

## **BAB V**

### **KESIMPULAN dan SARAN**

#### **5.1 Kesimpulan**

Kesimpulan yang didapat dari penelitian ini adalah :

1. Nilai TAC paling optimum adalah sebesar \$ 287.777.
2. TAC paling optimum terdapat pada jumlah tahap *enriching* 11 dan jumlah tahap *stripping* 1.
3. Produksi etil asetat dengan reaksi tambahan etilen glikol menghasilkan TAC lebih rendah 84,77% dibandingkan produksi etil asetat dengan distilasi reaktif dua kolom.
4. Semakin banyak jumlah *enriching*, biaya kapital, biaya energi, dan TAC semakin besar.
5. Semakin banyak jumlah *stripping*, biaya kapital dan TAC semakin besar sedangkan biaya energi semakin kecil.

#### **5.2 Saran**

Saran yang bisa ditujukan untuk penelitian selanjutnya adalah :

1. Mencari katalis yang selektif bagi reaksi esterifikasi etil asetat dan reaksi hidrasi etilen glikol agar tidak terdapat produk samping.
2. Melanjutkan penelitian ke arah dinamika proses dan pengendalian proses.

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