

BAB V

KESIMPULAN DAN SARAN

5.1 Kesimpulan

Kesimpulan yang diperoleh dari penelitian ini adalah:

1. Pemodelan proses berhasil dibuat dan dapat dijalankan dengan bantuan Aspen Plus menggunakan Radfrac.
2. Hasil simulasi perlu ditinjau dan divalidasi kembali karena terdapat perbedaan angka dengan literatur yang didapatkan.
3. Semakin tinggi *reflux ratio* membuat nilai fraksi massa etil asetat semakin besar.
4. Laju keluaran *side stream* tidak berpengaruh terhadap fraksi massa butil asetat keluaran *side stream*.
5. *Reboiler duty* yang semakin besar membuat fraksi massa asam asetat semakin besar pada *bottom product*.
6. Rasio komposisi umpan mempengaruhi fraksi massa dari keluaran produk utama.

5.2 Saran

Saran yang dapat diberikan untuk penelitian ini adalah:

1. Perlu adanya peninjauan kembali mengenai *reboiler duty* karena nilainya yang terlalu kecil sehingga tidak dapat mencapai suhu yang diinginkan.
2. Perlu adanya peninjauan kembali mengenai komposisi umpan campuran yang terdiri dari asam asetat dan butil alkohol.

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