عنوان مقاله:

Synthesis and Characterization of Submicron SAPO-34 Using TEOS as Silica Source

محل انتشار:

همایش بین المللی ژئولیت ایران (سال: 1387)

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خلاصه مقاله:

SAPO-34 molecular sieves were successfully synthesized using TEOS (Tetraethyl orthosilicate) as a silica source. The influence of hydrothermal synthesis duration on the final product purity was investigated. Pure SAPO-34 could be obtained while duration of hydrothermal synthesis will be more than 40 hours at 458 K. The products were characterized by XRD patterns and FT-IR spectra techniques. It was found that SAPO- 34 synthesis with TEOS as silica source will produce smaller particles than conventional procedures for SAPO-34 synthesis do on view of the fact that TEOS will generate Ethanol as a by product of hydrolyze process, and it will act as a surfactant which is the main .reason for SAPO-34 particles size reduction

کلمات کلیدی: Synthesis, SAPO-34, TEOS, Hydrothermal duration

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