**Paper Title (16 Bold)**

Author1,a,\* Author2,a Author3,b Author4c (9)

*a Address1 (8, italic)*

*b Address2*

*c Address3*

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# 1.0 INTRODUCTION (11 BOLD)

The introduction of the paper should explain the nature of the problem, previous work, purpose, and the contribution of the paper. The contents of each section may be provided to understand easily about the paper. (10)

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Table captions appear centered above the table in upper and lower case letters. When referring to a table in the text, no abbreviation is used and "Table" is capitalized. (10)

## Table 1 Catalytic Alkylation of Resorcinol to 4-tert-butyl Resorcinol and 4,6-di tert-butyl Resorcinol a

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Entry | Catalysts | Conversion / % | Product yield / mmol | Selectivity / % | Ratio of Lewis acid to Brönsted acid b |
|  |  |  |  | 4-tert butyl resorcinol | 4,6-di tert-butyl resorcinol |
| 1 | MA | 0 | 0 | 0 | 0 | 0 |
| 2 | 3%Ga-BEA | 38.0 | 15.6 | 97.4 | 2.6 | 0.5 |
| 3 | 8%Ga-BEA | 54.4 | 21.7 | 95.8 | 4.2 | 0.7 |
| 4 | 10%Ga-BEA | 59.1 | 23.6 | 100 | 0 | 1.0 |
| 5 | 25%Ga-BEA | 32.2 | 12.9 | 100 | 0 | 1.5 |
| 6 | H2SO4 c | 6.5 | 2.6 | 96.0 | 4.0 | contain only Brönsted acid |
| 7 | MA + H2SO4d | 6.0 | 2.4 | 96.0 | 4.0 | 1.0 |

a All reactions were carried out at 80 °C for 8 h with resorcinol (40 mmol), MTBE (60 mmol) and catalyst (0.2 g) with vigorous stirring.

b The ratio of Lewis acid to Brönsted acid is calculated by using the peak area of peaks at wavenumber of 1540 cm-1 and 1450 cm-1 for Brönsted and Lewis acids, respectively (see Fig. 1).

c The amount of H2SO4 

d The MA in a solution containing H2SO4. The amount of MA and H2SO4 are similar as entries 1 and 6, respectively.

# 5.0 CONCLUSION (11 BOLD)

A conclusion section must be included and should indicate clearly the advantages, limitations, and possible applications of the paper. Although a conclusion may review the main points of the paper, do not replicate the abstract as the conclusion. A conclusion might elaborate on the importance of the work or suggest applications and extensions. (10)

# ACKNOWLEDGEMENTS (11 BOLD)

An acknowledgement section may be presented after the conclusion, if desired. (9)

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