Synthesis, Characterization of a Novel Compound SnEr$_2$O$_4$

The thermal decomposition of the precursor is divided into three steps.

\[
\text{SnEr}_2(C_2O_4)_4 \cdot 3\text{H}_2\text{O} \xrightarrow{120 \degree C} \text{SnEr}_2(C_2O_4)_4 + 3\text{H}_2\text{O}
\]

\[
\text{SnEr}_2(C_2O_4)_4 \xrightarrow{300 \degree C} \text{SnEr}_2\text{O}_3\text{CO}_3 + 4\text{CO} + 3\text{CO}_2
\]

\[
\text{SnEr}_2\text{O}_3\text{CO}_3 \xrightarrow{560 \degree C} \text{SnEr}_2\text{O}_4 + \text{CO}_2
\]

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