

Comparison of chemical and thermal regeneration of aromatic compounds on exhausted activated carbon

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摘要.

Abstract

In this investigation, nine typical compounds, i.e., phenol, 2-aminophenol, aniline, 2-chlorophenol, chlorobenzene, -naphthol, naphthalene, -naphthylamine and -chloronaphthalene were introduced to evaluate the effects of the molecular structure and physicochemical properties of these selected adsorbates on the adsorption capacity and desorption efficiency of the activated carbon. Both the thermal and chemical regeneration methods were employed to compare the regeneration efficiencies among these adsorbates and adsorbent.