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Influence of the experimental conditions on the dehydration kinetics of $K(NbW)O_6 \cdot H_2O$

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Abstract

The influence of the experimental conditions on the calculated kinetic parameters of the thermal dehydration of $K(NbW)O_6 \cdot H_2O$ were studied using quasi-isothermal (Q-TGA) and high resolution (TGA Hi-Res) thermogravimetric techniques. The dependence of E_a shows the importance of the partial pressure of the gaseous product (PH_2O) in the vicinity of the reactant. The results show the limited validity of kinetic data calculated from experiments carried out under arbitrary chosen conditions, although the experimental conditions are strictly controlled.

Keywords

isoconversion method; dehydration kinetics; high resolution thermogravimetry, quasi-isothermal thermogravimetry, influence of experimental conditions.

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