

عنوان مقاله:

A sol-gel based method for preparation of Ni/La-Al₂O₃ as a new catalyst for dechlorination of monochlorobenzene

محل انتشار:

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خلاصه مقاله:

In this study, two new Ni/La-Al₂O₃ catalysts were prepared by a sol-gel method, with different aluminium precursors (aluminium triisopropoxide and aluminium nitrate). The catalysts were characterized by scanning electron microscope (SEM), X-ray fluorescence (XRF), X-ray diffraction (XRD), BET specific surface area, and particle size analysis (PSA) techniques. The BET results showed that the particles obtained from the aluminium nitrate precursor had a larger surface area (203 m²/g). The PSA data showed particle size distributions between 435 and 754 nm for the catalyst prepared from aluminium triisopropoxide. Finally, the catalysts were evaluated for the dechlorination of monochlorobenzene (MCB).

کلمات کلیدی:

,Monochlorobenzene (MCB), Dechlorination, Ni/La-Al₂O₃ catalyst, Sol-gel

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