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Synthesis of Hydrotalcite-like Compound Pillared by Hetero-polyacid Anions in a Hydrothermal System

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摘要 Hetero-polyacid anions (PW12O40³⁻)-pillared hydrotalcite-like compound is directly and hydrothermally synthesized by the hot solution method. FTIR and XRD show that PW12O40³⁻ has been incorporated into the interstitial space with the dimension of 0.917 nm. The state of PW12O40³⁻ anion between the hydrotalcite sheets was also discussed. The title product can be expressed by formula $[Zn_{0.68}Al_{0.32}(OH)_2] \times [PW_{12}O_{40}] \cdot 0.11 \times 3H_2O$ after a serious study of TGA and chemical analysis.

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