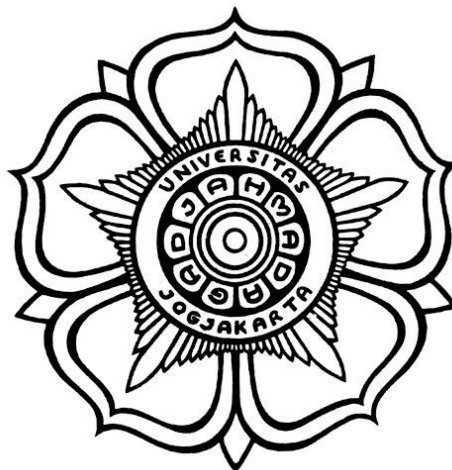


MASTER THESIS

**SYNTHESIS OF SULFONIC ACIDS MODIFIED SILICA COATED ON
MAGNETITE AND ENVIRONMENTAL CONTROL WITH
ORGANOSILANES FOR CATALYST OF ETHYL ACETATE HYDROLYSIS**

SINTESIS SILIKA TERMODIFIKASI ASAM SULFONAT TERLAPIS
MAGNETIT DAN KONTROL LINGKUNGAN DENGAN ORGANOSILAN
UNTUK KATALIS HIDROLISIS ETIL ASETAT



ANI QOMARIYAH
15/388406/PPA/04845

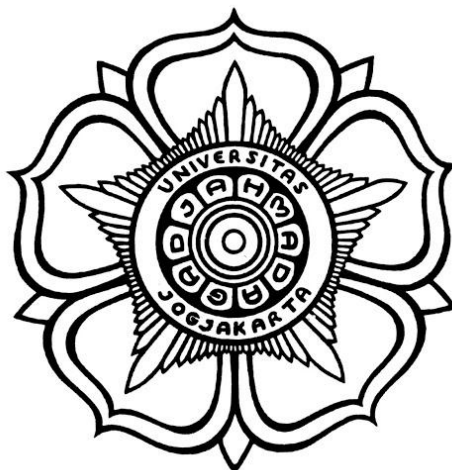
**GRADUATE PROGRAM OF CHEMISTRY
CHEMISTRY DEPARTMENT
FACULTY OF MATHEMATICS AND NATURAL SCIENCES
UNIVERSITAS GADJAH MADA
YOGYAKARTA
2017**

MASTER THESIS

**SYNTHESIS OF SULFONIC ACIDS MODIFIED SILICA COATED ON
MAGNETITE AND ENVIRONMENTAL CONTROL WITH
ORGANOSILANES FOR CATALYST OF ETHYL ACETATE HYDROLYSIS**

SINTESIS SILIKA TERMODIFIKASI ASAM SULFONAT TERLAPIS
MAGNETIT DAN KONTROL LINGKUNGAN DENGAN ORGANOSILAN
UNTUK KATALIS HIDROLISIS ETIL ASETAT

Proposed to fulfill one of the requirements to obtain a Master of Science
degree in Chemistry



ANI QOMARIYAH
15/388406/PPA/04845

**GRADUATE PROGRAM OF CHEMISTRY
CHEMISTRY DEPARTMENT
FACULTY OF MATHEMATICS AND NATURAL SCIENCES
UNIVERSITAS GADJAH MADA
YOGYAKARTA
2017**