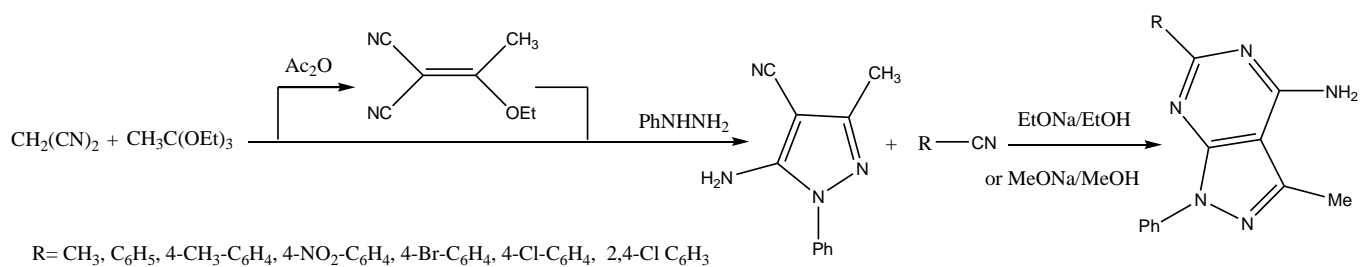


## Abstract

Many compounds in nature have pyrimidine and pyrazolopyrimidine structure, these compounds have the many biological properties, Seven new derivatives pyrazolo[3,4-*d*]pyrimidine by reaction of 5-Amino-3-methyl-1-phenyl-1*H*-pyrazolo-4-Carbonitrile with different nitriles in new method under reflux EtONa / EtOH or MeONa / MeOH synthesis been. Product structure and proposed mechanism is discussed.



Key words: heterocycle, aminopyrazoles, pyrimidines, pyrazolo[3,4-*d*]pyrimidines, nitriles



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The Thesis Submitted for the Degree of Master of Science  
(In the field of Organic Chemistry)

**Synthesis of new derivatives of pyrazolo[3,4-*d*]pyrimidine**

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