

Removal of 2,4,5-Trichlorophenoxy acetic acid using acid treated activated carbon

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2,4,5-Trichlorophenoxyacetic acid (2,4,5-T) is a systemic chlorophenoxy herbicide used widely throughout the world to control broadleaf weeds in cereal cropland and on industrial property, lawns, turf, pastures and non-cropland. It is also used to control aquatic weeds. Chlorophenoxy herbicides, a group including 2,4-D, 2,4,5-T and MCPA, have been classified by IARC as being in Group 2B (possibly carcinogenic in humans). This includes persons employed in production, commercial distribution, packaging and repackaging, as well as other plant protection personnel and those involved in spraying. Moreover, persons living outside the areas of herbicide application can be exposed to certain doses of these compounds through drinking water and food. the main purpose of this work is to study adworption characteristics of 2,4,5-Trichlorophenoxyacetic acid from aqueous solution.