

عنوان مقاله:

Study on the synthesis methods of sodalite membranes and their performance on the gas separation processes

محل انتشار:

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خلاصه مقاله:

Several preparation methods have been developed for the synthesis of sodalite membranes, such as conventional hydrothermal and microwave methods. Sodalite has a six-membered ring aperture with a pore size of 2.8 Å. Only small molecules, such as helium and hydrogen can enter the pore of sodalite. The investigations have shown that sodalite membranes have high performance on separation of hydrogen molecules from gas streams containing hydrocarbone in comparision with small size gas molecules.

کلمات کلیدی:

Sodalite, Membrane, Separation, Hydrogen

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