

## **THERMAL SYNTHESIS OF THE $\text{CeO}_2\text{--PrO}_2\text{--La}_2\text{O}_3$ PIGMENTS**

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### **Abstract**

The synthesis of new compounds based on  $\text{CeO}_2\text{--PrO}_2\text{--La}_2\text{O}_3$ , which can be used as pigments for colouring of ceramic glazes, is investigated in our laboratory. The optimum conditions for the syntheses of these compounds have been estimated. The first information about the temperature region of the formation of the pigments investigated is provided by thermal analysis. The synthesis of these compounds is followed by thermal analysis using STA 449/C Jupiter (Netzsch, Germany).

**Keywords:** ceramic pigments, optical properties, solid solutions  $\text{CeO}_2\text{--PrO}_2$ , thermal analysis