Process configuration for ultra-high-purity propylene glycol monomethyl ether acetate production

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The high purity of propylene glycol monomethyl ether acetate (PGMEA) is essential for making electronic grade accessories in the semicinductor industries. Reactive distillation poses severe operational and hardware limitation in making PGMEA. As an alternative, column with side-reactor configuration appears overwhelming superior in ovecoming the opearational and technical issue of reactive distillation. This work was supported by the Basic Science Research Program through the National Research Foundation of Korea (NRF), funded by the Ministry of Education (2018R1A2B6001566), and by the Priority Research Centers Program through the National Research Foundation of Korea (NRF), funded by the Ministry of Education (2014R1A6A1031189). This research was also supported by the Engineering Development Research Center (EDRC) funded by the Ministry of Trade, Industry & Energy (MOTIE; No. N0000990).