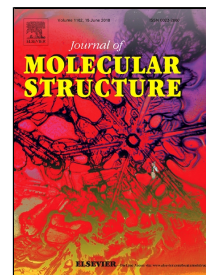


Accepted Manuscript

Hydrothermal synthesis of Co^{II} chiral inorganic-organic complex: Structural, thermal and catalytic evaluation

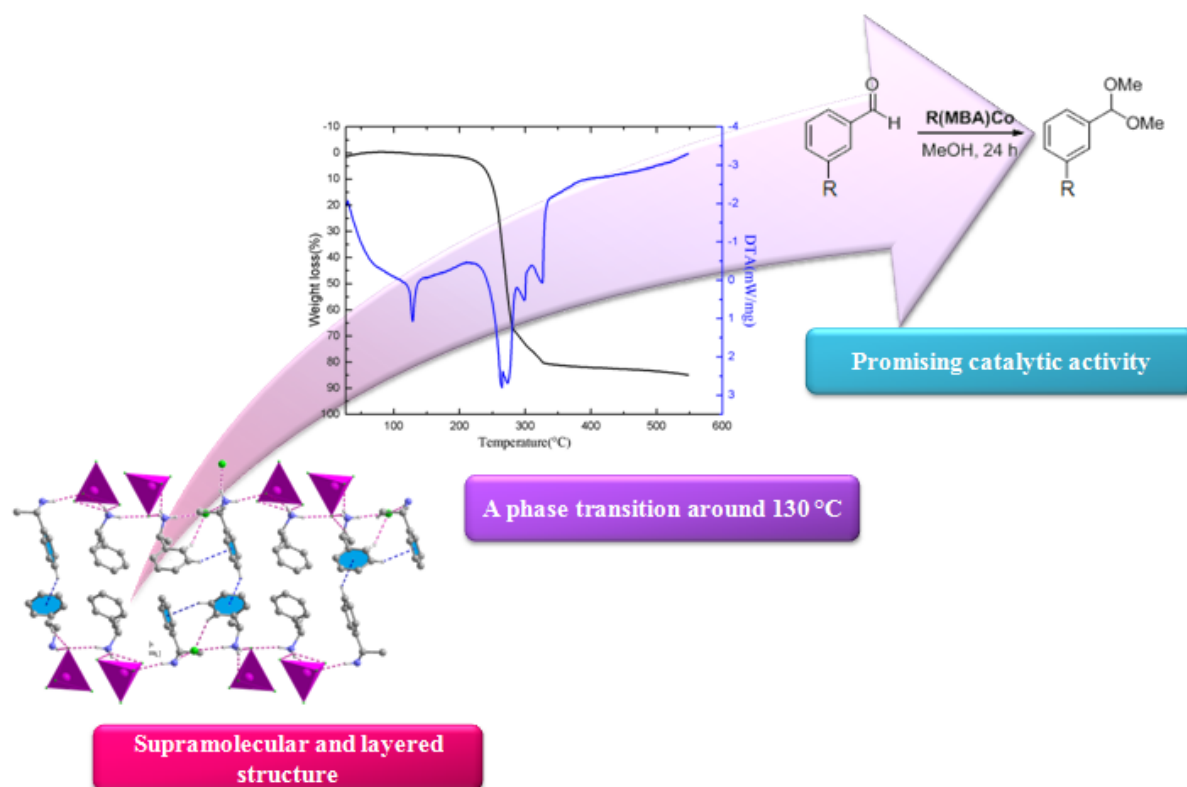


Assila Maatar Ben Salah, Raquel P. Herrera, Houcine Naïli

PII: S0022-2860(18)30433-2
DOI: 10.1016/j.molstruc.2018.04.002
Reference: MOLSTR 25075
To appear in: *Journal of Molecular Structure*
Received Date: 22 December 2017
Revised Date: 29 March 2018
Accepted Date: 02 April 2018

Please cite this article as: Assila Maatar Ben Salah, Raquel P. Herrera, Houcine Naïli, Hydrothermal synthesis of Co^{II} chiral inorganic-organic complex: Structural, thermal and catalytic evaluation, *Journal of Molecular Structure* (2018), doi: 10.1016/j.molstruc.2018.04.002

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Graphical abstract**Highlights**

- New chiral and non-centrosymmetric single crystals of $[R-(C_8H_{12}N)_3][CoCl_4]Cl$ have been successfully synthesized and structurally characterized.
- C/N–H \cdots Cl hydrogen bonds and C...H– π interactions are the driving forces in generating a three-dimensional stable supramolecular network.
- Thermal analysis discloses a phase transition at the temperature 130°C.
- The Co complex is employed as suitable catalyst for the acetalization reaction of aldehydes under mild conditions.

Download English Version:

<https://daneshyari.com/en/article/7807310>

Download Persian Version:

<https://daneshyari.com/article/7807310>

[Daneshyari.com](https://daneshyari.com)