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# Degradation of Dimethyl Sulfoxide through Fluidized-Bed

## Fenton Process

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### Highlights

- Fluidized-bed Fenton resulted in 95.22% DMSO degradation and 34.38% TOC removal.
- The intermediates formaldehyde and methanesulfinic acid affected TOC removal.
- Methanesulfonate was the most difficult to degrade.
- Methanesulfonate contributed most to residual TOC.
- Fluidized-bed Fenton degraded DMSO better than conventional Fenton after 5 h.

### Abstract

Dimethyl sulfoxide (DMSO), one of the most widely used solvent, was subjected to fluidized-bed Fenton oxidation in this study. Fenton oxidation is considered one of the cheapest advanced oxidation processes due to high availability of

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