In this research, synthesis 1,3-dibenzyolthiourea was done by using two different ways, which were one step and two steps acylation. The one step acylation was done by reacting thiourea and benzoyl chloride in 1:3 mole equivalency to give 1,3-dibenzyolthiourea directly, while the two steps acylation was conducted by reacting thiourea with benzoyl chloride to give benzoylthiourea which was re-reacted with benzoyl chloride to generate 1,3-dibenzyolthiourea. Purification of compound was done by preparative layer chromatography to give white and odorless crystals.

The identification of the resulted compound was done by TLC test, melting point test, UV-Vis spectrophotometry, FT-IR spectrophotometry and $^1$H-NMR spectrometry. Identification showed that the resulted compound was a new compound which was posses -NH group, C=O ester group, and phenyl with para substitution. These methods gave average yield for this compound 12.68% for the one step acylation and 4.41% for the two steps acylation.

Keywords: 1,3-dibenzyolthiourea, acylation, thiourea, benzoylthiourea