EFFECT OF ACID CATALYST ON THE SYNTHESIS OF DIPYRROMETHANE

Dissertation submitted to

Mahatma Gandhi University, Kottayam

In partial fulfillment of the requirements for the award of the degree of

Master of Science in Chemistry

By,

Ancy Antony

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Under the Guidance of

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September 2015

CERTIFICATE

This is to certify that the Project Work Titled **"EFFECT OF ACID CATALYST ON THE SYNTHESIS OF DIPYRROMETHANE"** - is a bonafide work of **Ms.Ancy Antony** carried out in partial fulfillment of the requirements for the award of the degree of *Master of Science in Chemistry* of Mahatma Gandhi University under the guidance of Dr. Ramakrishnan S.

Place: Thevara

Date: 24/09/2015

Head, Department of Chemistry
Sacred Heart College,
Thevara.

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Place: Thevara

Date: 24/09/2015

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Assistant Professor,

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3	www.studymode.com Internet Source	%4
4	www.ch.ic.ac.uk Internet Source	%4
5	Sobral, A.J.. "One-step synthesis of dipyrromethanes in water", Tetrahedron Letters, 20030512 Publication	%4
6	www.scribd.com Internet Source	%2
7	mro.massey.ac.nz	

	Internet Source	%2
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9	www.arkat-usa.org Internet Source	%2
10	Shelke, K.F.. "Ultrasound-assisted one-pot synthesis of 2,4,5-triarylimidazole derivatives catalyzed by ceric (IV) ammonium nitrate in aqueous media", Chinese Chemical Letters, 200903 Publication	%1
11	research.cm.utexas.edu Internet Source	%1
12	docplayer.net Internet Source	%1
13	Yan Zhang. "Fast and Eco-friendly Synthesis of Dipyrromethanes by H_2SO_4·SiO_2 Catalysis under Solvent-free Conditions", Chinese Journal of Chemistry, 02/2010 Publication	%1
14	www.freepatentsonline.com Internet Source	%1
15	Temelli, B.. "A novel method for the synthesis of dipyrromethanes by metal triflate catalysis",	%1

	Tetrahedron, 20061023 Publication	
16	krishikosh.egranth.ac.in Internet Source	%1
17	etd.lsu.edu Internet Source	<%1
18	Naik, R.. "Facile synthesis of meso-substituted dipyrromethanes and porphyrins using cation exchange resins", Tetrahedron, 20030324 Publication	<%1
19	Sunesh, Chozhidakath Damodharan, Midhun Chandran, George Mathai, and Youngson Choe. "Highly luminescent yellow and yellowish-green light-emitting electrochemical cells based on cationic iridium complexes with phenanthroline based ancillary ligands", Optical Materials, 2013. Publication	<%1
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