

**SYNTHESIS AND ANTIOXIDANT PROPERTIES OF SOME
NEW DI-TERT-BUTYLPHENOL DERIVATIVES
BEARING HETEROCYCLIC RING**

RAIED MUSTAFA SHAKIR

**FACULTY OF SCIENCE
UNIVERSITY OF MALAYA
KUALA LUMPUR**

2014

**SYNTHESIS AND ANTIOXIDANT PROPERTIES OF SOME
NEW DI-*TERT*-BUTYLPHENOL DERIVATIVES
BEARING HETEROCYCLIC RING**

RAIED MUSTAFA SHAKIR

**THESIS SUBMITTED IN FULFILLMENT OF THE
REQUIREMENTS FOR THE DEGREE OF
DOCTOR OF PHILOSOPHY**

**DEPARTMENT OF CHEMISTRY
FACULTY OF SCIENCE
UNIVERSITY OF MALAYA
KUALA LUMPUR**

2014