

## BAB 5

### KESIMPULAN DAN SARAN

#### 5.1 Kesimpulan

Berdasarkan dari penelitian yang telah dilakukan, dapat disimpulkan:

1. Reaksi antara asetofenon dan 4'-nitrobenzaldehyd menjadi 4'-nitrokhalkon dapat disintesis dengan bantuan iradiasi gelombang mikro pada daya 160 W selama 2 menit dan rendemen yang dihasilkan sebesar  $58,19\% \pm 1,052\%$ .
2. Reaksi antara 2,4-dimetoksiasetofenon dan 4'-nitrobenzaldehyd menjadi 2,4-dimetoksi-4'-nitrokhalkon tidak dapat disintesis dengan kondisi yang sama dengan senyawa 4'-nitrokhalkon.
3. Adanya substituen metoksi pada 2,4-dimetoksiasetofenon dapat mempersulit reaksi ditinjau dari rendemen yang dihasilkan yaitu sebesar  $19,07\% \pm 0,063\%$ .

#### 5.2 Saran

1. Untuk penelitian selanjutnya dapat dilakukan sintesis dengan menggunakan daya yang lebih besar pada *microwave* ditambah penggunaan NaOH yang lebih pekat agar didapatkan rendemen yang lebih besar.
2. Untuk penelitian selanjutnya dapat dilakukan penentuan pelarut yang sesuai untuk rekristalisasi.
3. Penelitian ini dapat dikembangkan lebih lanjut untuk mengetahui efek farmakologis dari senyawa 4'-nitrokhalkon dan 2,4-dimetoksi-4'-nitrokhalkon.

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