

BAB 5

KESIMPULAN

5.1 Kesimpulan

1. Reaksi dari 4-hidroksibenzaldehida dan sikloheksanon dalam katalis asam dengan bantuan iradiasi gelombang mikro pada 480W selama 18 menit menghasilkan senyawa 2,6-bis((*E*)-4-hidroksibenziliden)sikloheksan-1-on dengan rendemen $67,33\% \pm 4,11\%$.
2. Secara konvensional reaksi antara 4-hidroksibenzaldehida dan sikloheksanon dalam katalis asam menghasilkan senyawa 2,6-bis((*E*)-4-hidroksibenziliden)sikloheksan-1-on, dengan suhu 50°C dan pengadukan selama 90 menit dengan rendemen $63,67\% \pm 4,19\%$.
3. Ditinjau dari rendemen hasil sintesis 2,6-bis((*E*)-4-hidroksibenziliden)sikloheksan-1-on kedua metode menghasilkan rendemen yang tidak berbeda jauh namun dari waktu lama reaksi iradiasi gelombang mikro lebih efisien dibandingkan dengan metode konvensional.

5.2 Saran

1. Disarankan pada sintesis senyawa 2,6-bis((*E*)-4-hidroksibenziliden)sikloheksan-1-on dengan 2 mmol 4-hidroksibenzaldehida, 1 mmol sikloheksanon dan menambahkan jumlah HCl menjadi 2 mmol pada metode iradiasi gelombang mikro dan secara konvensional.

2. Disarankan senyawa 2,6-bis(*E*)-4-hidroksibenziliden)sikloheksan-1-on perlu dilakukan uji aktivitas untuk mengetahui efek antioksidan.

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