Electronic Supplementary Information

Origin of catalyst deactivation in atmospheric hydrogenolysis of *m*-cresol over Fe/HBeta

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Fig. S1. TGA curve of the spent catalysts used in different reactant systems at 350 °C (WHSV, 2 h⁻¹; time on stream: 60 min; pressure, 1 atm)



Fig. S2. TGA curve of the spent catalysts used in different reactant systems at 450 °C (WHSV, 2 h⁻¹; time on stream: 60 min; pressure, 1 atm)