***ONE-POT SYNTHESIS* SENYAWA BASA SCHIFF 5-ALIL-3-METOKSI-N-VINILIDEN-2-(VINILOKSI)ANILIN DARI EUGENOL**

**(2-METOKSI-4-(2-PROPENIL) FENOL) DENGAN KATALIS TIMAH (Sn)**

**ABSTRAK**

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Telah dilakukan studi awal sintesis senyawa basa schiff (imina) dari nitro eugenol melalui reaksi *one-pot synthesis*. Penelitian ini bertujuan untuk membentuk suatu senyawa basa schiff dari nitro eugenol yang merupakan turunan eugenol. Senyawa basa schiff terbentuk melalui reaksi reduksi dan adisi dengan mengadopsi metode *one-pot synthesis* (Rao., dkk, 2014). Untuk memperoleh produk basa schiff dari reaksi reduksi dan adisi melalui *one-pot synthesis* terhadap nitroeugenol, dilakukan beberapa tahapan reaksi yakni dimulai dari ekstraksi daun cengkeh kering, isolasi eugenol dari daun cengkeh kering, nitratasi eugenol, sintesis basa schiff dengan *one-pot synthesis*. Katalis Sn (timah ) berperan dalam proses reduksi nitro eugenol membentuk senyawa intermediet amino eugenol. Hasil sintesis yang diperoleh dianalisis menggunakan KLT dan instrumen GC-MS. Berdasarkan analisis GC-MS diperoleh 2 puncak senyawa utama yaitu puncak fragmentasi 229 m/z yang menunjukkan senyawa tersebut adalah 5-Alil-3- Metoksi-N-Viniliden-2-(Viniloksi)Anilin, puncak fragmentasi 164 m/z adalah senyawa 2-Metoksi-4-(2-Propenil)Fenol.

***Kata kunci: One-pot synthesis, basa schiff (imina), 5-alil-3-metoksi-N-viniliden-2-(viniloksi)anilin, Katalis timah (Sn),* GC-MS.**

**ONE-POT SYNTHESIS OF SCHIFF BASE COMPOUND (5-ALLYL-3-METHOXY-N-VINYLIDENE-2-(VINYLOXY)ANILINE) FROM EUGENOL (2-METOKSI-4-(2-PROPENIL) FENOL) WITH TIN (Sn) AS CATALYS**

**ABSTRACT**

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a preliminary study synthesis of schiff base compound from nitro eugenol through one-pot synthesis reactions have been conducted. The aim of this research to form schiff base from nitro eugenol compound which is a derivative eugenol. Schiff base compound formed through reduction and addition reactions to adopted the one-pot synthesis method Rao et al., (2014). To obtain a Schiff base product of reduction and addition reaction by one-pot synthesis of the nitro eugenol, the reaction carried out several stages starting from the extraction of dried clove leaves, isolation of eugenol from dry clove leaves, nitration eugenol and then synthesis of Schiff base with a one-pot synthesis method. The catalyst Sn (tin) role in the process of reduction of nitro compounds to form intermediates amino eugenol. Synthesized obtained was analyzed by TLC and GC-MS instrument. Based on GC-MS analyzes the peak of the compound obtained two main fragmentation peaks of 229 m/z which shows the compound is 5-Allyl-3-Methoxy-N-vinylidene-2-(Viniloksi)Anilin, fragmentation peak 164 m/z is 2-methoxy-4- (2-propenyl)phenol.

***Key words: One-pot synthesis, schiff base (imine), 5-allyl-3-methoxy-N-vinylidene-2-(vinyloxy)aniline, catalyst tin (Sn), GC-MS.***

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