

عنوان مقاله:

Investigation of the activated carbon efficiency on removal of DNBP from aqueous solution by adsorption method

محل انتشار:

ششمین کنگره بین المللی مهندسی شیمی (سال: 1388)

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خلاصه مقاله:

Activated carbon (AC) has been used for the removal of a typical alkyl dinitro phenol compound, 2-sec-butyl-4,6-dinitrophenol (DNBP), from aqueous solution. Adsorption studies include the effect of contact time, initial solute concentration, adsorbent amount and pH. The results show that the high adsorption capacity and sufficient removal efficiencies can be achieved at an optimum pH of 9, using 0.003 g/L of adsorbent and 20 min of equilibration time. The results indicate that (AC) can be used for the efficient removal of DNBP from aqueous solutions

کلمات کلیدی:

sec-butyl-4,6-dinitrophenol (DNBP) ; activated carbon-2

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