

## BAB V

### KESIMPULAN DAN SARAN

#### 5.1 Kesimpulan

- 5.1.1. Reaksi antara asetofenon dan 2-nitrobenzaldehyd tidak dapat menghasilkan senyawa turunan khalkon melainkan senyawa 3-hidroksi-3-(2-nitrofenil)-1-fenilpropan-1-on dengan metode konvensional (64,70%) dan iradiasi gelombang mikro (34,63%).
- 5.1.2. Reaksi antara 2,4-dimetoksiasetofenon dan 2-nitrobenzaldehyd tidak dapat menghasilkan senyawa turunan khalkon melainkan senyawa 3-hidroksi-1-(2,4-dimetoksifenil)-3-(2-nitrofenil)propan-1-on dengan metode konvensional (19,66%) dan iradiasi gelombang mikro (12,20%).
- 5.1.3. Adanya gugus metoksi pada 2,4-dimetoksiasetofenon dapat menurunkan kereaktifan asetofenon pada pembentukan senyawa II.

#### 5.2 Saran

- 5.2.1. Penelitian berikutnya untuk sintesis senyawa 2'-nitrokhalkon dan 2,4-dimetoksi-2'-nitrokhalkon sebaiknya digunakan katalis asam karena dalam katalis basa berlebih dapat terjadi reaksi *Baeyer-Drewsen*.
- 5.2.2. Meningkatkan daya gelombang mikro yang diiradiasikan atau dengan meningkatkan waktu sintesis untuk sintesis senyawa 2,4-dimetoksi-2'-nitrokhalkon dengan bantuan iradiasi gelombang mikro.

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