

# Furfural: A Platform Molecule for the Synthesis of Renewable Chemicals and Fuels <sup>†</sup>

Rahul V Prajapati <sup>1,\*</sup>, Ayush Singh <sup>1</sup>, Bhavesh Prajapati <sup>1</sup>, Dhrumit Joshi <sup>1</sup>, Jay Rana <sup>1</sup>, Vishal Padhiyaar <sup>1</sup>

<sup>1</sup> Government Engineering College, Valsad-396001;

\* Correspondence: rahulraj723@gmail.com (R.V.P.);

<sup>†</sup> Presented at International e-Conference on Green Chemistry and Engineering towards Sustainable Development – An Industrial Perspective (16-18 June 2021), Surat, Gujarat, India

Received: 5.06.2021; Revised: 10.06.2021; Accepted: 12.06.2021; Published: 15.06.2021

**Abstract:** Furfural has been valued as the most promising chemical platform molecule produced from cellulose biomass. The new catalytic process was investigated for the synthesis of future transportation fuels and chemicals under reaction conditions. More than 300 kTon furfural is produced over the world. Various research has been studied for different value-added chemicals, biofuels, and additives from the furfural over heterogeneous catalysts in the past decade. Over study focuses only on commercialized products that have a maximum potential for commercialization of products derived from furfural to overcome the current demands on the greener way. The various challenges, reaction conditions, and their mechanisms are also highlighted.

**Keywords:** furfural; heterogeneous catalysts; reaction parameters.

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## Funding

Self-supported.

## Acknowledgments

This research has no acknowledgment.

## Conflicts of Interest

The authors declare no conflict of interest.