. The iodine atoms are shown as thermal ellipsoids at the 50% probability level. The structure is shown as a continuous chain, with the repeating unit indicated by the subscript 'n'.