Recrystallization process design for parylene AF4 purification

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In the conventional AF4 manufacturing process, AF4 is purified using a methanol washing method. Due to the solubility of AF4 in methanol, problems arise in terms of yield and purity when using methanol washing. In order to increase the purity, if the washing is long, the yield decreases. If the methanol is used in a small amount to increase the yield, the purity becomes low. For this reason, this study will propose a new process to solve this problem. Since the crystallization process is a separation process which can obtain a high purity and yield from the past, the previous process can be improved by using this method. Therefore, the solvent to be used for crystallization is selected and analyzed in terms of yield and purity