# Adsorption Characteristics of 2,4-DB in a Fixed and Fluidized Beds

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In wastewater treatment, activated carbon is a powerful adsorbent because it has a large surface area and pore volume, which can remove liquid-phase contaminants, including organic compounds, heavy metal ions and coloring matters. In order to design effective activated carbon adsorption units and to develop mathematical models which can accurately describe their operation characteristics, sufficient information on the adsorption and desorption of individual pollutants under different operating conditions is required. The main purpose of this work is to study its adsorption characteristics experimentally as well as theoretically to remove 2,4-DB from aqueous solution using a fixed and fluidized Beds.