عنوان مقاله:

Removal of Aromatic Compounds from Aqueous Solution of Diethanolamine Using Activated Carbon Adsorption

محل انتشار:

هفتمین کنگره ملی مهندسی شیمی (سال: 1390)

تعداد صفحات اصل مقاله: 6

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خلاصه مقاله:

In the present study, the adsorption of benzene, toluene, ethylbenzene and metaxylene (BTEX) from Diethanolamine (DEA) solution by commercial and granular activated carbon (AC) were performed.The Langmuir, Freundlich and Sips isotherm models were used to describe the equilibrium data. The accuracy of the results obtained from the adsorption isotherm models was compared and the values for the regressed parameterswere reported. The results show that the sips isotherm has better agreement with the experimental data for all AC samples in comparison with the other isotherms.According tothe adsorption isotherm curves obtained from experiments, the amount of adsorption of .metaxylene, ethylbenzene, toluene, benzene increases respectively

کلمات کلیدی:

BTEX, Activated carbon, Adsorption, DEA solution