

RESEARCH NOTES

## 以蔗糖飞灰吸附剂分离废水中的 $\beta$ -萘磺酸

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**摘要** Bagasse fly ash was converted into an inexpensive adsorbent and utilized for the removal of  $\beta$ -naphthalenesulfonic acid in dilute solution. The effect of pH, temperature, adsorbent concentration, and co-existed acids on the removal of  $\beta$ -naphthalenesulfonic acid was examined. The adsorption data have been correlated with both Langmuir and Freundlich adsorption models. Thermodynamic parameters obtained indicate the feasibility of the process, and kinetic studies provided the necessary mechanistic information of the removal process.

**关键词** [adsorption](#) [bagasse fly ash](#)  [\$\beta\$ -naphthalenesulfonic acid](#)

分类号

## Removal of $\beta$ -Naphthalenesulfonic Acid from Aqueous Dilute Solution Using Bagasse Fly Ash

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### Abstract

Bagasse fly ash was converted into an inexpensive adsorbent and utilized for the removal of  $\beta$ -naphthalenesulfonic acid in dilute solution. The effect of pH, temperature, adsorbent concentration, and co-existed acids on the removal of  $\beta$ -naphthalenesulfonic acid was examined. The adsorption data have been correlated with both Langmuir and Freundlich adsorption models. Thermodynamic parameters obtained indicate the feasibility of the process, and kinetic studies provided the necessary mechanistic information of the removal process.

**Key words** [adsorption](#) [bagasse fly ash](#)  [\$\beta\$ -naphthalenesulfonic acid](#)

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