

## عنوان مقاله:

Synthesis of Analcime using N,N'-dibenzyl-N,N,N',N'-tetramethyl ethylene diamine (DBTMED) as structure directing agent

## محل انتشار:

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## نویسندگان:

m Yousefpour - Analytical Division, Faculty of Chemistry, Mazandaran University, Babolsar, Iran

s.n Azizi - Analytical Division, Faculty of Chemistry, Mazandaran University, Babolsar, Iran

azizi@umz.ac.ir

## خلاصه مقاله:

Hydrothermal synthesis of analcime (ANA) with N,N'-dibenzyl-N,N,N',N'-tetramethyl ethylene diamine (DBTMED) as template was systematically studied. The various parameters that affect the crystallization of analcime, temperature, time, Al source and Si/Al ratio were investigated. Systematic variations of these parameters revealed that this zeolite was obtained from the reaction mixture with the optimized ratio  $\text{SiO}_2/\text{Al}_2\text{O}_3=20$  in presence of DBTMED comparing to those which obtained by template-free clear solution with composition  $\text{SiO}_2/\text{Al}_2\text{O}_3 \geq 110$ . When experiments were conducted at 130 and 150°C for 96 h, a mixture of analcime and zeolite P was present in the samples and a pure analcime sample could be obtained at the range 160 to 180 °C. The products obtained were characterized by XRD, SEM and IR.

## کلمات کلیدی:

analcime, ethylene diamine, zeolite P

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/66245>

