

**TOLUENE REMOVAL FROM CONTAMINATED
AIRBORNE BY USING ACTIVATED CARBON**

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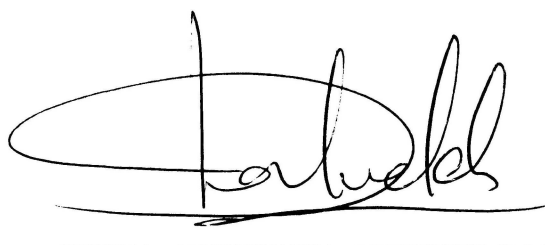
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ABSTRACT

TOLUENE REMOVAL FROM CONTAMINATED AIRBORNE BY USING ACTIVATED CARBON

This study investigates the reduction of concentration of toluene. Air samples were collected in a small booth with 2 m x 2 m x 2 m dimension. Activated carbon has been used as adsorbent to adsorb the evaporated toluene from the contaminated air. The samples were collected 4 times in every 60 minutes period. Then, all the samples were analyzed by using gas chromatography, GC-FID. The final results indicated that the concentration of toluene reduced from 240.00 mg/m³ to 36.25 mg/m³. The percentage reduction of toluene reaching up to 84%. The concentrations of toluene were below the TWA limit which is 375 mg/m³ (100ppm).