

Synthesis and Structural Characterization of a New Two-Dimensional Polymeric Thallium(I) Complex, $[\text{Tl}_2(\text{phthalate})]_n$

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Determination of the structure of the $[\text{Tl}_2(\text{phthalate})]$ by X-ray crystallography shows that there are six (TlO_6) and five (TlO_5) coordinate Tl atoms. The complex is a two-dimensional coordination polymer.

Key words: Thallium, Crystal Structure, Lone Pair of Electron, Phthalate Ligand