



Research Article



Phosponium Ionic liquid catalyzed Decarboxylation of an assortment of substituted Coumarin-4-aceticacid

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ARTICLE INFO

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DOI:<http://dx.doi.org/>

10.17812/IJRA.7.25(1)2020

Manuscript:

Received: 19th Jan, 2020

Accepted: 13th Feb, 2020

Published: 10th Mar, 2020

Publisher:

Global Science Publishing Group, USA

<http://www.globalsciencepg.org/>

ABSTRACT

Ionic liquids are good catalysts in various green organic modifications. Coumarins are pharmaceutically significant and medicinally potent. Herewith decarboxylation of substituted coumarin-4-carboxylicacids 1a-h into 4-methyl substituted coumarin derivatives 2a-h using [PhosIL-Cl] catalyst with recyclables herewith reported. This method is environmentally benign, under mild conditions, simple workup protocols to afford excellent yields when we compared to conventional method. The products 2a-h were reported in Scheme-1 and Table-1&2 and confirmed by measuring melting points and ¹H and ¹³C NMR spectra under deuterated chloroform as the NMR solvent. Mass of the synthesized coumarin derivatives are recorded as ESI-MS.

Keywords: Coumarin-4-carboxylic acid, phosponium ionic liquid, decarboxylation.

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Month: January - March

Volume – 7, Issue – 25, Page No's:1501-1504

Subject Stream: Chemistry

Paper Communication: Author Direct**Paper Reference Id:** IJRA-2020: 7(25)1501-1504