



## 氮杂环化合物喹啉在缺氧条件下降解的影响因素

### Influence Factors of Nitrogenous Heterocyclic Compound - Quinoline Degrad

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#### 中文摘要

通过摇瓶试验研究了缺氧条件下培养驯化污泥缺氧反硝化特性和氮杂环化合物喹啉的去除规律以及pH值、碳氮比和生物铁对喹啉的测定与分析。结果表明: 喹啉的去除主要经过吸附-解吸-降解三步; 反应的最佳pH值范围为7-9; 碳氮比对喹啉的去除影响不大; 氮和氮源进行生物降解。

#### 英文摘要

The anoxic degradation and removal of nitrogenous heterocyclic compound-quinoline, denitrification of acclimated of pH, C/N ratio, bio-ferric on degradation of quinoline under anoxic conditions were studied by flask-shaking tests. and degradation pathway of quinoline in anoxic condition was analyzed. The results indicate that quinoline was removed by adsorption- biodegradation. The optimal range of pH was 7~9. The C/ N ratio was not affect the reduction of quinoline.