

The diagram illustrates a complex coordination polymer or cluster. It features a central chain of lanthanide (Ln) ions connected by various ligands. Key components include:

- Carboxylate groups:** Several $\text{C}-\text{H}_3$ groups are shown, likely representing carboxylate ligands coordinated to the Ln ions.
- Amine groups:** Nitrogen atoms (N) are present, some coordinated to Ln ions and others part of amine ligands.
- Sulfur bridges:** Sulfur atoms (S) act as bridges between different Ln-containing units.
- Oxygen bridges:** Oxygen atoms (O) are also involved in bridging between Ln ions.
- Chelating ligands:** Some ligands, like the one with two N atoms and two S atoms, act as bidentate or chelating ligands for the Ln ions.

The overall structure is highly branched and represents a complex coordination environment for the lanthanide ions.