

ABSTRACT

SYNTHESIS AND CHARACTERIZATION OF CATALYST MANGANESE (II) USING GRAFTING PROCESS TO SILICA MESOPOROUS MODIFICATION

BY

VANELLA INDAH PRATIWI

1110412028

ADMI,M.Si., Prof. Dr. SYUKRI ARIEF, M.Eng

Synthesis and characterization of manganese catalyst (II) by the process of grafting on silica mesoporous modifications was using extraction method has been successfully performed. Silica mesoporous activated at temperature 200°C for 3 hours and modified using aniline and BF_3 to produce a support. The amobilat was characterized using FT-IR, SEM and AAS where the results of FT-IR absorption band occurrence of shifting from regional to larger wave numbers caused by the grafted metal transition into a modified support silicamesoporous. Aas measurement results the value of metal loading is 67.60 % and the value of metal leaching is 0.006 %. The results of metal loading and metal leaching is expected to produce a catalyst with high catalytic.

Keywords: *Grafting, silicamesoporous, modified silica, metal loading, metal leaching*

