

- HYDROGENATION  
- NICKEL CATALYST

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**SKRIPSI**

**NUR CHAULAH**

**PENGARUH GUGUS METOKSI PADA REAKSI  
HIDROGENASI ASAM SINAMAT, ASAM *o*-  
METOKSISINAMAT DAN ASAM  
*p*-METOKSISINAMAT DENGAN PEREAKSI RANEY  
NICKEL DALAM NaOH**



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PERPUSTAKAAN  
UNIVERSITAS AIRLANGGA  
SURABAYA**

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**2004**

Lembar pengesahan

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## ABSTRACT

This research was aimed to synthesize phenylpropanoic acid compounds through the hydrogenation of the corresponding cinnamic acids with Raney Nickel catalyst in NaOH 5 %. The purified resulted compounds were tested by melting range test and thin layer chromatography test. Structural identification of the products were carried out by UV-Vis and FT-IR and NMR spectroscopy.

Methoxy substituted cinnamic acid decreased the reaction yield through resonance effect and methoxy group at ortho- and para- position decreased the reaction yield through steric hindrance.

Keywords : Hydrogenation, Raney Nickel, NaOH 5 %, resonance effect, steric hindrance factor