

Figure 1: Overall process with the individual process steps

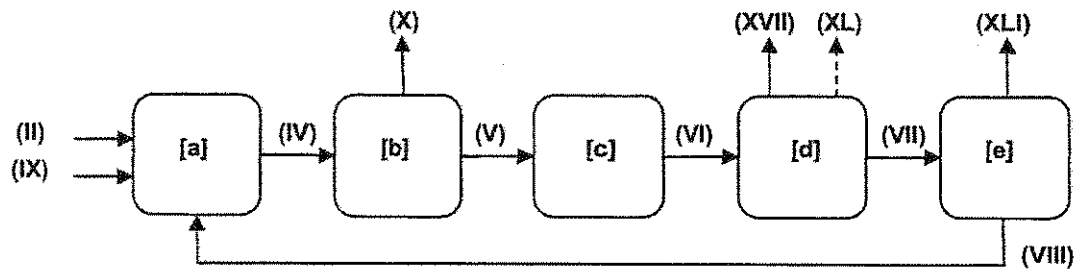


Figure 2: MTBE synthesis, preferred embodiment [a1]

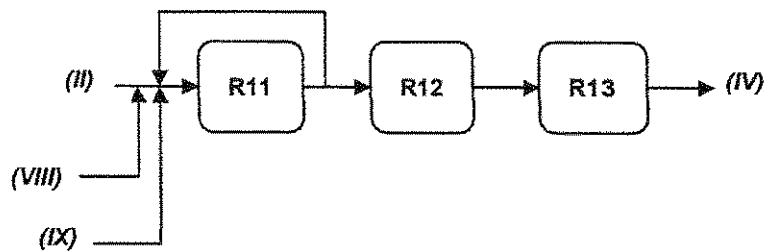


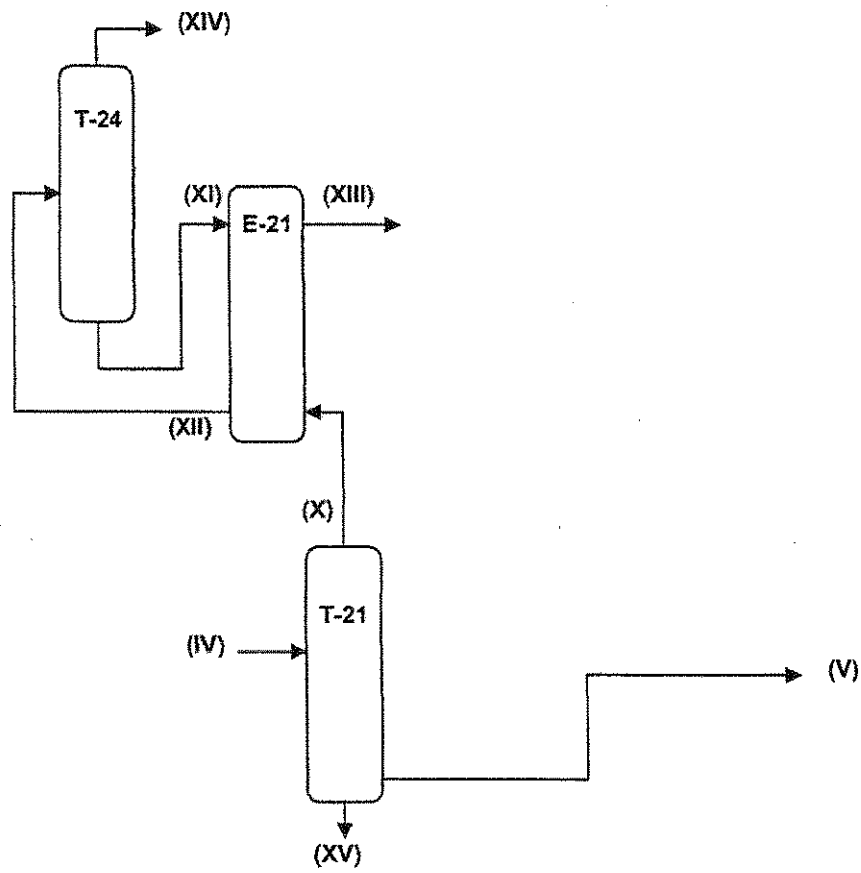
Figure 3: Isolation of MTBE, preferred embodiment [b1]

Figure 4: Isolation of MTBE, preferred embodiment [b2]

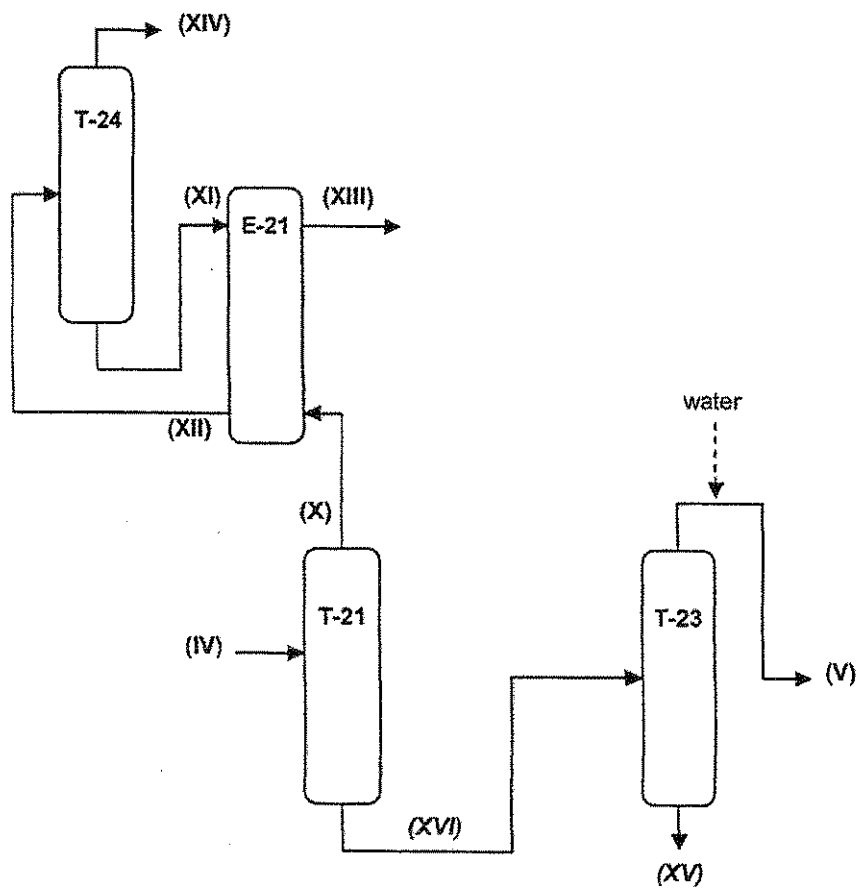


Figure 5: Isolation of MTBE, preferred embodiment [b3]

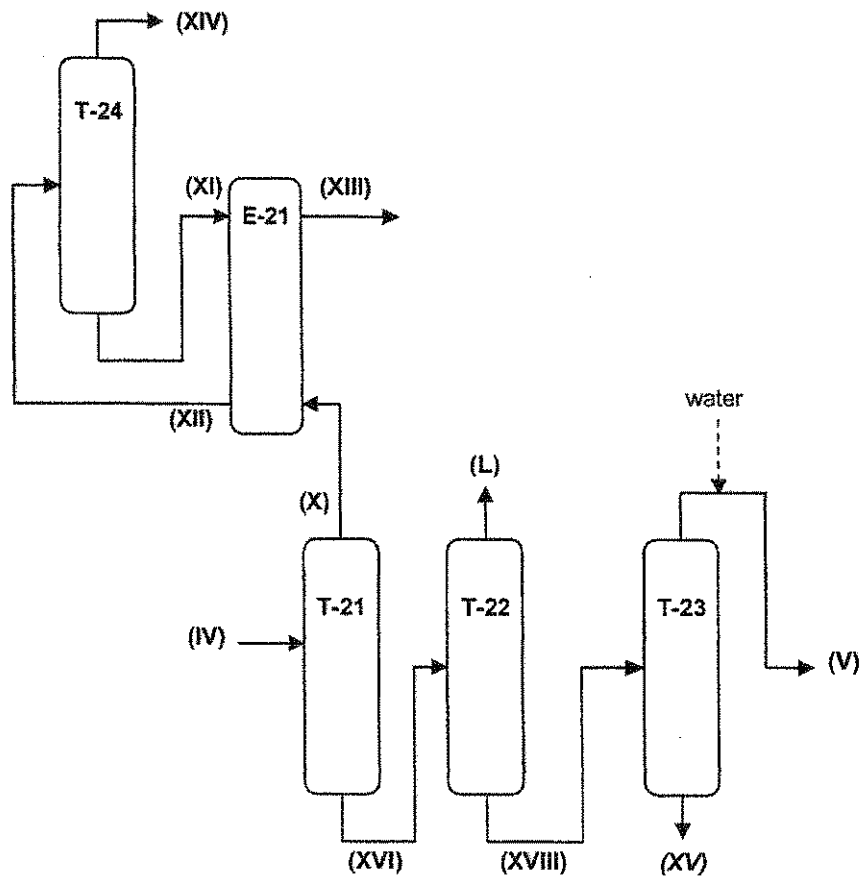


Figure 6: Isolation of MTBE, preferred embodiment [b4]

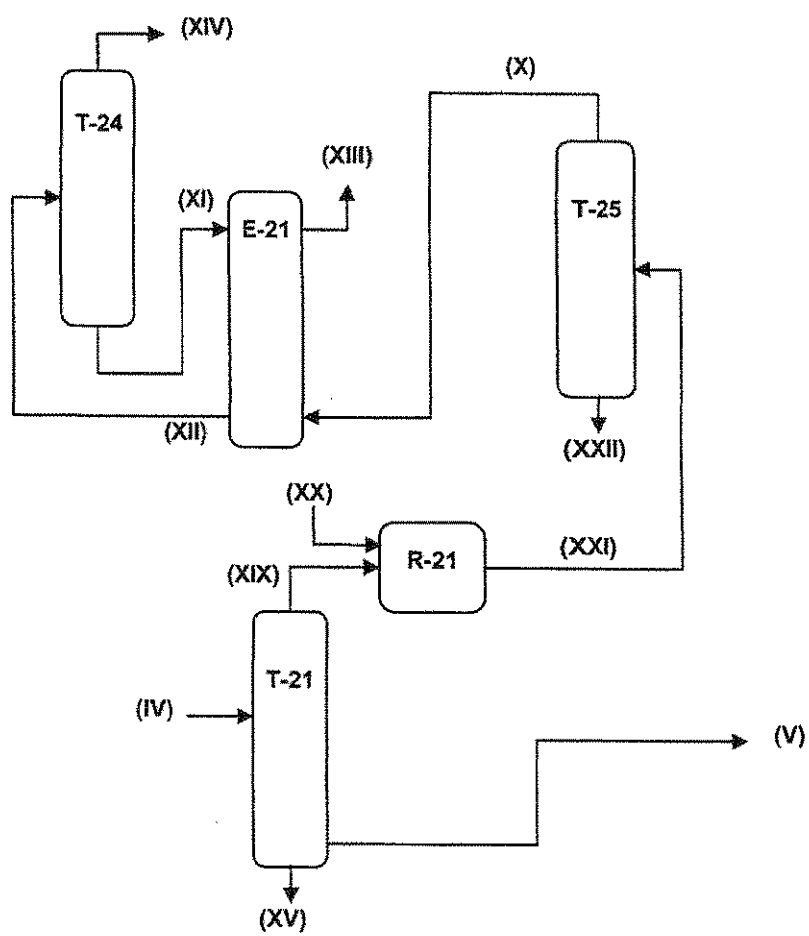


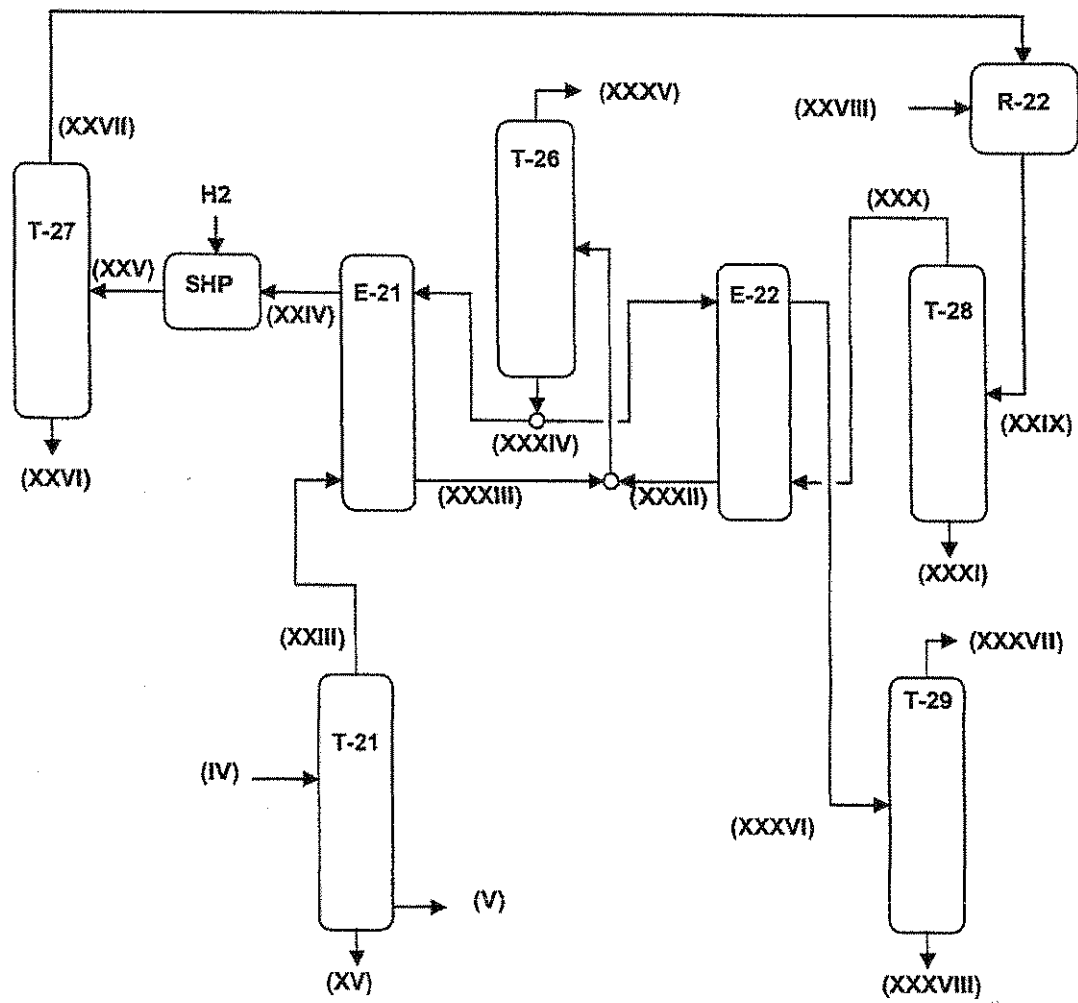
Figure 7: Isolation of MTBE, preferred embodiment [b5]

Figure 8: Isolation of isobutene, preferred embodiment [d1]

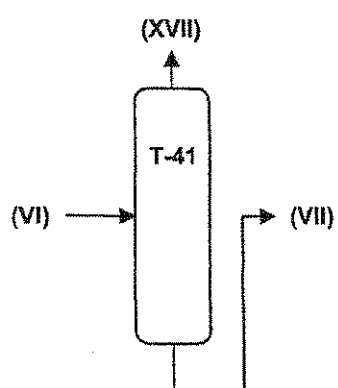


Figure 9: Isolation of isobutene, preferred embodiment [d2]

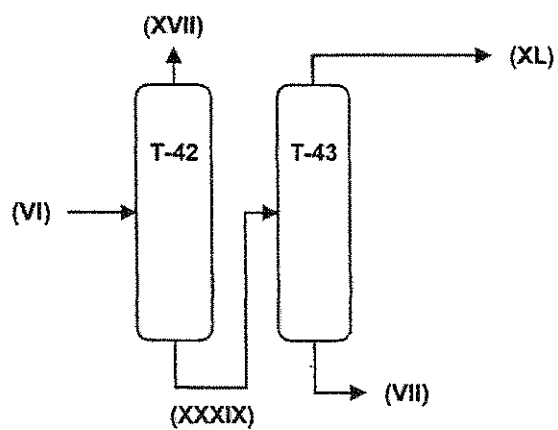


Figure 10: Removal of water, preferred embodiment [e1]

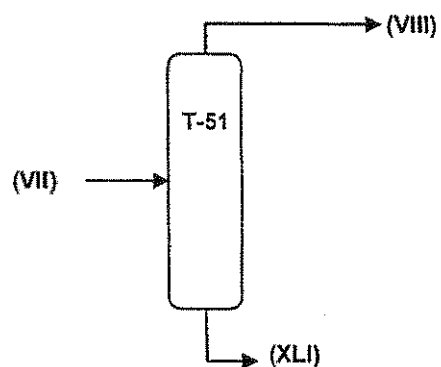


Figure 11: Removal of water, preferred embodiment [e2]

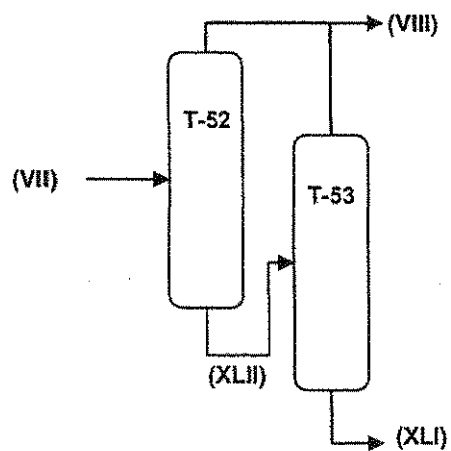


Figure 12: Purification of isobutene