



BAB V

KESIMPULAN DAN SARAN

5.1 Kesimpulan

Berdasarkan percobaan yang telah dilakukan, dapat disimpulkan bahwa:

1. Konstanta laju degradasi zat warna Drimaren Dark Red (DDR) dengan metode UV/H₂O₂ mengikuti pseudo orde 1 semu.
2. Kondisi maksimum degradasi zat warna Drimaren Dark Red (DDR) dengan konsentrasi 50 ppm adalah pada nilai pH 3,02 dan konsentrasi H₂O₂ sebesar 0,3% w/w.
3. Pada kondisi optimum, % removal zat warna Drimaren Dark Red (DDR) sebesar 76,02%.

5.2 Saran

1. Kondisi pH pada larutan harus presisi dan mendekati pH variasi yang digunakan.
2. Pengadukan HNO₃ dengan limbah untuk menurunkan pH harus baik dan homogen, agar pH di seluruh bagian limbah sama.
3. Dilakukan pengujian dengan limbah cair hasil pencelupan dari industri agar dapat diaplikasikan secara nyata.
4. Dilakukan penelitian lebih lanjut dengan variasi pH ≤ 3 dan variasi konsentrasi H₂O₂ $\leq 0,3\%$ w/w supaya bisa mendapatkan kondisi optimumnya.



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