

## عنوان مقاله:

Evaluating a Reverse Osmosis Membrane for 2-Chlorophenol Removal from Aqueous Solutions

## محل انتشار:

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## خلاصه مقاله:

In this study performance of a commercial reverse osmosis membrane (TW30-1812-100) was evaluated for 2-chlorophenol separation from aqueous solution. Influence of operational conditions such as feed pressure, feed flow rate and concentration on 2-chlorophenol rejection was investigated. The results showed that at optimum condition, 200 mg/L, 408.1 kPa, pH =10 and  $1.953 \times 10^{-5}$  m<sup>3</sup>/s feed flow rate, 79% rejection was attainable. Results showed that the feed flow rate was the most effective parameter on the 2-chlorophenol rejection and rejection was increase with feed flow rate. The study of the influence of feed pressure showed a maximum critical pressure for rejection. However, the study of feed concentration on 2-chlorophenol rejection did not show a constant trend

## کلمات کلیدی:

chlorophenol, aqueous solution, reverse osmosis, separation-2

## لینک ثابت مقاله در پایگاه سیویلیکا:

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