Supplementary Documents

Kinetic Study of Pd Promoting Effect on Cu/ZnO/Al_2O_3 Catalyst for Glycerol Hydrogenolysis to Produce 1,2-Propanediol at Low Hydrogen Pressure

Yuanqing Liu, Garry L. Rempel [†] and Flora T. T. Ng *

Department of Chemical Engineering, University of Waterloo, 200 University Ave. W., Waterloo, ON N2L3G1, Canada; y289liu@uwaterloo.ca (Y.L.); grempel@uwaterloo.ca (G.L.R.)
* Correspondence: fttng@uwaterloo.ca
[†] Deceased 2 November 2018, this paper is dedicated to the memory of Professor Garry L. Rempel.

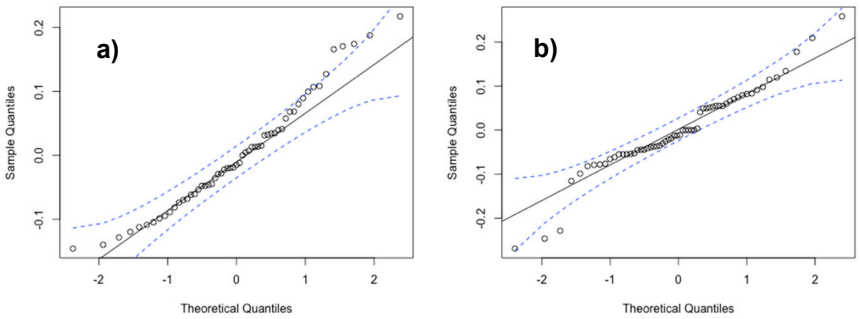

Figure S1 Normal probability plots of residuals for acetol hydrogenation reactions using two catalysts: a) CZA catalyst; b) 2Pd/CZA catalyst. Dotted curve: 95% confidence interval.

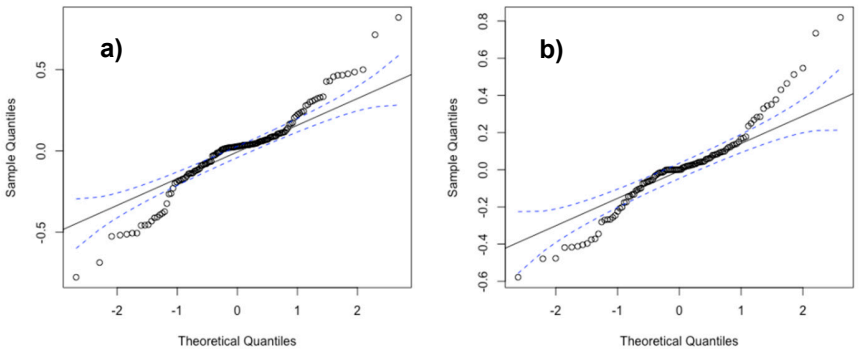

Figure S2. Normal probability plots of residuals for glycerol hydrogenolysis reactions using two catalysts: **a)** CZA catalyst; **b)** 2Pd/CZA catalyst. Dotted curve: 95% confidence interval.

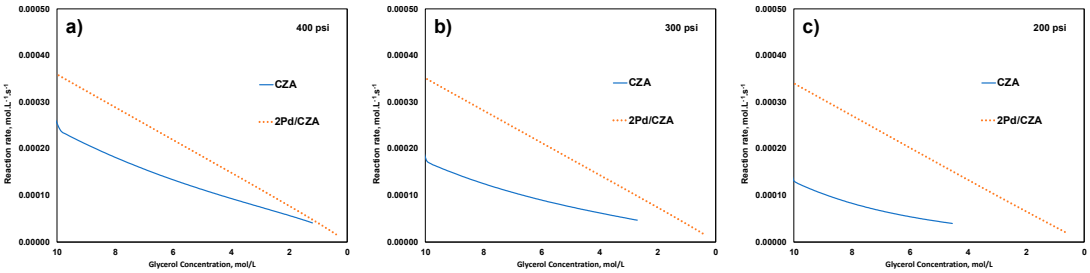

Figure S3. Effect of Pd on the glycerol conversion rates over the reaction time at different hydrogen pressures. Other reaction conditions: 200 °C, 500 RPM, 80 wt% aqueous glycerol, 5 wt% catalyst with respect to the weight of glycerol.