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Ozonation of indomethacin: Kinetics, mechanisms and toxicity

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Highlights

- Kinetic constants of neutral and anionic IM with O₃ and ·OH were calculated.
- Ozone rather than hydroxyl radical played a dominant role in the ozonation of IM.
- Experiments combined with DFT calculation were used to determine intermediates.
- Six intermediates and three organic acids were found.
- Toxicity of IM against *P. phosphoreum* was completely eliminated.

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