

INTISARI

APRIYANTO, A.I., 2013, SINTESIS SENYAWA 3-(4-KLOROFENIL)-1-(4-PIRIDINIL)PROP-2-EN-1-ON DARI *p*-KLOROBENZALDEHID DAN *p*-ASETILPIRIDIN. SKRIPSI. FAKULTAS FARMASI. UNIVERSITAS SETIA BUDI. SURAKARTA.

Kalkon adalah prekursor flavonoid dalam sistem α,β -tak jenuh karbonil dimana ketiga karbon bergabung dengan dua cincin. Penelitian ini bertujuan untuk mensintesis senyawa 3-(4-klorofenil)-1-(4-piridinil)prop-2-en-1-on menggunakan metode Claisen-Schmidt antara *p*-klorobenzaldehid dengan *p*-asetilpiridin menggunakan katalis NaOH dengan pelarut etanol.

Senyawa 3-(4-klorofenil)-1-(4-piridinil)prop-2-en-1-on dengan material awal *p*-klorobenzaldehid dengan *p*-asetilpiridin menggunakan katalis basa NaOH dalam pelarut etanol pada suhu kamar. Pengujian kemurnian senyawa menggunakan kromatografi lapis tipis, uji titik lebur, kromatografi gas, spektrometer massa, spektrometer UV, dan spektrometer IR.

Hasil menunjukkan bahwa senyawa 3-(4-klorofenil)-1-(4-piridinil)prop-2-en-1-on berhasil disintesis dengan material awal *p*-klorobenzaldehid dan *p*-asetilpiridin menggunakan katalis NaOH dalam pelarut etanol. Uji kemurnian menunjukkan senyawa tidak murni dan elusidasi struktur menunjukkan struktur kimia sesuai dengan perkiraan dengan yield sebesar 89,05%.

Kata kunci : sintesis 3-(4-klorofenil)-1-(4-piridinil)prop-2-en-1-on, NaOH
p-klorobenzaldehid, *p*-asetilpiridin

ABSTRACT

APRIYANTO, A.I., 2013, SYNTHESIS OF 3-(4-CHLOROPHENYL)-1-(4-PHYRIDINYL)PROP-2-EN-1-ONE FROM *p*-CHLOROBENZALDEHYDE AND *p*-ASETHYLPYRIDIN, SKRIPSI, FACULTY OF PHARMACY, SETIA BUDI UNIVERSITY, SURAKARTA

Chalcone is a precursor of flavonoid's in the system α,β -unsaturated carbonyl carbon where the third joining the two aromatic rings have several biological activities as antibacterial, as antimicrobial, anticancer, antioxidant, anti-inflammatory and antimalarial. This study aims to synthesize the compound 3-(4-chlorophenyl)-1-(4-pyridinyl)prop-2-en-1-on Chlaisen-Schmidt method between *p*-acetylpyridyn and *p*-chlorobenzaldehyde used NaOH as catalyst in ethanol solution.

The compound 3-(4-chlorophenyl)-1-(4-pyridinyl)prop-2-en-1-on with the initial material with *p*-acetylpyridyn and *p*-chlorobenzaldehyde, NaOH was used as catalyst in ethanol at room temperature. Thin layer chromatography, melting point test, gas chromatography, mass spectrometry, UV spectrometer, and IR spectrometer was used as Purity Test of compounds metode

The results showed that the compound 3-(4-chlorophenyl)-1-(4-pyridinyl)prop-2-en-1-on has been successfully synthesized by the chemical structures that have been estimated. Purity Test of compounds metode showed that the compound hasn't pure, and than with structure elusidation the compound have yield 89,05%.

Keywords : Synthesis of 3 - (4-chlorophenyl) -1 - (4-pyridinyl) prop-2-en-1-one, NaOH, *p*-chlorobenzaldehyd, *p*-asetilpyridine