

عنوان مقاله:

Hydrothermal Synthesis of Phillipsite from Natural Clinoptilolite

محل انتشار:

همایش بین المللی ژئولیت ایران (سال: 1387)

تعداد صفحات اصل مقاله: 5

نویسندگان:

Faramarz Tutti - *School of Geology, University Collage of Science, University of Tehran, Tehran, Iran*

Mohammad Kharamesh - *School of Chemistry, University Collage of Science, University of Tehran, Tehran, Iran*

alireza badei - *School of Chemistry, University Collage of Science, University of Tehran, Tehran, Iran*

mohamad ali barghi - *School of Chemistry, University Collage of Science, University of Tehran, Tehran, Iran*

خلاصه مقاله:

Clinoptilolite transforms to phillipsite under hydrothermal conditions in presence of alkaline fluids. The effect of Na⁺ and K⁺ concentrations, temperature and run duration are being considered as the variable parameters in the present study. Alkaline solutions were used in concentration of 1.25 up to 7.5 mol/lit under temperatures of 100 and 150 °C. Results of this study show for the first time that phillipsite is synthesized at 100 and 150 °C and high concentration of K⁺ Cations. Powder X-ray diffraction study has revealed a monoclinic (pseudo-orthorhombic) symmetry with the unit-cell parameter of: a: 10.104 Å, b: 14.305 Å, c: 14.618 Å, β: 91.401° for phillipsite

کلمات کلیدی:

clinoptilolite, phillipsite, hydrothermal synthesis, alkaline solution

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/66214>

