

Electronic Supplementary Information

Synthesis of C₁₅ and C₁₀ fuel precursors with cyclopentanone and furfural derived from hemicellulose

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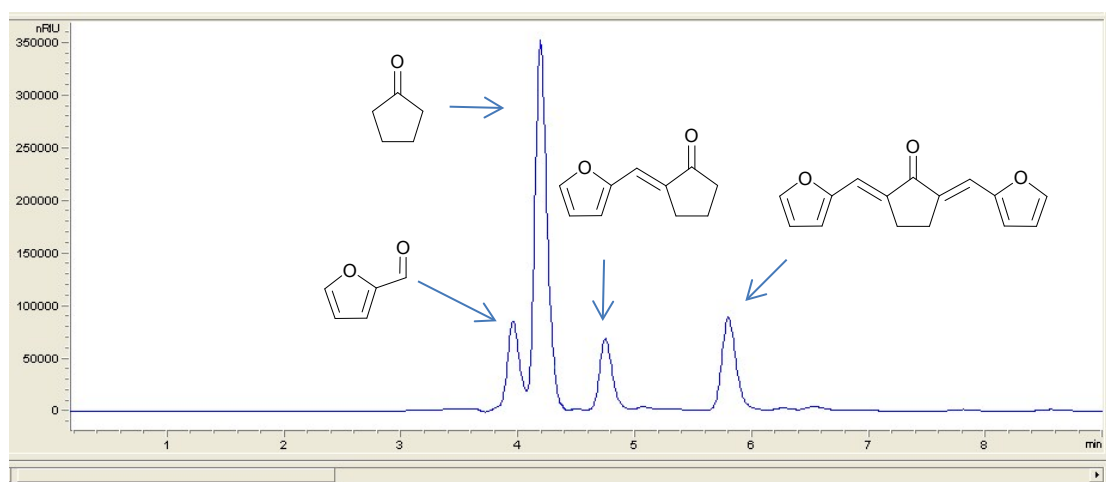


Fig 1. HPLC chromatograms of the products from the reaction of cyclopentanone and furfural over nafion catalyst. Reaction conditions: 333 K, 6 h; 1.92 g furfural, 5.04 g cyclopentanone, 0.4 g Raney metal.

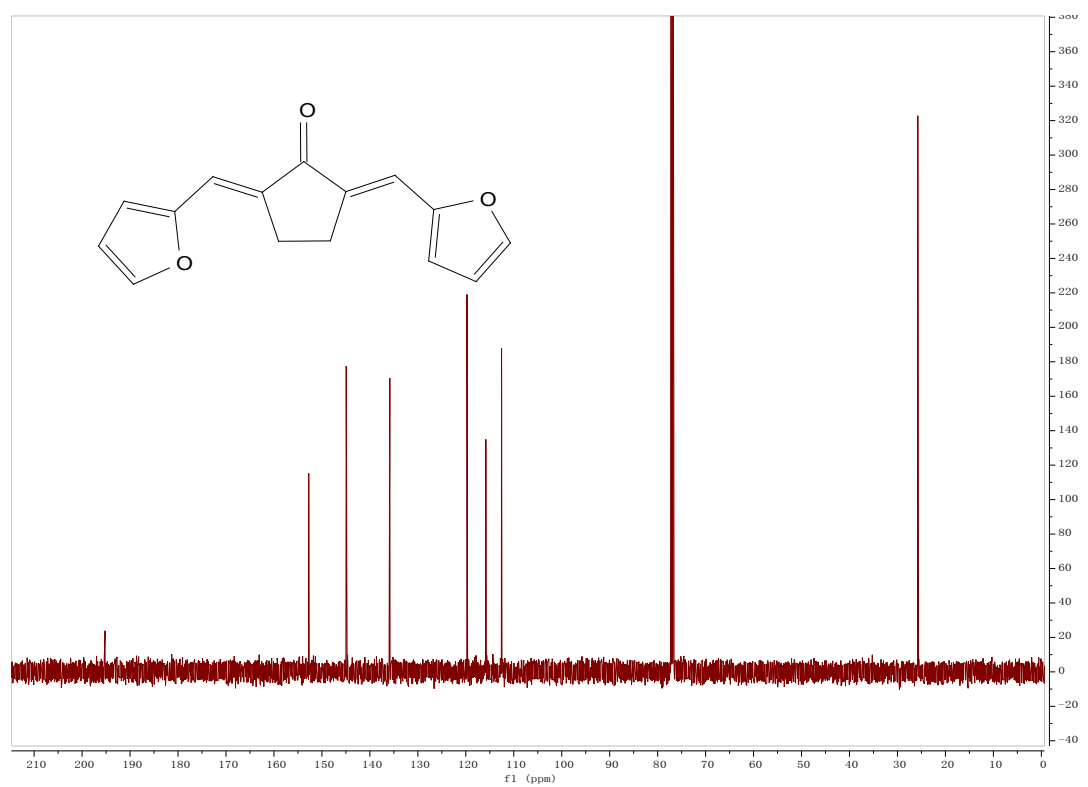


Fig 2. ^1H and ^{13}C NMR spectra of 2,5-bis (2-furylmethylidene) cyclopentan- 1-one obtained from the reaction of cyclopentanone and furfural.

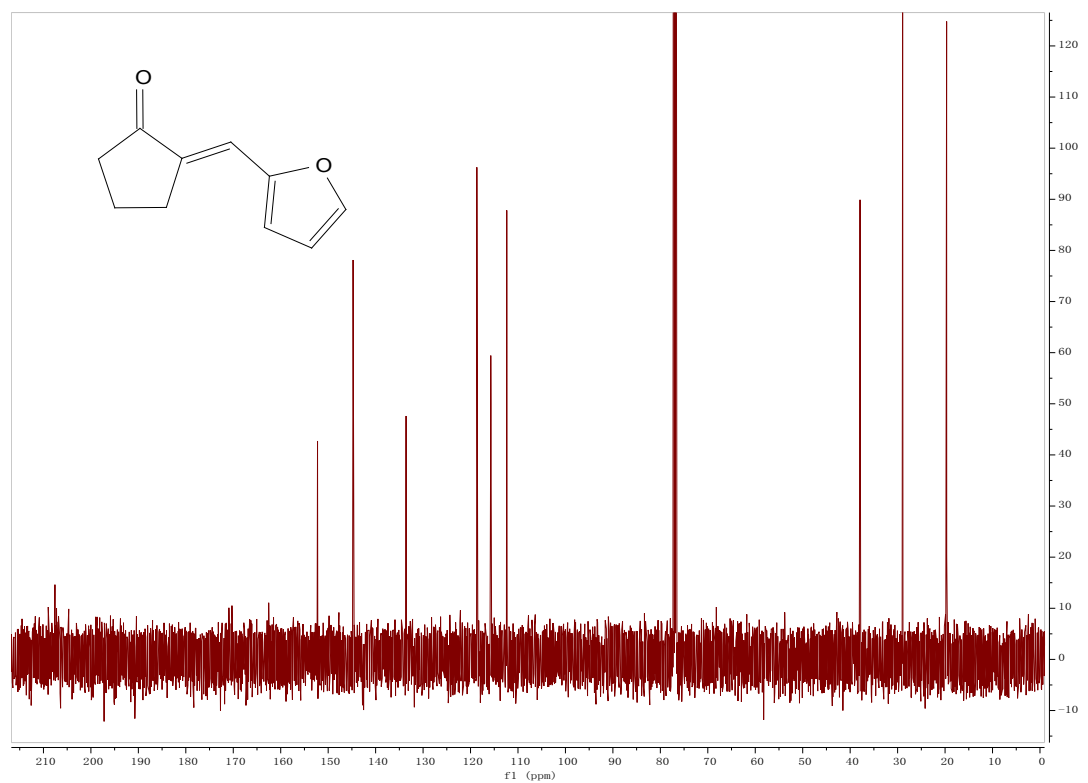
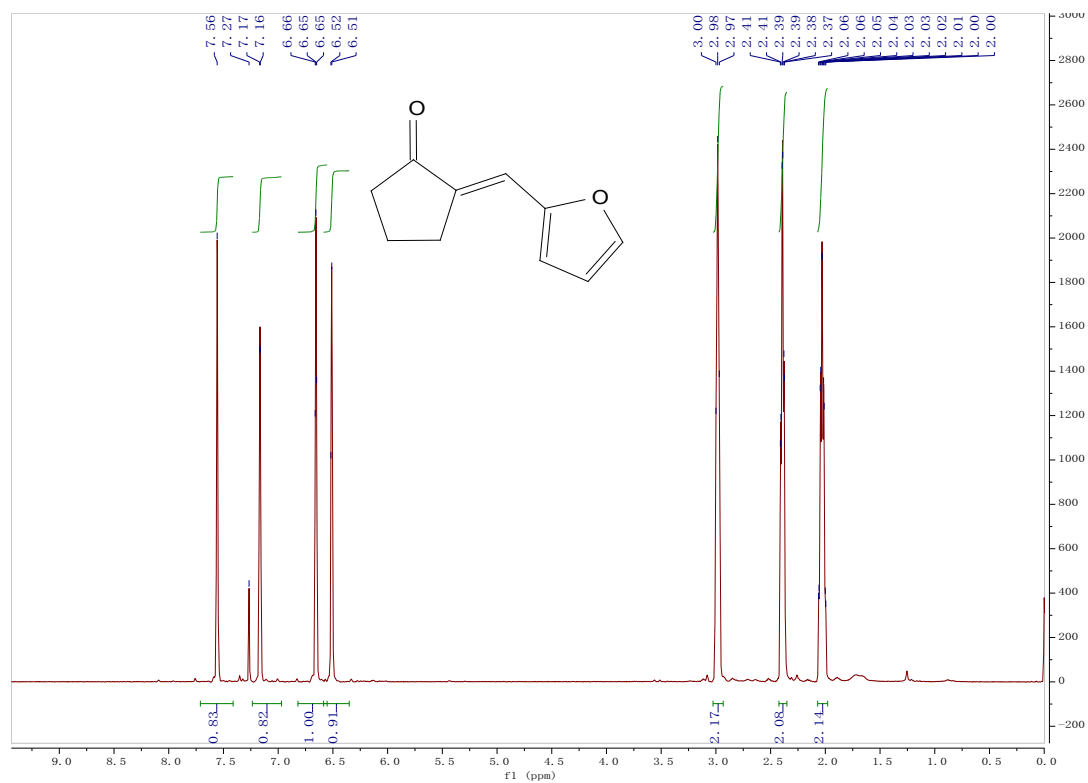


Fig 3. ¹H and ¹³C NMR spectra of 2-(2-furylmethylidene) cyclopentan-1-one obtained from the reaction of cyclopentanone and furfural.