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**Combined dehydration/(transfer)-hydrogenation of C6-sugars (D-glucose and D-fructose) to gamma-valerolactone using ruthenium catalysts**

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*Published in:*  
Green Chemistry

*DOI:*  
[10.1039/b904693c](https://doi.org/10.1039/b904693c)

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*Document Version*  
Publisher's PDF, also known as Version of record

*Publication date:*  
2009

[Link to publication in University of Groningen/UMCG research database](#)

*Citation for published version (APA):*

Heeres, H., Handana, R., Chunai, D., Rasrendra, C. B., Girisuta, B., & Heeres, H. J. (2009). Combined dehydration/(transfer)-hydrogenation of C6-sugars (D-glucose and D-fructose) to gamma-valerolactone using ruthenium catalysts. *Green Chemistry*, 11(8), 1247-1255. <https://doi.org/10.1039/b904693c>

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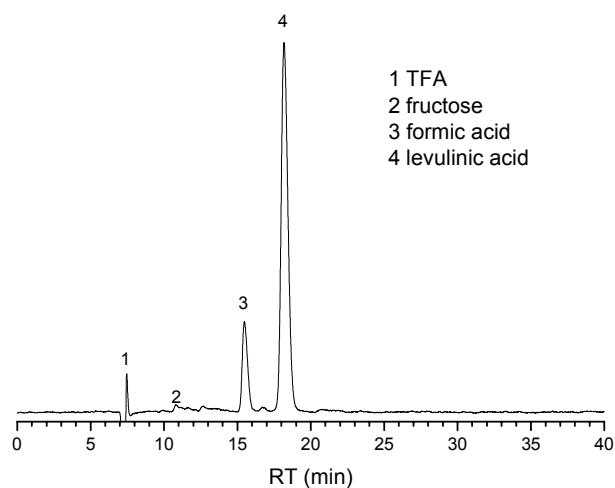
## Supplementary information to "Combined Dehydration/(transfer)-Hydrogenation of C6-sugars (D-glucose and D-fructose) to $\gamma$ -valerolactone using ruthenium catalysts "

Hans Heeres, Ratna Handana, Dai Chunai, Carolus Borromeus Rasrendra, Buana Girisuta, Hero Jan Heeres\*

Selected HPLC chromatograms of reaction products:

### 1. Conversion of D-Fructose to LA using TFA as the catalyst

0.5 M Fructose, 0.5 M TFA, T=180C, 10 mins



### 2. Conversion of D-Fructose to GVL using hydrogen, TFA as the acid and Ru/C as the hydrogenation catalyst (Table 2, entry 6)

HPLC chromatogram of entry 6, table 2  
(D-Fructose and hydrogen)

1 TFA  
2 fructose  
3 formic acid  
4 acetic acid  
5 levulinic acid  
6 GVL

