

lanthanoids

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New Rare-Earth Tellurium Oxochlorides: Synthesis and X-Ray Diffraction Characterization.

— A series of new rare-earth tellurium oxochlorides, $\text{Ln}_2\text{TeO}_4\text{Cl}_2$ (Ln: Sm, Gd, Er), LnTeO_3Cl (Ln: La, Nd, Sm, Gd, Er, Lu) and $\text{LnTe}_2\text{O}_5\text{Cl}$ (Ln: La, Nd, Sm, Gd, Er, Lu), are synthesized by heating of appropriate mixtures of $\text{LnOCl}-\text{TeO}_2$ at 700°C or 500°C in a sealed tube. Their crystal structures and the parameters of their unit cells are established by X-ray structure analyses. — (NIKIFOROV, G. B.; BERDONOSOV, P. S.; DOLGIKH, V. A.; POPOVKIN, B. A.; Zh. Neorg. Khim. 42 (1997) 11, 1785-1789; Moskovskii gos. univ. im. Lomonosova, Moskva 119899, Russia; RU)