

ABSTRAK

Sintesis Senyawa 2,4-diklorobenzoiltiourea dari 2,4-diklorobenzoil klorida dan Tiourea Melalui Proses Refluks

Senyawa 2,4-diklorobenzoiltiourea disintesis melalui reaksi asilasi antara tiourea dan 2,4-diklorobenzoil klorida dengan menggunakan pelarut tetrahidrofur. Sintesis senyawa tersebut dilakukan melalui proses refluks selama 5 jam dan dilanjutkan dengan pemanasan untuk menghilangkan pelarut. Persentase hasil sintesis adalah 67,86%. Kemurnian hasil sintesis ditunjukkan dengan adanya noda tunggal pada KLT dan jarak lebur yang sempit. Berdasarkan hasil identifikasi struktur dengan spektroskopi UV, spektroskopi IM, spektroskopi ¹H-RMI, dan KG-SM menunjukkan struktur senyawa hasil sintesis 2,4-diklorobenzoiltiourea sesuai dengan yang diharapkan.

Kata Kunci : 2,4-diklorobenzoiltiourea, sintesis, refluks.

The synthesis of 2,4-dichlorobenzoylthiourea from 2,4-dichlorobenzoyl chloride and Thiourea Through Reflux's Process

The synthesis of 2,4-dichlorobenzoylthiourea was carried out by acylating thiourea with 2,4-dichlorobenzoyl chloride in tetrahydrofuran. The synthesis of 2,4-dichlorobenzoylthiourea through reflux's process for 5 hours and were continued with heating to evaporate the solvent. The percentage of the synthesis were 67,86%. The purity of the synthesized products were shown by the single spot on the TLC and narrow range of melting point. Based on the structure identification with UV spectroscopy, IR spectroscopy, and ¹H-NMR spectroscopy and GC-MS results, it showed the structure of the synthesized products were appropriate to the prediction.

Key Word : 2,4-dichlorobenzoylthiourea, synthesis, reflux.