

## The improvement of parylene AF4 synthesis process using potassium permanganate

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Parylene is a vapour deposited poly p-xylene polymer which is used for material of protective coatings. Because physical and chemical properties of coatings are highly efficient and of good performance, the parylene coatings are widely used by various industries. There are several kinds of parylene according to the dimer of parylene. Among the kinds of parylene, parylene AF4 dimer has better properties than others. However, production of the parylene AF4 dimer has various problems, and one of the problems is the removal of by-products. To remove the by-products, the by-products should be oxidized by potassium permanganate. We will introduce how effective the method is and how to optimize this process.