

Process control of 1,3-butadiene refining section

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So called 1,3-butadiene process is a selective extractive distillation process that purifies 1,3-butadiene from C4-mixture. It consists of 3 sections ; extractive distillation section, desorption section and refining section. Among them, refining section ultimately controls the quality of product in the last step of whole process.

In this work, we modify the process of 1,3-butadiene refining section by revamping of trays and changing of process conditions. With the simulation result using Aspen Plus, more effective process condition is proposed.