

## Heterogeneous Catalytic Ozonation of Diethyl Phthalate

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**Abstract :** The degradation of diethyl phthalate (DEP) was studied using heterogeneous catalytic ozonation. Activated carbon was used as a catalyst. The degradation of DEP with ozone alone was slow while catalytic ozonation increased degradation rates. Second-order reaction kinetics was used to describe the experimental data, and the corresponding rate constant values were 1.19 and 3.94 M<sup>-1</sup>.s<sup>-1</sup> for ozone and ozone/activated carbon respectively.

**Keywords :** ozone, heterogeneous catalytic ozonation, diethyl phthalate, endocrine disrupting chemicals

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