

The ORTEP diagram illustrates the polymeric structure of the complex. It features a central core of two lanthanide (Ln) ions bridged by two hydroxide (OH) groups and two water (H2O) molecules. This core is further coordinated by two sulfate (SO4) groups and two 2,2',2''-trimesic acid (TMA) ligands. The TMA ligands act as tridentate chelators, with their three carboxylate groups coordinating to the Ln ions. The diagram shows the connectivity of the polymer chain, with the repeating unit highlighted by a dashed box. The structure is characterized by a high degree of symmetry and coordination, typical of lanthanide complexes.